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AND INNOVATION FOR SUSTAINABLE ENERGY 

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CATALOGUE OF EXISTING GOOD PRACTICE EXAMPLES OF PROGRAMMES AND INTERVENTIONS

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1 SUMMARY OF ENERGISE

ENERGISE is an innovative pan-European research initiative to achieve a greater scientific understanding of the social and cultural influences on energy consumption. Funded under the EU Horizon 2020 program for three years (2016-2019), ENERGISE develops, tests and assesses options for a bottom-up transformation of energy use in households and communities across Europe. ENERGISE adopts a Living Labs approach to directly observe existing practices and cultures related to energy consumption in a real-world setting and to test both household and community-level initiatives to reduce energy consumption. A comprehensive review and classification of household and community energy initiatives from 30 European countries provides the foundation for the development of two prototype 'ENERGISE Living Labs' designed to capture dynamics of individual and collective energy consumption. Data collection before, during and after the roll-out of 16 living labs to eight partner countries will be instrumental in contributing to the design and assessment of future energy consumption initiatives across Europe.

1.2 SUMMARY OF OBJECTIVES

ENERGISE's primary objectives are to

- Move beyond existing sustainable consumption research by developing an innovative theoretical framework that fuses social practice theory and energy cultures approaches,
- Assess and compare the impact of European energy consumption reduction initiatives,
- Advance the use of Living Lab approaches for researching and transforming energy cultures,
- Produce new research-led insights into the role of routines and ruptures in shifting energy use towards greater sustainability,
- Enhance multi-way engagement with actors from society, politics and industry and effectively transfer ENERGISE's outputs to further the implementation of the European Energy Union.

The ENERGISE consortium includes ten research partners (universities, research institutes, enterprises and NGOs) from Bulgaria, Denmark, Finland, Germany, Hungary, Ireland, Slovenia, Switzerland, the Netherlands and the United Kingdom.

2 INTRODUCTION TO DELIVERABLE D2.1

This document (D2.1) provides an overview of the extensive data that has been collected on sustainable energy consumption initiatives as part of Work Package 2 (WP2) in ENERGISE. Below is given a general introduction to the scope and objectives of WP2 specifically, as well as a short introduction as to how sustainable energy consumption initiatives are defined in ENERGISE. In section 3, a full list is provided of 1000+ sustainable energy consumption initiatives that have been identified throughout Europe.

2.1 WP2: TYPOLOGIES OF ENERGY INITIATIVES

ENERGISE WP2 is a systematic criteria-guided review and classification of existing sustainable energy consumption initiatives from 30 European countries (EU-28, Switzerland, and Norway), which will provide a comprehensive European database of energy initiatives involving households, and a subsequent development of typologies of sustainable energy consumption initiatives. This extensive synthesizing work will guide the selection of Living Lab design elements for ENERGISE and future energy consumption research, policy and practice.

This is done in order to

- Construct innovative typologies of sustainable energy consumption initiatives that can inform further research and action.
- Identify key success factors and related indicators, focusing on individual-level, collective, organizational, institutional and societal aspects of energy consumption, which will inform subsequent WP 3 (Designing Living Labs), WP 4 (ENERGISE Living Labs) and WP 5 (Capturing Energy Cultures).
- Progress the goals of the European Energy Union by providing solid baseline data corresponding to the 5 key dimensions¹ of the Union and creating a publicly archived open access dataset of sustainable energy initiatives across 30 countries in Europe.

2.2 SUSTAINABLE ENERGY CONSUMPTION INITIATIVES (SECIS)

In ENERGISE, ‘sustainable energy consumption initiatives’ (SECIs) are defined as activities that deal with reducing energy related CO₂ emissions from households. This can either be in terms of

¹ The 5 Key Dimensions of the Union are: 1) Energy Security, solidarity and trust, 2) Fully integrated European energy market, 3) Energy Efficiency contributing to moderation of energy demand, 4) Decarbonising the economy and 5) Research, Innovation and competitiveness

- 1) reducing the actual energy consumption,
- 2) substituting fossil fuels with renewable energy sources.

The SECI mapped, generally include an element of *active involvement of households*. This is due to the fact that the data collected has to inspire the development of Living Labs involving households. The definition of a SECI is intentionally kept broad in order to make room for empirical enquiry, such as a large variety in empirical examples seeking to achieve the same goals. However, a few guidelines have been developed in order to identify what a SECI *cannot* be as well as what a SECI *can* be.

SECI collected by ENERGISE *are not* initiatives that solely deal with reductions in energy demand or carbon emissions within companies or at the energy suppliers themselves, even if those initiatives contribute to reductions in energy use within households as a result of buying the products or services (e.g. oil, gas, electricity, food, ICT etc). Initiatives led by companies or energy suppliers that actively target and mobilize households may, however, be included.

SECI collected by ENERGISE *can* include households as actors in a number of different ways. The households may be viewed as consumers (by buying products and services); prosumers (for instance by (co-)producing renewable energy); innovators (by using products in innovative ways creating other/new kinds of energy demand), and/or they can be viewed as active participants in various groups relating to sustainable energy consumption (e.g. through Facebook groups or NGOs). Households may also be investors in sustainable consumption initiatives and renewable energy schemes. Households play different roles depending on the different practices they engage in, and a number of different roles may be relevant for ENERGISE.

For the ENERGISE Living Labs (ELLs), the differences between individual and collective aspects of initiatives are particularly important. In looking for examples of collective agency in SECI, initiatives that have been promoted as part of a spatial community or a community of interest have been of importance in this respect.

2.3 SYSTEMICALLY IDENTIFYING AND CATALOGUING SECIS

In order to systematically identify and catalogue diverse examples of SECI across 30 European countries, a theoretically inspired criteria-guided grid has been developed to assess aspects of SECI related to size, scale, scope, objectives, outputs, medium- and type of interventions, as well as types of energy consumption targeted, the role of the households and potential types of changes – categories that are all pertinent to the scope and objectives of ENERGISE. The categories of the grid are informed by ENERGISE's conceptual framework developed in WP1 (Conceptual Framework), which understands energy demand (and cultural differences in energy demand) as dependent on the timing, location, context,

materiality and performance of a range of interconnected social practices. The theoretical and methodological underpinning of the categories of the grid is further explained in the ENERGISE D2.2 Report.

1000+ SECI have been identified across 30 European countries, and together they comprise a multifaceted overview of the vast variety in scopes, scales and objectives, types and mediums of interventions and outputs of SECI across Europe. The catalogue provides an extensive and comprehensive overview, but should not be regarded as exhaustive.

2.4 READING THE CATALOGUE

All 1067 identified SECI will be showcased in the following section. The SECI are organized according to national origin (or national relation for the cross-national SECI) and will be identified by name, scale, descriptions and objectives.

The scale will show whether the SECI is locally, regionally, nationally or cross-nationally situated. A significant share of the identified SECI are cross-national, meaning that they have been implemented in more than one country, and may therefore appear in more than one of the country-specific overviews below.

Although ENERGISE employs a practice-theoretical understanding of energy consumption and change, the descriptions and objectives of the collected SECI showcased in this document do not necessarily represent a practice-theoretical understanding of energy consumption. This is because the descriptions are based on original SECI descriptions that may follow other framings and (theoretical) understandings reflected by actors involved in the SECI.

The aim and intention of the catalogue below is primarily to highlight the variety of *existing* SECI from which ENERGISE *will take inspiration* in terms of number of aspects, such as; methods of intervention, types of intervention and medium of intervention; the outcomes in terms of targeting particular kinds of energy-related consumption; as well as outputs and types of changes that have come about. These aspects, and the reasons for exploring them, are further explained in the D2.2 Report. ENERGISE will analyse, evaluate and typologise the SECI in relation to these aspects and discuss the scope and relevance of the identified methods, targets and outcomes in relation to a practice-theoretical understanding of consumption and change.

These analyses and evaluations will be documented in ENERGISE D2.3, D2.4 and D2.6 reports and outputs.

3 CATALOGUE: DIVERSE SECIS ACROSS EUROPE

3.1 ENERGISE PARTNER COUNTRIES

BULGARIA (BG – 45)

Name	Scale	Description	Objectives
Fiesta - Burgas	CrossNational - local	Fiesta aims to cut down household energy consumption and related emissions, by fostering investments in production from renewable energy sources and purchase of more energy-efficient heating and cooling systems, and by conducting energy audits. Specially targeted are households of families with children and vulnerable consumers.	Reduction of home energy consumption (especially heating and cooling)
Fiesta - Vratsa	CrossNational - local	Fiesta aims to cut down household energy consumption and related emissions, by fostering investments in production from renewable energy sources and purchase of more energy-efficient heating and cooling systems, and by conducting energy audits. Specially targeted are households of families with children and vulnerable consumers.	Reduction of home energy consumption (especially heating and cooling)
Fiesta Pazardzhik	- CrossNational - local	Fiesta aims to cut down household energy consumption and related emissions, by fostering investments in production from renewable energy sources and purchase of more energy-efficient heating and cooling systems, and by conducting energy audits. Specially targeted are households of families with children and vulnerable consumers.	Reduction of home energy consumption (especially heating and cooling)
European Citizens Climate Cup (ECCC)	CrossNational	ECCC is a competition of householders within and between countries with the target to achieve the highest energy savings. The participating households use a web tool for their energy management – the interactive Energy Savings Account (ESA). ESA collects and assesses all consumption and cost data of meter readings and energy bills. Households also receive individualized emails and newsletters with tips on improving their energy efficiency.	Lowering electricity consumption and energy consumption for heating.

POWERHOUSE NEARLY ZERO CHALLENGE (POWER HOUSE NZC)	CrossNational	This initiative, run by Housing Europe in partnership with 13 housing federations across the EU, aimed to boost the number of nearly-Zero Energy homes across the continent by sharing ideas and expertise between Public, Cooperative and Social Housing professionals. It has provided a great opportunity for housing providers to share learnings, gather accurate performance data and make progress on energy efficiency throughout Europe.	building capacity and confidence among Europe's social, cooperative and public housing providers ahead of NZEB obligations; mainstreaming effective solutions; showcasing exemplary financing and organisational solutions used to reach nearly zero standards in existing housing in divided ownership
DESIREE GAS (Demand Side Residential Energy Efficiency Through Gas Distribution Companies In Bulgaria)	National	Grant support for providing a dedicated and effective mechanism to support the gasification of Bulgarian households. Installation of high-efficiency boilers, switching from fuels like coal, biomass and oil to natural gas.	Energy savings, reduction of GHG emissions, increased energy efficiency in the heating and hot water supply.
Solar roof	Local	120 solar panels with total capacity of 28.2 KWp were installed on the roof of the building. Purchase and installation of panels took two weeks, obtaining the considerable number of different permits took 18 months.	Producing the electricity for the building and selling the surplus into the grid
3e-HOUSES	CrossNational	Design, implementation and dissemination of 4 demonstration pilots, based on the integration of ICT technologies such as innovative control and monitoring systems, as well as Renewable Energies (RES) within social housing. This integration is focused on providing real time monitoring and control of energy consumption by providing information of how and where users consume energy.	Integration of customers in the energy system using Information Technology (ICT) allowing them to develop and improve their relation not only with the utility companies, but also with the power grid; achieving centralised control over the energy consuming and producing systems, as well as awareness-raising amongst users regarding the energy efficiency of the buildings they are using

STACCATO project	CrossNational	<p>"Sustainable Technologies And Combined Community Approaches Take Off" (STACCATO) is a FP6 project that provided opportunity for three European capital cities – Amsterdam, Budapest and Sofia – to demonstrate sustainable energy concepts in residential areas. As a result of the project, the three city districts involved integrated large solar thermal systems in their energy supply, their heat distribution based energy infrastructure was modernised and the envelopes of many buildings were improved. All these ensured healthy indoor climate and low energy bills.</p>	<p>The project aimed to achieve more than 50% energy savings, to improve indoor climate, to integrate renewable energy into energy supplies and to prepare district heating for future implementation of more renewables and efficient heat supplies. The project also intended to build capacity for follow up projects.</p>
Aha!Car platform	National	<p>Aha!Car is a web platform for carpooling. It creates a social network among its users. It is designed so that neither the drivers nor passengers receive financial gain but rather distribute the costs of travel amongst themselves. The platform is completely free to use for its customers.</p>	<p>Creating a positive effect on the environment by car-sharing</p>
National Programme for Energy Efficiency of Residential Buildings	National	<p>The National Programme for Energy Efficiency of Residential Buildings was adopted by the government of Bulgaria in 2015. It provides grants for renovation of multifamily residential buildings. The main goal is to ensure better living conditions for citizens, as well as thermal comfort and higher quality of living environment. All these are achieved through the implementation of energy efficiency measures.</p>	<p>Through the implementation of energy efficiency measures the programme aims to increase the energy efficiency rate of multifamily residential buildings, to reduce energy costs, to extend the life cycle of buildings, and to provide living conditions in accordance with sustainability criteria.</p>
Residential Energy Efficiency Credit Line (REECL)	National	<p>The REECL is a credit facility that gives Bulgarian households the opportunity to benefit from energy efficiency home improvements and thus to reduce their energy bills and consumption. It provides loans and investment incentives through local participating banks. Borrowers can get a loan that pays them 10-20% of their energy efficiency investment back.</p>	<p>The aim of REECL is to give individuals, households, associations of apartment owners, etc. across Bulgaria an opportunity to benefit from energy efficiency home improvements by providing loans and incentives grants through local participating banks.</p>

Thermal insulation of a residential building through Energy Efficiency and Renewable Sources Fund (EERSF)	National	Residential building with 24 households was insulated and repaired with funding from EERSF and a bank loan. EERSF is a government fund which provides technical assistance to enterprises, municipalities and private individuals in developing energy efficiency investment projects and then assists their financing, co-financing or plays the role of guarantor in front of other financing institutions.	To make the building more energy efficient and lower the energy costs of the residents.
REACH	CrossNational	REACH fosters rational use of energy by triggering action in fuel poor households (vulnerable consumers): it provides tailor-made energy advice and further support, empowering them to change their energy use habits. To do this, it trains and engages teachers and students from vocational schools; it brings institutional capacity-building for decision-makers at local and national/EU level; and secures exchange of experience and know-how through workshops	Empowering energy poor households to take actions to save energy and change their habits, and establishing energy poverty as an issue that demands structural solutions at local, national and EU level.
ACHIEVE	CrossNational	Contributing to practical (energy uses and behaviours) and structural (retrofitting buildings) solutions for reduction of fuel poverty in Europe. In ACHIEVE, long-term unemployed people, volunteers or students are mobilized and trained to develop a large-scale energy advice service (based on home visits) towards low-income households facing difficulties with their energy bills.	Understanding vulnerable consumers' energy consumption, bills and habits; distributing and installing a set of free energy and water saving devices, and giving advice to the households on how to implement further practical measures for saving energy in general; analyse and propose longer-terms solutions for lowering energy consumption
EnerGbg	National	Household electricity calculator that allows for the estimation of specific appliance energy usage and provides tips and guidelines regarding overall energy efficiency, ways for reducing energy bills and changing energy behaviour, advice on energy efficient construction, labelling, financing models, and environmental protection	Sharing tips and good practices on energy savings and energy efficient living at home, practical steps for calculating annual electricity consumption and costs and facilitating energy-efficient behaviour
Warmth for the Children	Local	Retrofitting and thermal insulation of facility for social rehabilitation and integration of children with disabilities. All the work was done by volunteers – parents and relatives of children using the services of the facility and by the employees, while materials were purchased through a micro-grant.	Providing better conditions and comfort to the children and lowering the heating-related expenses of the facility.

SHELTER	Local	SHELTER renovation project includes the execution of energy efficient renovation measures such as insulation of the building envelope, improvement of the common parts and installation of solar collectors. Building inspections and energy audits are executed prior to the energy efficient renovation works. The preliminary energy audits estimate that solar collectors will produce 50% of the needed hot water.	increased energy efficient performance of the renovated buildings and a partial shift to renewable energy (solar collectors for domestic hot water)
DOMINO	CrossNational	The DOMINO project will nudge households towards more energy efficient behaviour and will connect participating households in their region to nurture peer-learning and strengthen social bonds. To this end, a variety of behavioural interventions will be combined in a smart plug challenge, whereby teams will be provided with smart plug equipment and a smartphone app allowing them to monitor and control their electricity consumption	By combining feedback, prompts, goal setting, peer comparison, rewards and other behavioural levers, the project will lead to an annual reduction in primary energy consumption. Throughout the project, data will be generated that allows looking into energy consumption patterns of households and their appliances
DEHEMS	CrossNational	DEHEMS aimed to extend the state of the art in intelligent meters, moving beyond energy 'input' models that monitor the levels of energy being used to an 'energy performance model' that also looks at the way in which the energy is used.	DEHEMS' aim was to improve the existing monitoring approach to levels of energy being used by households, with an overall aim of reducing CO2 emissions across Europe
Energy Neighbourhoods 2 (EN2)	CrossNational	EN2 was the successor of the IEE project Energy Neighborhood and built on the idea of an energy saving bet between cities and citizens. The approach combined a competition on local, national and EU level with measures, such as training for households and municipalities, consumption monitoring and local climate campaigns.	Reduced energy consumption in private households and raised awareness for energy efficient products and climate protection policies
Union of Homeowners Associations	Local	Union of Homeowners Associations is an independent non-profit entity protecting the interests of the homeowners in apartment buildings. Its main goals are to achieve high quality of living environment and to strengthen and develop the principles of civil society.	One of the objectives of the association is to make homeowners aware of the impact from the implementation of energy efficiency measures (diminished household expenses, increased quality of life and achieved better external appearance of buildings).

REMODECE	CrossNational	REMODECE contributed to an increased understanding of existing and impending electricity use by European households resulting from different types of equipment, consumers' lifestyles, and comfort levels. The project evaluated how much electricity could be saved by the use of the most energy efficient appliances, by adopting a suitable behaviour and by the reduction of standby consumption.	Estimating the energy savings potential in electricity consumption of the EU residential sector and providing a set of policy and practical recommendations for different types of equipment (i.e. Electric Appliance Energy Guides)
BAMBINI	CrossNational	The BAMBINI project targets the mobility behaviour of very young children and their parents as well as the attitudes of decision makers and the toy industry to challenge the car culture prevalent in Europe. The BAMBINI concept integrates soft mobility modes into the everyday life of young children and their parents by using a playful approach via toys and books.	Changing the current mobility behaviour of the population that favours car use and addressing key social context (conditioning) factors and players in bringing about a shift in energy efficient and sustainable transport
ENERLIN	CrossNational	ENERLIN was focused on the better promotion of Compact Fluorescent Lamps for residential use. The project worked to quantify the importance of residential light in Europe (for energy consumption as well as for the market itself) and identify factors for successful market transformation	The overall project objective was to substantially increase the efficiency of indoor residential lighting in a number of EU Member States, through increased applying of CFLs in this sector.
European Dimensions of Distant Heating in Sofia	Local	The project promotes good European practices in the area of distant heating and tries to implement them in Sofia in order to increase the comfort of living while reducing the energy consummation. It also tries to encourage active participation of citizens in the Sofia municipality on the issues dealing with distant heating.	Increase the capacity of consumers to take informed decisions regarding the distant heating of their homes and decrease the energy consumption without putting their comfort at risk.
FRESH	CrossNational	FRESH (Financing energy Refurbishment for Social Housing) was a project supported by the Intelligent Energy Europe programme that aimed at demonstrating to Social Housing Operators that Energy Performance Contract (EPC) can be used for low energy refurbishment of social housing on a large scale. FRESH partners identified pilot sites and worked out the legal, financial and technical framework for EPC's in social housing.	The main objective of this project was to test EPC in four countries (France, UK, Italy and Bulgaria) and to develop generic tools for the broader dissemination of EPC in social housings.

To save our common home - the Earth	Local	Project for ecology education of children in kindergartens (age 5-6), focusing on the issue of the preservation of nature through saving the natural resources and the energy that we use in our daily activities. A richly illustrated educational book and interactive theater performances used to teach children how to save water and electricity through small gestures in children's daily lives that would eventually turn into habits.	To inform and influence parents through children and change the way families use water and electricity.
Children and energy	Regional	Educational and awareness campaign aimed at children from grades 1 to 4 (7-10 years old) from 10 Bulgarian cities. Children learn what is electricity, how it is brought to their homes and how to use it in efficient and sustainable way.	To inform and influence parents through children and change the way families use water and electricity.
iBROAD : Individual Building (Renovation) Roadmaps	CrossNational	The iBROAD approach is an evolution of EPC and energy audit systems, aiming to become a real driver for renovation. The project will analyse and build upon relevant examples in Germany, France and Flanders, to identify the elements, develop an integrated concept, and produce modular tools, suitable for differing national conditions.	iBROAD empowers end-users with knowledge and experience of deep renovation in individual buildings, and provides public authorities with real-life studies and analysis supporting deep renovation.
SAVES2 : Students Achieving Valuable Energy Savings 2	CrossNational	Students Achieving Valuable Energy Savings 2 (SAVES2) will catalyse sustainable energy behaviours among over 219,000 university students in seven countries to help them reduce their exposure to fuel poverty. It incorporates two strands that engage with students living in university accommodation and in the private-rented sector.	Trained student ambassadors will encourage their peers residing in student dormitories to save energy and participate in international energy-saving competition. Student communities will be engaged through social media and digital communications (quizzes, photo competitions) to raise awareness of how students can save energy in a fun way. An energy dashboard will update students in near-real time on the performance and position of their dormitory in the competition – providing feedback and encouraging further action.

IN-BEE : Assessing the intangibles: the socioeconomic benefits of improving energy efficiency	CrossNational	IN-BEE describes and provides evidence for the many intangible benefits of improving energy efficiency through a multi-disciplinary approach, combining methods, datasets, and techniques from cutting edge research in law and economics, humanities and consumer behavior, regulation and environmental sciences, as well as engineering.	<ul style="list-style-type: none"> • Developing a set of indicators to measure intangible benefits of energy efficiency • Developing Key Performance Indicators to assess the impact of energy efficiency strategies • Studying relevant cases and identifying best practices
START2ACT	CrossNational	START2ACT aims to reduce residential energy consumption by changing the behaviour of consumers and introducing energy efficiency measures within their daily routines by approaching them at their workplace.	Unleash the potential of energy savings via a set of innovative educational and capacity building measures.
PRO.MOTION - Creating liveable neighbourhoods while lowering transport energy consumption	CrossNational	The project addressed car dependency on three levels by changing people's perception and mobility behaviour.	To change mobility behaviour by influencing people's travel decisions and encourage them to adopt a less energy consuming lifestyle.
Energy, Education, Governance and Schools. A European school panel for involving local communities in energy efficiency programs (EGS)	CrossNational	The project involved schools in different actions for the implementation of energy efficiency, including manifestos for energy efficiency, database containing 50 good practices, and training courses for schools staff and students. In Bulgaria, a pilot project conducted in one school offered parents alternative ways to bring children to school instead of using private cars (school bus, car sharing, walking and biking).	To contribute to reducing energy consumption and using (energy) resources more efficiently and sustainably.
Energy-Conscious HOUseholds in ACTION (ECHO ACTION)	CrossNational	ECHO ACTION aimed active and voluntary involvement of families, local economic actors and financial institutes, co-ordinated by the local energy agency, to contribute towards the implementation of local energy plans.	Project addressed families as final users to shift the "demand side" towards more responsible energy use. On the other side it aimed to organise companies and financial institutes to provide relevant services and products to the families.
Sustainable Energy Communities in Historic URBan Areas (SECHURBA)	CrossNational	Project focused on residents of buildings in historic city areas and tried to develop ways to encourage energy efficiency practices and renewable energy systems in these communities. Energy audits were conducted in 30 historic buildings in 7 Member States with advice on energy efficiency and renewable energy measures.	Audits and software were used as tool for promoting sustainable energy interventions. The local community was engaged throughout the whole process and educated regarding renewable technologies and energy efficiency methods.

Energy Self Supply in Rural Communities (ENSRC)	CrossNational	The project established a rural self-supply energy co-operative (biomass utilization) called "Co-Operative Energy – AGRI". Energy Co-Operative members are owners of agriculture land, windmills, greenhouses and storehouse for grain. Their main energy needs are for heating.	energy cost reduction by switching to using biomass for heating
European Young Energy Manager Championship (EYEMAN CHAMPIONSHIP)	CrossNational	International competition for the best European Young Energy Manager Team. Teachers and students participated in energy training, and then trained other students, preparing them for the competition. The team obtaining the greatest economic savings within schools and homes received the EYE Manager Award.	using more energy efficient products, changing energy saving behaviours
More biking in small and medium sized towns of Central and Eastern Europe by 2020 (MOBILE2020)	CrossNational	The goal was to increase the share of biking as a mode of everyday transport in small and medium cities. Good practice examples and guidelines were promoted proactively by a working group on cycling, triggering a change in mobility behaviour.	Change mobility behaviour through capacity development and knowledge transfer about good practices
TRENDY TRAVEL - Emotions for sustainable transport	CrossNational	Project uses emotional approach to promote public transport, cycling and walking as alternatives to car travel.	To show how sustainable travel can be made more attractive by appealing to and promising to satisfy people's emotional needs, with ensuing energy savings, emissions reductions and cost savings.
From Estonia till Croatia: Intelligent Energy Saving Measures for Municipal housing in Central and Eastern European Countries (INTENSE)	CrossNational	INTENSE aims at transferring intelligent energy saving measures for municipal housing from "old" EU Member States to "new" Member States and Accession countries in Central and Eastern Europe.	Developed public awareness raising strategy and public information toolkits for municipalities for guiding of consumption patterns of inhabitants towards energy saving measures in buildings.
Creating Actions among Energy Conscious Children (KIDS4FUTURE)	CrossNational	The project targeted pilot schools with a common energy story, events and websites for children. The main aim was to create understanding and enthusiasm for the issue of energy saving, sustainable future, and the global energy challenges.	changing perceptions of children and their families about energy use and sustainability.

Integration of Active Learning and Energy Monitoring with School Curriculum (ACTIVE LEARNING)	CrossNational	The project promoted active learning and energy monitoring as a tool for energy education among children aged 6-12 years. Apart from changing attitudes towards energy use among children, it aimed at short- and long-term energy savings in school buildings and private households.	Integrating the topics of energy efficiency, renewable energy and transport into the school curricula and testing a toolbox of selected materials in selected schools.
EPORE - Energy Poverty Reduction in Eastern Europe	CrossNational	EPORE aims at supporting groups of vulnerable consumers in tackling fuel poverty by facilitating more sustainable energy behavior and choices in their everyday life. It also includes a transfer of best practices for the active engagement of vulnerable consumers.	1) long-term unemployed people with lower education trained as "energy scanners" to evaluate the energy situation of a household and provide it with energy tips and energy saving devices, 2) guideline for addressing fuel poverty and transfer of best practice (for policy-makers), 3) pilot actions in three areas and monitoring after 12 months

DENMARK (DK – 36)

Name	Scale	Description	Objectives
Fløng: Neighbour-to-neighbour	Local	The initiative takes place in a danish neighbourhood Fløng (part of the town Hedehusene). It is about energy consumption connected to the home and it is focusing on people helping eachother/communicating with eachother in terms of obtaining reductions in energy consumption by visiting each other and learning from each others experiences.	Seems to be about energy reductions in the home, but primarily in terms of refurbishing the home (energy efficiency)
ProjectZero - SpareKuffert	Regional	The SpareKuffert is one of many initiatives promoted by ProjectZero in the Sønderborg area. The Sparekuffert is a suitcase filled with information about how to save energy by installing more energy efficient versions of different kinds of appliances (lightbulbs, showerheads, energy-saving powerstrips and so on). It also holds meters for measuring energy consumption. The intention is that people substitute their old lightbulbs with the new ones in the suitcase and so on to see how it works - and to be inspired to buying LEDs and watersavers and so on, after having tried them out. The intention is also that people change minor habits.	Seems to be about lowering energy reductions in the home related to various kinds of appliances.

Eco-Life Høje Taastrup	CrossNational	Transforming urban areas into CO ₂ neutral communities improved quality of life, citizen engaged change, technological change	The large number of demonstration activities is based on both the demand side (demonstration of ECO-buildings and rational use of energy) and the production side (demonstration of various renewable energy technologies). All demonstration projects are defined in a "Whole Community Approach" which means that all project initiatives are considered as integrated components. The aim is to ensure optimal interaction and balance of the energy demand and energy supply at all times
Munksøgaard Community	Local	The idea was to establish a co-housing scheme with widespread environmental considerations during establishing and maintaining/running the place. A sense of community is/was important for the establishment. Munksøgaard is located in Roskilde Municipality outside of Roskilde City. Munksøgaard was developed as 100 new houses with energy and environmental concerns in focus when planning and building the houses.	Lowering energy consumption in general - related to buildings and household activities and practices

Insero Live Lab	Local	<p>Insero Live Lab was a visionary 'Living Lab' where 20 families in their own homes (in Stenderup near Horsens) tested the latest technology within energy and ICT - controlled via a Smart Grid. It was a demonstration of the intelligent energy system of the future, which provided consumers with more information and access to manage their own energy consumption</p>	<p>Lowering energy consumption in general, by increasing access to information about energy consumption, ICT and 'behaviour change'. In the village of Stenderup near Horsens in Denmark, 20 families had their homes fitted with the latest equipment within energy and ICT, and via a Smart Grid, the families tested the mutual interaction of the technologies as well as their coherence with the entire energy system. The 20 homes were all situated in Insero's local area, but a selection criterion was that they were outside the collective heating supply.</p>
Energy on Venø	Local	<p>Energy on Venø is part of a larger focus on developing Venø to be a sustainable 'year-round' society/island.</p> <p>Venø is a small Danish island. The focus of Energy on Venø is to map and reduce energy consumption in households along with addressing matters of energy supply. The initiative seems started and implemented by a local group of people.</p>	<p>The energy group on Venø has been analysing, assessing and reconfiguring the energy supply for 25% of the island's residential houses (29 houses). This work has obtained reductions in the island's total energy consumption as well. The households have been registering their energy consumption and the results have been displayed at a board by the ferry landing/harbour, for everyone to see, when passing it. A lot of people are commuting to and from the island everyday (residents work away from the island). It has been the intention that the board/display should help increasing the 'awareness' of energy consumption. The Energy on Venø project specifically DO NOT want to challenge the way people live,</p>

			but wants to increase 'common sense' .
My Climate Plan Middelfart	Local	My Climate Plan was developed by Middelfart Municipality, to get households to invest in energy renovations as part of reaching a goals with becoming a green municipality. My Climate plan would offer energy consulting to householders, in order to make them interested in investing in energy renovations. Middelfart municipality developed this on the basis of their positive experiences with ESCO based projects with renovating public and commercial buildings. My Climate Plan would offer energy consultancy to groups of households - at least 10 citizens living in the same area had to sign up for the energy consultancy which would be carried out in the participating houses at the same time	Lowering energy consumption from households in general
Esco Light Middelfart	Local	A sequel to My Climate Plan, but with a slightly different actor-configuration. Builders and other professions within manual trade were educated in energy consultancy, so that they could provide the energy consultancy along with regular consultancy related to home renovation	Lowering energy consumption from households in general
Andelssamfundet i Hjortshøj (AIH)	Local	AIH is a citizen-driven cooperative close to Århus, which was established in 1986 and built in 1992. The community is social-ecological oriented (like Munksøgaard) and aims to test different kinds of environmental steps and social communities. 300 people live in AIH now (2017) in 8 different groups of houses (bo-grupper). They focus on showcasing sustainable lifestyles, and they focus on different forms of (sustainable) consumption. The call themselves 'a living lab for a sustainable future'.	AIH aims to be an example of a holistic way of living with sustainability as a keyword in respect to ecological, economical and social aspects of life. This approach is visible in many ways in their daily lives.

Innovation Fur	Local	<p>Innovation Fur is an initiative that is about creating 'a mini-model of the future sustainable welfare society'.</p> <p>It is a public-private partnership between the residents on Fur, Skive Municipality and EnergiMidt (energy company). It is intended to inspire other local societies in Denmark and abroad to change towards sustainability. The initiative focuses on how energy efficient solutions, modern technology and digitalizations can help Denmark move towards a more sustainable (welfare) society.</p> <p>The initiator (EnergiMidt) writes that the unique part of this project is that they are testing solutions with 'real people in real homes, with real everyday lives'.</p>	<p>Lowering energy consumption and switching to sustainable energy supply. Also focuses on the role of digitalization and smart solutions. There seems to be an acknowledgement of the need to change ways of producing and consuming as well.</p> <p>Innovation Fur emphasises user-driven innovation and residents have been co-designing the different projects and activities.</p>
AGA - elspare konkurrence	Local	<p>AgendaCenter Albertslund developed a contest to get families from Albertslund area to save energy. Initiative targets/adresses residents own actions within the home to make residents aware of what they do when they consume energy. The intention is to get residents to share learnings and ways of saving energy with neighbours. Prices were given every month to the participants who had reduced their energy consumption the most.</p>	<p>Lowering energy consumption in general.</p>
SpareFamilier	Local	<p>EnergiMidt initiative that targets families from the central part of Jylland. The intention is to help families reduce energy consumption by targeting consumption and by adjusting habits in the home. The initiative has been tested twice, once in 2013 and once in 2016. 13 families were involved in the first round and 10 families were involved in the second round. Families were invited to participate, and families would sign up.</p> <p>Families were selected on the criteria that they had not before tried to reduce energy consumption in their home.</p>	<p>Various consumption areas were targeted: 1. habits in the kitchen, 2. habits with washing clothes and stand-by consumption, and 3. Lighting</p>
For Enden Af Vejen	National	<p>This initiative cooperates with homeowners associations to offer local events about energy savings and renewable energy. The idea is to start a communication about the energy consumption that the participating residents have and any issues they may have with comfort and or indoor climate, as well as possible solutions.</p> <p>The initiative is part of Energistyrelsens 'Bedre Bolig' campaign. The events are carried out all over Denmark, but in small scales.</p>	<p>The aim of the initiative is to get homeowners to engage with energy renovations, addressing limitations and possibilities of the buildings, and to discuss expectations about levels of energy consumption</p>

DIY for Boiligejerer	National	<p>This initiative is coordinated by municipalities climate-coordinators and local evening-schools and is a DIY course for homeowners who want to learn about different possibilities for saving energy at home. The course focus on enabling the participants to get hands-on experiences with replacing old windows, using heatpumps, installing LED and so on. The courses are carried out at one of the participants home - a bit like Tupperware parties. The homeowner gets a free thermography, which becomes basis for the course and the discussions amongst participants. Participants can borrow a 'suitcase' of different kinds of equipment, and the participants take turns using it at home. The initiative is offered by municipalities and Energisturelen, like the initiative For Enden Af Vejen (and is part of BedreBolig?)</p>	The aim is to help homeowners realize possibilities for energy savings at home
KlimaFamilier	Local	<p>20 families in Ballerup Municipality were to live as climate-friendly as possible. The focus areas were wide; transportation, energy consumption, heating, food, waste and water consumption. Ballerup Municipality implemented the initiative</p>	<p>Lowering consumption in areas of water, food and energy consumption and in relation to waste and travel.</p>
KlimaLandsbyen Studsgaard	Local	<p>250 families live in Studsgård, which is a small town just outside of Herning. The town has a very active civic association, and in 2018 Studsgaard town went together with Herning Municipality to turn Studsgaard into a ClimateVillage. The Civic association agreed that they would realize a reduction in CO₂ emissions by 25% compared to the level of CO₂ emissions in 2007. A part of the initiative involves energy and energy consumption and 29 households received energy consultancy (290 houses were offered the option).</p>	<p>Lowering CO₂ emissions from energy consumption, farming, eating and travelling, clothes...</p>
Kursus for Invandrerer og Flygtninge	National	<p>Courses are being developed, targeting immigrants and refugees to help them learn about energy consumption, the Danish energy supply, how to save energy and how to use technical installations right. There have been two of such courses, one in Furesø Municipality and one in Tønder Municipality. The one in Furesø targeted immigrants and au pairs, whereas the one in Tønder targeted/include refugees of which 90% were from Syria. The courses cover teaching/classes and homework</p>	<p>The objectives are to help refugees and immigrants learn about possibilities for and practical aspects saving energy, to learn about energy supply (as part of integration) and to help the participants of the courses to avoid getting large, unforeseen energy bills</p>

AGA Energibesparelser for Indvandrere	Local	AgendaCenter Albertslund (AGA) carried through a project specifically targeting immigrants and their energy consumption. The project aimed to promote information and gaining experience with energy use and savings amongst immigrants in Albertslund, and involved home-visits, courses, excursions and training of climateambassadors, sowing-clubs, social clubs.	AGA did not set up specific targets for the realized energysavings but anticipated energy savings from 10%-30% of the participants energy consumption
Økosamfundet Dyssekilde	Local	Økosamfundet Dyssekilde is a local town focusing on sustainability, ecology and community. Houses are divided into 6 groups, and people own their houses but not the green areas on which the houses are built. There is a strong sense of community and it is now based 'on shared values rather than a specific conviction'. This can be interpreted as if the community is build on shared understandings of 'the good life' more than a matter of being particularly ecological or environmental.	Aim is to be living sustainably.
Bydelsmødre Kolding	Local	Bydelsmødrene (Neighbourhood Mother) are immigrant women from an area in Kolding who has trained to become climate and energy ambassadors. 10 women have participated and the local energy-and environmental consultant Niels-Christian Sørensen, from the houseing association AAB in Kolding has taught the women.	Objectives are to help immigrant women learn about energy savings and that the woment share their knowledge and experience with friends, families, neighbours and so on. The training is part of an integration effort. Focus is on energy consumption behaviour, but also intends to use the training as a gateway to ensure a stronger sense of community and citizenship

Samsø (and the energyacademy)	local	<p>In 1997, Samsø won a contest dedicated to becoming the first Danish Renewable Energy Island. The contest was organized by the danish department of energy and contest was given a small amount of money to form a proposal. Samsø proposed a 10 year plan for becoming 100% selfsufficient on renewable energy sources. In an article from 2014 it is stated that all the electricity for the island is produced by 11 windmills based on land, and 70% of the heating came from 4 sustainable central heating plants. Several local energy productions also contribute to the total energy supply there is a strong social component in the project, and the term 'Energydemocracy' is associated to the project. The strong local support for the project has made participation 'the norm'.</p>	to obtain a local society that is based on 100% renewable energy and selfsufficient
BedreBolig Rådgivning	national	<p>BedreBolig Rådgivning is a national initiative provided by Energistyrelsen (the Danish Energy Agency) to homeowners who want to engage in energy renovations of their home.</p> <p>The BedreBolig Rådgivning includes a measuring of energy consumption and general (energy) state of the house, advices about 'good energy behaviour', a priorities list of steps to make and a suggested budget</p>	Lowering energy consumption and promoting energy renovations
Svanholm (Hornsherred)	Local	Svanholm is an ecological commune, where focus is on sustainable everyday life, socially, ecologically and environmentally.	Sustainable living (including sustainable energy consumption)
ProjectZero - ZeroHomeModel	Regional	Initiated in 2010, the ZEROhome (ZERObolig) program focused on engaging house-owners in energy retrofitting the areasapp. 16,800 private owned houses. The program focused on the EU energy label and qualified ways to improve the individual houses current energy standards. The ZeroHome programme was/is part of the ProjectZero overall programme, carried out in the Southern part of Jylland	Lowering energy consumotion and promoting energy renovations
Vækst via Energirenovering	National	<p>Vækst via Energirenovering is initiated by the NGO Gate21 and Region Hovedstaden (the capital region), and focuses on motivating homeowners to energy renovation and to seek advice about it, as well as to equip municipalities and industry and commerce to advice and carry out energy renovations.</p> <p>The initiative is linked to the BedreBolig initiative</p>	<p>Lowering energy consumption and promoting energy renovations.</p> <p>It seems primarily to be energy consumption from heating that is targeted</p>

SEAS NVE Grøn Forskel (social media)	National	<p>Grønforskeld.dk is a website initiated and hosted by the coop based energyconcern SEAS NVE.</p> <p>The intention with the website is to communicate specific and tangible stories and advice about how to live sustainably and energyefficient. The website adresses people who wants to learn more about sustainability and how to live sustainably.</p> <p>The website communicates several aspects about energy consumption, and how to change aspects about energy consumption, and it adresses aspects of collectivity and social action.</p> <p>The website also has a blog-page, where it links up to other blogs about sustainability and energy.</p> <p>On Facebook, GrønForskeld has almost 20000 followers.</p>	GrønForskeld aims to help people live sustainably, also in terms of energy consumption. The website and Facebook page seems to adress everyday life situations.
GrønPuls	Regional	<p>GrønPuls springs from a public-private partnership between a municipailty, an energy supplier, a trades association and a housing assocation, about energy renovations of homes.</p> <p>Inspired by the Project Zero Initiative.</p> <p>This initiative is also linked up to the BedreBolig initiative</p>	GrønPuls aims at promoting energy renovations of homes and to help different trades providing better energy renovations and a deeper knowledge and more extensive competencies about energy renovations
SAVE-E	National	<p>SAVE E is a danish project about how to get homeowners to energy renovate. There is an analytical component of analysing 'drivers and barriers', and an experimental/design component of trying out different models</p>	Lowering energy consumption and promoting energy renovations
RoskildeLampen	Regional	<p>Roskilde Lampen project aims at developing a lamp that indicates energy consumption levels in households. The initiative is carried out in Roskilde, and builds on 'nudging' principles.</p>	Lowering energy consumption - the project predicts that the the lamp can entail a 5-10% reduction in energy consumption
TransTownFuresø	Local	<p>The initiative aimed at developing and building a climatefriendly local community with measurable results in terms of CO₂ and energy reductions in Furesø Municipality, Furesø Climate Assocaiton (ngo/network) was the initiator, and part of the project was to develop and test Transition Towns concepts.</p>	Lowering energyconsumption and reducing CO ₂ emissions through collective actions

Model Søpassagen	Local	AB Søpassagen is (was) the first CO ₂ -neutral housing cooperative. It is located in Østerbro in Copenhagen and involves 88 homes.	Lowering energy consumption primarily by making energy renovations and investing in renewable energy sources. Focus on changing consumption routines and creating new norms and routines
MCHA project	Local	The MCHA project was a qualitative study of how people use light, heating and electricity in the home, and the aim was to develop IT solutions to effectivise the use and to lower the energy consumption from this use, and to control comfort and energy consumption levels of the house. The project was carried out by Alexandra Institutet, and involved 24 families, all coming from the eastern part of Jylland. Families were recruited through the radio and through the internet. Families were involved in workshops developing and testing prototypes.	Effectivising the use of light, heating and electricity and lowering energy consumption from that.
PSO 2003 standby consumption	Local	This project was about reducing stand-by consumption in households, and was carried out by the Danish building research institute and Lokalenergi (an energy company in Jylland).	To explore different opportunities for getting people to lower their stand-by energy consumption.
PSO 2006 Feedback	Regional	This project was about feedback opportunities in terms of energy consumption in households	The aim is to develop, test and evaluate new ways of providing feedback about energy consumption to 'energyconsumers'
Grundfos Living Lab	Local	The Grundfos Dormitory monitors water and energy consumption and is built to optimize the use of water and energy. It is located in Århus, and houses 200 students in 159 apartments	Lowering energy consumption in general
Project Zero - ZeroFamily	Local	ZeroFamily is part of the overall ProjectZero - ProjectFamily offered training and education in low carbon and sustainable lifestyles for Sonderborg citizens. Over 100 families took part in the project that ran in 2009 and the families engaged in workshops and courses. Target was for families to understand and learn about 'easy changes to make' in their lifestyles, and families measured their energy consumption every month.	Lowering energy consumption and CO ₂ emissions. Also about economic gains. Habits and lifestyles were targeted.

FINLAND (FI – 47)

Name	Scale	Description	Objectives
Micro-ESCOs	Local	The initiative aimed at developing a full service package for residential energy efficiency investments. This particular project focused on the joint purchasing of heat pump solutions. The project was located in Mynämäki (member of the HINKU carbon-neutral municipality programme), which is a rural municipality with about 8000 residents, and specifically Raimela residential area. Residents were supported by home audits, meetings, technical support and support for funding the investments.	Reducing use of fossil energy in heating, enabling joint purchasing (initially joint system)
Open Homes Energy Walks	National	The idea has been for people who have made an energy investment (energy efficiency or renewable energy) to show and tell about their experiences to neighbours. The walk is a new way to organize open eco-home days: a fixed-time walk with experts participating makes it easier to get hosts to agree to open their doors. The initiative is not limited to residents in rural areas, but most of the walks have been made in smaller municipalities and detached houses.	Providing peer support for energy investments in homes
Carbon neutral residential area Skaftkärr	Local	Skaftkärr is a new low-carbon residential area in Porvoo, Southern Finland. Porvoo is part of Carbon Neutral Municipalities (CANEMU) network, in which involved municipalities are committed to an 80 % emission reduction target by 2030 from the level of 2007. Skaftkärr promotes Living Lab activity to e.g. develop, test and demonstrate real-time electricity metering.	Changing how people use energy
Evaluating heat pumps	Local	A local, information-based project implemented by the Residents' Association of Kaakonoja (Valkeakoski, Pirkanmaa region). The project aimed at providing information to the households about energy efficient space heating options on the market, particularly airsource heat pumps. It also aimed at reducing energy use by motivational and attitudinal means, and providing knowledge and peer support.	Reducing energy use, improving energy efficiency and the use of renewable energy

Carrotmob	CrossNational	Carrotmob is a virtual community that aims to reduce CO2 emissions by coordinating consumer power. The idea is to get a large number of consumers to buy commodities as a fun event, on the same day at the same place. There are different ways of working, but the idea is to stimulate businesses to invest in carbon reductions. The community was active in Finland in 2008-10.	Promoting energy savings in businesses and shops
Environmental Agents	National	Volunteer students were trained to be agents for environmental change and sustainability in their schools. They received training by volunteer teachers for conducting small-scale environmental audits in their schools and for training other students and teachers in their own and other schools. The training focused on practical issues like waste recycling and energy management.	Raising awareness on environmental issues
Billing feedback trial	Local	The aim was to develop an informative billing system for permanent use for electricity customers in Helsinki. The programme started with a 2.5 year experiment to determine the effects of billing based on actual consumption of the billing period, consumption feedback and saving tips on household energy consumption. The pilot led to a permanent informative billing scheme that is used to this day.	Lowering electricity use by providing feedback
Energy Expert	National	Energy experts are volunteer residents who have been trained to be active in energy issues in the building they live. Experts can monitor sudden changes in the energy, electricity and heating consumption in their building. They also provide advice and assistance to other residents about more efficient energy and water use practices. They also act as contact persons towards the housing organization and the housing management company and vice versa. In owner-occupied buildings, they are usually members of the residents' board and participate in planning energy renovations.	Changing how people use energy

HEAT '07	Local	The HEAT'07 (Household energy awareness technologies) project was designed to improve household energy efficiency and mitigation of climate change impacts, and to improve the means available for consumers to get information on their electricity consumption. The objective was to test the BaseN-developed real-time measurement and visualization technology, collect user experiences and suggestions for improvement, and to further develop a website dedicated to presenting household-specific data on electricity consumption.	Reducing energy use and improving energy efficiency
Green Office	CrossNational	Green Office is a programme offering office facilities a simplified environmental management and certification system, with a special focus on CO2 emissions. Green Office is a purely voluntary and self-financing programme. The scheme has been operation since 2003, preceded by a pilot phase (1999-2002). 156 organizations in Finland have gained the Green Office certificate and the programme has expanded to other countries. The programme also targets employees' energy use at home.	Reducing energy and natural resource use and improving energy efficiency
Motivoittaja	National	A project aiming to mainstream and 'normalize' the concept of low-energy housing through a technology procurement competition and labelling system, targeted at prefabricated detached homes.	Promoting energy efficiency and renewable energy at the housing market
ENEOKO Energy and heating system information for detached houses	National	The project aimed to advise homeowners, who were planning to renovate heating system, about different heating systems and heating sources, their usage, investment and running costs and impacts on the environment and climate. A total of 27 meetings were organised for local homeowners (Southwest Finland and elsewhere) in co-operation with the Southwest Finland Energy Agency and Finnish Homeowners' Association. Site visits, an advisory phone/e-mail service and a set of slides about e.g. the costs of different heating solutions, were provided.	
Ilmari Climate education project	National	The aim of Ilmari was to increase 13-18 year old school children's and teachers' knowledge and understanding of the climate change (i.e., information), and to motivate and help pupils to see what they can influence through their individual and collective choices (i.e., empowerment). Ilmari's role and impact in energy savings was indirect but in terms of the communication objectives, Ilmari was effective.	Raising awareness on climate change

Climate communication campaign	Local	Climate communication campaign of the City of Kuopio was connected to a broader attempt to develop a local climate strategy for Kuopio, a city in Eastern Finland. The climate communication campaign was organised to increase awareness by organising seminars, information sessions, exhibitions, a large-scale 'energy saving week', media articles, and publishing information material (brochures, websites, games). The campaign was made in co-operation with local partners such as the energy company and the university.	Raising awareness on climate change
Wattitalkoot	Local	This project tried to develop a train-the-trainer concept and at the same time, connect advice and social mobilization by a local energy advice centre to the development of an online tool for energy monitoring.	Providing peer support for energy saving in homes
Energy efficient student housing	Local	This project sought to find ways to engage students in reducing energy consumption in their housing. Finnish students homes are not dorms but complete apartments, and many students have families. The main measures were advice and improved schemes for reporting on problems in the building.	Mobilize students to save energy in their own apartment and common facilities
Map service for waste heat and solar potential (HSY:n aurinkoenergian ja hukkalämmön karttapalvelu) ()	Regional	HSY developed an open data-based regional map (Helsinki, Espoo, Vantaa) where residents can identify heat waste and solar potential.	Reducing use of fossil energy in heating and electricity
Tarmo+	Regional	Tarmo+ (Low-carbon residential areas of Tampere region) is an ongoing project to support owner-occupied housing associations in saving energy. The aim of the project is to support energy efficiency and use of renewable energy, and support co-operation between consumers and service providers. The project also promotes energy efficient construction projects in existing residential areas.	Promoting energy efficiency and renewable energy in residential buildings

EU-GUGLE	CrossNational	The EU-GUGLE (European Cities Serving as Green Urban Gate Towards Leadership in Sustainable Energy) project aims to demonstrate the feasibility of nearly-zero energy building renovation models in view of triggering large-scale, Europe-wide replication in smart cities and communities by 2020. To reach this objective, the eight pilot cities (of which Tampere is one) will join efforts to combine the latest research results relevant to smart renovation of groups of buildings at district level and use this knowledge to implement a balanced mix of technical, socio-economic and financial solutions adapted to local needs.	Promoting energy efficiency and renewable energy in residential buildings
Jyväskylän Energia Demonstration House (Talo a)	Local	A pilot single-family building with home automation enabling electric peak shedding. Owners have been closely involved in developing the system together with companies. The automation technology was developed together with businesses and the experiences from the process and the results are used in the development of a new residential area of Kangas in Jyväskylä.	Promoting energy efficiency and renewable energy in residential buildings
Smart Kalasatama and Hima application	Local	The new Kalasatama area of Helsinki is an experimental innovation platform to test and co-create various solutions, such as smart urban infrastructure and services. Smart Kalasatama is a large living lab initiative. The Hima pilot is about smart energy monitoring and control with a system developed by Helen and ABB.	Lowering energy consumption in general.
ECOHOME Education, training, tools and services to enhance sustainable household consumption	National	Tools, action models, education and services were developed tackle the GHG emissions of especially housing and everyday lifestyles: (1) training programme for professionals for supporting house owners and managers in major renovations and maintenance and related business models (2) Energy management of housing companies (i.e., condominium associations) and (3) Tailored advice for households based on the measured consumption data and tailored advice by eco-trainers and (4) Web-based tools and face-to-face communication to improve the sustainability of everyday lifestyle choices.	Changing consumption patterns and improving energy management of housing companies
Heat promise (Helenin lämpöläpäus)	Regional	Helen is testing possibilities to engage electricity and district heat users in peak clipping (i.e., turn off heat at peak demand) on a voluntary basis using text messages to volunteers at peak heat hours.	Reducing energy use in heating

Climate Info (Ilmastoinfo)	Regional	The aim is to familiarise residents and SMEs with the climate strategy of the cities of the Helsinki Metropolitan Area and provide support and guidance with practical measures. Energy-efficiency and renewable energy, food, transportation and consumption are the four main themes. The services also include EcoCompass, which is a lighter environmental system for SMEs and events, as well as light energy surveys with Energiasuunta.	Lowering energy consumption in general.
Climate Street (Ilmastokatu)	Local	The already built urban environments in Iso Roobertinkatu in Helsinki and Tikkuraitti and Asematie in Vantaa are searching for new solutions to cut down greenhouse gas emissions and energy consumption levels. The solutions will be developed and experimented in cooperation with each area's businesses, real estate owners, residents and the city administration.	Promoting energy efficiency/saving experiments that are tested on site
Balance your house (Tasapainota Talo)	Local	Advice program to help multifamily buildings to control and adapt heat distribution and ventilation systems.	Reducing energy use in heating
Anticipatory quality training in building inspection (Rakennusvalvontan ennakoiva laadunohjaus)	National	The city of Oulu started organizing the issuing of permits for homebuilders (single-family homes) in a new way. Permits were issued at certain times and before this, applicants were invited to training events where energy efficient solutions were taught. This resulted in significantly more energy efficient designs. The model has been copied/applied in several municipalities in Finland.	Promoting energy efficiency in residential buildings
Solar collector self-building courses	Regional	These courses have been organized by folk high schools and vocational schools since the late 1990s, starting with an idea imported from Austria. The aim is to promote renewable energy and energy citizenship by engaging people in a self-build project that is also educational. Solar collectors are a good venue for this since they are easy to understand.	Promote energy citizenship, community and self-sufficiency via craft self-building.
Green doors (Vihreät ovet)	Regional	Climateinfo has organized annual events where residents who had made energy saving improvements in their homes were invited to open them to visitors.	Changing how people use energy, promoting small-scale renewable energy

HSL new customer procurement (uusasiakashankinta)	Regional	The aim of the project was to attract people from private driving to using public transport. The initiative consisted of multiple campaigns (e.g. free trial to public transport for two weeks, with travel card delivered home). The project was part of Programme to Promote Sustainable Consumption and Production (KULTU)	increase public transport use in the region
Towards Resource Wisdom (Kohti resurssiviiosta)	Local	The Towards Resource Wisdom project was coordinated by the Finnish Innovation Fund Sitra, in Jyväskylä. Experiments were used as a strategic development tool to search for new ways that could be embedded into everyday activities to reduce the consumption of natural resources and cut emissions while increasing well-being in the region; in other words, to promote resource wisdom. In the Jyväskylä region, residents produced more than 210 ideas. Of these ideas, 14 were developed further into practical experiments. On the basis of experiences from experimentation, three pilot projects and further experiments were conducted. At the same time, a roadmap towards resource wisdom was created for the city. The project acted as an example for the Finnish Sustainable Communities (FISU) network that was founded in 2015.	Lowering energy consumption in general.
Resource wise housing (Resurssiviias asuminen)	Local	Four housing associations in Jyväskylä conducted different measures in order to promote resource wisdom. The aim was to develop an operating model for sustainable housing (incl. means such as replacing lights or installing water-saving fittings in apartments), which could be copied and spread across Finland.	More energy efficient buildings and energy saving in households
Wisely-lighted housing association (Viisaasti valaistu taloyhtiö)	Local	This project was a part of Resource wise housing project in Jyväskylä. In the project, old outdoor lights were replaced with new LED lights to promote energy efficiency and safety. The residents were involved in the process and due to the opportunity to learn about the LED lights, many of them also changed old light bulbs in their apartments to the new ones.	Lowering energy use in lighting
The bus leap (Bussiloikka)	Local	The project was part of the Towards Resource Wisdom project in Jyväskylä. The aim was to promote public transportation and reduce GHG emissions by a variety of means, such as free PT days, creating framework for sustainable mobility and educational activities for school children.	increase public transport use in the region

Future Household	Local	Five households of different size aimed at minimising their carbon and material footprints during one-month experiment. The project was part of the Towards Resource Wisdom project in Jyväskylä.	Changing the ways people consume
Kangas	Local	The Kangas project is the main urban development project in Jyväskylä for the next several decades. The City Council approved the master plan for Kangas at the end of 2013 and residential construction started in 2016. In the future Kangas will be a home to 5 000 inhabitants and 2 101 new jobs. There are already companies, educational institutions and living lab activity located in Kangas. Kangas will be built into a cyber secure area and its ICT infrastructure is based on future projections. Wise use of resources is one of the main themes in Kangas. Kangas is for example one of the first two areas in Finland that are trying out the One Planet Living approach. The area is partly energy self-sufficient. Sense of community and sustainability are seen e.g. in the urban farming and promotion of a car-free lifestyle.	Changing the ways people consume, lowering energy consumption in general
PiggyBaggy	National	PiggyBaggy is a ride-sharing based mediation service where people transport each other's packages along their daily commute or shopping trips. The service matches consumer transport demands with other consumers going in the same direction. People can transport each other's packages and get small monetary compensation in return. PiggyBaggy partners with e-commerce and delivery management companies to create volume for the ecological, economical and socially sustainable effect.	Reducing private driving
Carbon-free May (Vähähiilinen huhtikuu)	Local	Five households aimed at minimising their carbon and material footprints during one-month experiment. The project was very similar to Future Household project and part of the project team was the same. The aim was to promote low-carbon lifestyles and provide examples of alternative ways of doing daily tasks. The project was organised in Joensuu, Finland as part of other climate activities of the city (Ilmastotori).	Changing the ways people consume

ILMANKOS	Regional	The ILMANKOS project was carried out in Tampere Central Region in seven residential areas and their surroundings. The aim of the ILMANKOS activities was to improve the residents' community spirit and participation, as well as encourage people to make climate-friendly choices. What is important is working together, a positive we-spirit and interaction, as well as the skills and ideas for a new, more climate-friendly life.	Changing the ways people consume
Kierrätyskeskus, 4V (Care, Affect, Enjoy, Flourish - Helsinki Metropolitan Area Reuse Centre project to promote an environmentally friendly way of life and community solidarity)	Regional	The aim of the project was to promote an environmentally friendly way of life and community solidarity, and to provide the residents more opportunities to influence in selected residential areas in the Helsinki Metropolitan Area. The project focused on the districts and neighbouring areas of Leppävaara, Kirkkojärvi and Suvela in Espoo, Mellunkylä, Roihuvuori and Herttoniemi in Helsinki, and Korsu and Länsimäki in Vantaa. The project supported the residents' participation in activities to improve their living environment and the promotion of education for sustainable development in schools and day-care centres. As part of the project, models for sustainable urban living and community solidarity were developed in cooperation with the rented houses owned by the city. The project workers cooperated with the residents, organisations, rented houses, schools and day-care centres in the pilot areas. The starting point for the activities was the needs of residents and other local actors.	Changing the ways people consume
HOAS Laboratorio	Local	HoasLab was a design project carried out by think tank Demos Helsinki and Foundation for Student Housing in the Helsinki Region. HoasLab explored and developed new models for shared living and to "Energy Smart Life" by conducting small trials. The project was part of the official programme of the World Design Capital Helsinki 2012 year.	Lowering energy consumption in general, changing the ways people live in student apartments
Climate Diet (Ilmastodieetti)	National	Ilmastodieetti.fi is a carbon footprint calculator. It can be used to calculate your personal carbon footprint including housing, passenger transport, food, waste and the consumption of products and services. The calculator is designed for Finnish conditions.	Providing information on carbon footprints and how to decrease them
Energy Thriathlon	Local	This is an annual competition for condominium associations in saving water, heat and electricity. The aim is to raise awareness and change practices.	Changing the way people consume collectively (in Finland, heat and water are usually billed collectively in multifamily buildings)

Handyman Town	About	Local	The project trained local people to serve as handymen for elderly people who are not able to take care of their houses alone	Enabling better care of homes, including energy systems
Negawatti		National	The project offered the builders and renovators of condominium building apartments and single family houses a light energy inspection in order to find out the possibilities to energy efficiency improvements and to alternatives for heating as well as their payback times. The condominium building associations were encouraged to request joint offerings for energy efficiency improvements and eco-energy.	The objective was to reduce energy consumption and green house gas emissions of condominium buildings and households. The advice was especially targeted to properties where the energy saving potential is high, such as building associations with oil heating. Advice was also offered to single-family home self-builders and renovators as well as small businesses.
Carbon neutral Harakka		Local	Harakka is a small island in Helsinki. The nature centre of Harakka is owned by the City of Helsinki and only renewable energy is used in the island. The energy path in Harakka presents different alternatives to produce renewable energy, such as solar panels, small wind turbines and heat pumps, so visitors are able to see these by themselves and learn from them.	Changing the ways people use energy
Language tree (Kielipuu)		National	Language tree is a web portal for teachers teaching Finnish for immigrants. It focuses on environmental issues and the idea is to teach Finnish and simultaneously teach about sustainability and environmental issues of everyday life, such as how to recycle or save energy in Finland. The materials are being planned and tested in 2017 and the portal is available for teachers by the end of 2017.	Providing information on sustainable consumption

GERMANY (GE – 59)

Name	Scale	Description	Objectives

Hochhaus an der Bugginger Straße 50	Local	An old and energy inefficient multi-storey residential property was turned into a passive building. Citizens as well as stakeholders were included in the process.	Making the district more energy-efficient; setting an example by not tearing down and rebuilding, but by renovating it; making the inhabitants aware of how to save energy
Energieberatung für ALG II-Haushalte	Local	This initiative's target group were low-income households. They were visited by "energy-advisors" (former long-term unemployed) that gave them advice on how to use energy more efficiently	1. Give long-term unemployed the opportunity to work; 2. Advise low-income households how to save money by installing energy-efficient devices.
Bremer Stromsparwette	National	"SolidarStrom" awarded households that ranked best in the following four categories: 1) household with lowest energy consumption per capita 2) hh with the highest reduction in comparison to the year before 3) the group with the highest overall savings 4) the most creative approach	To enthuse households in the field of energy-saving, save up to 10,000 kWh / year
Gut zu wissen: Energie sparen in Bayern	Regional	This is a leaflet in which describes a number of different ways to save energy. T	To save energy, to heat cleverly
Dämmen lohnt sich	National	Pamphlet in which the importance and advantages of insulating homes are highlighted.	To save energy through improved insulation
Eco TopTen	National	This a website where efficient (household) devices (from different categories) are ranked	To encourage consumers to buy more energy efficient products
NECKARSULM-AMORBACH Solar	Local	Solar assisted district heating system	To increase quantity of district heating requirement satisfied by solar energy
European Energy Award	CrossNational	Certification and quality management system which rewards cities and towns with a label for outstanding efforts in the field of energy efficiency and the use of renewable energies.	Incentivise cities and towns to undertake efforts to save energy and engage with renewable energy technology.
Climate Protection Heidelberg 3 Education: E-Team Project	Local	An initiative to make people more aware of climate change and motivate them to live climate protection in their private and work environment.	Achieving climate change objectives for the city of Heidelberg through a number of initiatives, public outreach, sustainable city development, education and sustainable SME management

Interaktive Energiesparatgeber für München	Local	Interactive energy-guidebook that highlights possible ways to save energy	Detect devices in people's homes that are not sufficiently energy efficient and present opportunities for savings, e.g. addresses of sustainability associations and tips on how to save energy
Förderung von Mini-KWK-Anlagen	National	Information campaign on how to receive a bonus payment for the installation of a combined heat and power (CHP) system.	To incentivise households to install CHP systems through monetary incentives
Heizspiegel	National	An initiative where households can compare their energy consumption for heating to other households (in their surroundings)	To make households more aware of their energy consumption
Initiative EnergieEffizienz Private Haushalte	National	Convince households of the advantages of saving energy	To change the way people consume energy
Zukunft Haus	National	Initiative supplying information on about Efficiency-Houses of the future.	Convince people of the long term advantages of energy-efficient houses
Sanierungshelden	National	Competition between households to renovate homes; including different categories of homes	Households that have renovated their homes to share their story with others and perhaps create a snowball effect.
Nationale Klimaschutzinitiative	National	This is an initiative that finances other (smaller) initiatives.	To lower greenhouse gas emissions and to promote innovative campaigns and approaches to save energy
Gut fürs Geld, Gut fürs Klima	National	Climate-friendly financial investment (pension scheme)	Consumers are supposed to combine a sustainable financial investment and climate protection
Heizungs-Check/Pellets-Check	National	Development, testing and training of services to improve the energy efficiency of heating systems and to promote the increased use of wood pellets.	Promote higher energy-efficiency through raised awareness among households and a reduction of CO ₂ emissions; economic use of wood
Mobicheck	National	similar to Eco TopTen	To make people aware of differing sustainability levels of distinct products

SchoEDL	National	Several new efficiency services relating to domestic burner efficiency were developed in consultation with "Schornsteinfeger" (chimney sweeps) and trialled in the field.	To make people aware of the different possibilities to save energy in their heating/CHP systems.
EiMap	National	Development of guidelines for the "energetic" renovation of homes	To motivate households to renovate their home "energetically" and thereby contribute to the reduction of emissions
Solar-Checks	Local	A free solar check for households	To motivate householdss to invest in solar energy
Bitte lächeln: Fotowettbewerb zu energieeffizienten Elektrogeräten	National	An agency is looking for creative pictures that represent the energy efficiency of different procuts	generate attention for energy efficiency
Klima sucht Schutz	National	Convince households of the importance of emitting less CO ₂	To motivate households to save energy
Holen Sie mehr aus Ihrer Heizung	National	This initiativepromotes energy performance checks for radiators.	To convince households to conduct radiator checks and ensure that they are operatingefficiently
Klimaschutz. In unserer Hand.	National	This project aims to reach people with a migration background through: 1) presentations and discussions, 2) trying to combine religious activities with climate protection, 3) information in print media	Awareness raising for climate change among migrants; better networking between migrants and environmental organizations
Verbraucher aktiv - Klimakompetent heizen	Local	The project tries to convince households of the advantages of saving heating energy. To encourage a longer-term effect, the project uses an innovative participation process.	To lower energy consumption used for heating purposes.
Sanieren 60plus	National	The project tries to reach elderly homeowners in order to encourage them to combine their later life plans to renovate their homes with an energy related innovation.	1) Motivate households to include energy related concerns in their plans to renovate their homes 2) to train trademens in combined energy related renovations--
Münster packt's!	Local	The participants commit themselves to contribute to lower emissions through small everyday measures	To attract as many participants as possible for the initiative and consequently save energy
Energiekarawane gegen den Sanierungsstau	Regional	The project offers a cost free and neutral energy consultation for homeowners on-site which is supposed to motivate them into considering energy related renovation measures	To conduct 40 energy consultations in the Rhein-Neckar region between 2012 and 2015

Das Saarland voller Energie	Regional	A(n) action/campaign week in the state of Saarland,	Aims to make households (among others) aware of the advantages of renewable energy
COzwo und Co	Local	This is an exhibition that exemplifies the role of renewable energies and also the importance of an economic energy use	
Energiesparmeister (SWM)	Local	Households compete against each other and try to save as much energy as possible	The Stadtwerke München GmbH municipal works company tries to find households that agree to be supported by an expert who gives energy advice.
Energieeffizienz im Haushalt	National	Through this web based schools initiative young people can find information on energy saving in all kinds of areas.	Make young people aware of the opportunities to save energy
Energie und Klimaschutz in Vierkirchen	Local	Vierkirchen is a town in Bavaria, which promotes a sustainable vision. They want to reduce green house gas emissions and to make aware of the problem of climate change. Therefore, they offer a range of diverse concepts, actions and reports that deal with the environment	To reduce green house gas emissions and to make people aware of the problem of climate change.
Das 10.000 Häuser Programm	Regional	The 10,000 house programme offers two different funding areas: 1) replacement of old central-heating boilers, 2) a holistic renovation	To achieve an energy modernization of homes
clever heizen!	Regional	This campaign is executed by the energy agency of Lower Saxony together with local partners, who offer independent consultations for households.	
Grüne Hausnummer	Regional	The "Green House Number" is an awardfor environment-friendly homes which is awarded in various regions in Germany	1) To achieve a higher quality of building(s), 2) save resources, 3) promote local trades
Gut beraten: Energiesparen!	Regional	This is a campaign executed in Lower Saxony, which informs home owners about what options there are for improving their insulation.	Increase the share of well insulated homes in Lower Saxony
Solarenergie auch für ihr Haus? Machen Sie den Solar-Check	Regional	Free checks that inform home owners whether it is feasible/economically viable to install a solar system on their home's roof	To increase the share of household solar systems
Hessische Energiesparaktion	Regional	The campaign promotes energy saving information for home owners (especially of old houses).	1) To increase the share of energy-efficient homes, 2) The promotion of the energy services economy in Hesse

Hamburger Energiepartnerschaften	Local	About 40 households from a club of home owners entered an energy partnership with students from the University of Hamburg who accompanied them for one year.	1) To educate students, 2) To make home owners aware of the possibilities of energetic renovation, 3) To encourage the use of more energy efficient appliances in the home.
Avu-Bürgersolaranlage	Local	Citizens of the city of Wetter could buy shares in a photovoltaic system. This opened up the possibility of tenants (who cannot put up a photovoltaic system) becoming shareholders allowing them to invest in renewables	To promote the extension of renewable energy
Bielefelder Initiative für Zukunftsenergien und Energieeffizienz	Local	This initiative wants to reduce CO ₂ levels by 40% by 2020 and increase the share of renewable energy to 20%	The initiative wants to pool and further develop different approaches from the fields of "future energy" and "energy efficiency"
Klimatisch Bielefeld	Local	This is a co-op/network of businesses that support and advise home owners by renovating their homes	To offer consultation, support planning and implementation
Stromsparscheck für einkommensschwache Haushalte	National	This is a campaign where long-term unemployed are trained to be energy advisors, who can then forward their knowledge to low-income households	To sensitize low-income households to opportunities for saving energy; give long-term unemployed a chance to work
KlimaAlltag - CO ₂ -arme Lebensstile in der Null-Emissions-Stadt	Local	The team of scientists in this project examined how everyday-routines in different social layers can be changed	
Klima-Coach	National	The "Climate-Coach" gives examples, where one can save energy (and consequently CO ₂ emissions). Participants can click buttons that say "take part", which obliged him- or herself to fulfil the particular task (e.g. stairs instead of elevator, lights off, doors closed, radiators turned down, ...)	To lower energy related CO ₂ consumption with small changes
Eigenstromversorgung Hamburg-Barmbek	Local	In Hamburg, there is a residential complex, where residents produce their own electricity and heat through a modern condensing boiler and a CHP-plant	1) To use more emissions efficient energy 2) To save money
Energiesuffizienz		This project shifts the focus away from traditional goals of energy efficiency towards the goal of energy sufficiency (i.e. reducing overall consumption)	To encourage people to use less energy and shift the focus towards examining whether one really needs to consume at their current levels.

Deutschland macht's effizient	National	Large information campaign, predominantly advertised on TV and through posters and other promotional material. It connects saving energy with "cool" spots and slogans.	Inform citizens, businesses and municipalities about ways to save energy, to receive financial support from the government etc.
Various offers from the municipality of Munich	local	1) rent of electricity meters free of charge 2) personal consultation at home 3) rent of a professional electricity "suitcase" 4) energy consultation for low income households 5) advices on economic appliances	lowering the energy consumption of residents in Munich
Energie(spar)ausweis	National	Energy Performance Certificates give ratings about a property concerning its energy efficiency. The result is a letter from A to G (comparable to grades in school)	To give homeowners (to be) easily accessible and comprehensible information about the efficiency of their (future) homes
PC game for children from the municipality company Munich	Local	A computer game for children. Here, they can test, which devices in a room should be switched off when a room is not used. At the end, the user gets a "diploma".	inform children about the importance of saving energy
Volltreffer für den Klimaschutz	Local	Residents of the city of Bielefeld try to convince other residents of the importance of saving energy. As soon as they have done so (and implemented other energy saving practices) they send a postcard addressed to the town hall. Eventually, the overall number of cards will be counted. The project is supposed to show that lots of small measures can tackle climate change effectively.	To find as many participants as possible who want to engage in energy efficiency measures.
Energieatlas Bayern	mix: regional and national	This is a website that offers energy-saving tips. Among them is for example the so called "energy triple jump" which illustrates the consumer as a sportsman/woman, who is supposed to lower CO ₂ -emissions in the correct order (so that a sensible energy reduction can be reached)	To lower energy consumption and promote renewable energies making the energy transition possible
LaVidaVerde	Local	The project realises the idea of future-oriented living in a district of Berlin. It is implemented in a "Energy-Plus-House", which is inhabited by people that have decided to follow a sustainable way of living.	To demonstrate improved insulation, a roof with photovoltaic modules, usage of rain and grey water, resource protecting way of life.

Energiesparberatung inkl. Abwrackprämie für alte Kühlchränke	Local	Lower the energy consumption of private households in the city of Dusseldorf CO ₂	1) To save CO ₂ -emissions 2) To reduce utility bills 3) To give long-term unemployed a employment opportunity 4) To offer a cost-free and independent consultation 5) To combine employment promotion, social politics and environment protection
Solare Wärme - einen Schritt voraus	National	This initiative promotes the introduction of an energy label for photovoltaic systems (complemented with energy labels for cars or electrical devices)	To make the consumer aware of different types of photovoltaic systems; make the market for those systems more transparent

GREAT BRITAIN (GB – 35)

Name	Scale	Description	Objectives
3e Houses (Bristol Living Lab)	CrossNational	Knowle West and 3 other EU sites	Monitoring energy use w. IT
City Lab Coventry	Local	Coventry	Efficient energy/transport mgt systems
Building for the Future RENERGY LAB	CrossNational	Chesterfield	increase long term uptake of RES
Durham County Council RENERGY LAB	CrossNational	Oakenshaw	knowledge exchange/transfer re: energy labs
Kingston Smart Communities	Local	Tudor Ward,	energy demand reduction
Manchester is my Planet	Local	Greater Manchester	CO ₂ emission reduction/awareness
Edinburgh CRAG DEFUNCT	Local	Edinburgh	Reduce energy use/ CO ₂ emissions
Fownhope, Carbon Reduction Action Group ACTIVE	Local	Fownhope	10% individual CO ₂ emission reduction, no penalties
Glasgow Carbon Rationing AG DEFUNCT	Local	Glasgow	equal-per-capita CO ₂ emissions reduction target
Hackney & Islington Carbon Rationing AG DEFUNCT	Local	Hackney/Islington	equal-per-capita CO ₂ emissions reduction target
Hereford Carbon Rationing AG DEFUNCT	Local	Herefordshire	equal-per-capita CO ₂ reduction target, no pen
Leeds Carbon Reduction AG DEFUNCT	Local	Leeds	individually chosen CO ₂ ems reduct targets; penalties

Oxford Carbon Rationing AG DEFUNCT	Carbon AG	Local	Oxford	equal-per-capita CO2 emissions reduct target, financial penalty
Peckham Carbon Rationing AG 2007-09 DEFUNCT	Carbon AG	Local	Peckham, London	no penalties
Sustainable Redland Carbon Rationing AG DEFUNCT	Carbon AG	Local	Redland, Bristol	CO2 emssions reduction
York CRAG ('reduction') DEFUNCT	CRAG	Local	York	equal-per-capita CO2 reduction target, no penalties
ERIC project		Local	Rose Hill, Oxford	solar pv & smart energy storage
Low Carbon Oxford North		Local	North Oxford	?
GAP Big Energy race 2015	Big Energy	National	UK wide	promote energy efficiency in communities
British Gas Green Streets	Gas	National	UK wide	Reduce energy use/ CO2 emissions
Halton Lune Hydro		Local	River Lune, Halton, Lancashire	electricity generation
West Solent Solar Co-operative Limited	Solar	Local	Pennington near Lymington	solar PV
The Othona community		Local	Bradwell-on-Sea	wind & solar PV
Bristol Power Co-op (Lockleaze)		Local	domestic properties in several areas of Bristol	increase urban RE and coop model
BedZed		Local	purpose built eco-community; showcase of eco-development, providing homes, jobs, a community for Bicester residents	reduce greenhouse emissions, water, car use
NW Bicester Elmsbrook One Planet Living	Bicester	Local	Phase 1 of Eco-town	reduce greenhouse emissions, water, car use
One Brighton		Local	first One Planet Community to be completed in the UK	reduce greenhouse emissions, water, car use
Leamington CRAG		Local	carbon rationing action group	CO2 emssions reduction
Sevenoaks CRAG		Local	carbon rationing action group	CO2 emssions reduction
Blewbury Energy Initiative (Oxfordshire)	Energy	Local	aim to reduce carbon footprint in village	Thermal imaging; advice on water, IT, lighting
GoZero Chew Magna (near Bristol)	Chew Magna	Local	Aim to reduce carbon footprint;	recycling; transport; energy; consumption; international offsetting
Carbon Neutral Biggar (Scotland)	Neutral	Local	carbon neutrality by reducing emissions and offsetting	transportation, air travel, food, household energy consumption, waste
Ashton Hayes Going Carbon Neutral (Cheshire)	Hayes	Local	carbon neutrality, reduction of emissions and offsetting	Promotion of renewable energy; reducing consumption
Totnes Transition Town/TT Streets		Local	Build local resilience; reduce carbon emissions	reduce CO2 emissions, energy saving,resilience to resource scarcity
Greening Wingrove		Local	Aim to help Wingrove people to live sustainably	energy behaviour change; food growing

HUNGARY (HU – 42)

Name	Scale	Description	Objectives
EnergyNeighbourhoods programme (<i>EnergiaKözösségek k program // GreenDependent Institute</i>)	National	'EnergyNeighbourhoods' programme was an energy efficiency and energy saving campaign where 5-12 households making up small groups (i.e. 'EnergyNeighbourhoods') aimed at reducing their energy consumption through behaviour and practice change in the frame of a competition. Each group was lead by an 'energy master' who was trained and supported throughout the project. The programme placed special emphasis on raising awareness of households' responsibility relating to climate change and on creating communities to support change.	saving energy in households without making investments, reducing CO2 emission by at least 9%, motivating and strengthening local communities
E.ON EnergyNeighbourhoods programme (<i>E.ON EnergiaKözösségek program // GreenDependent Institute</i>)	National	E.ON 'EnergyNeighbourhoods' programme was an energy efficiency and energy saving campaign where 5-12 households making up small groups (i.e. 'EnergyNeighbourhoods') aimed at reducing their energy consumption through behavior and practice change in the frame of a competition. Each group was lead by an 'energy master' who was trained and supported throughout the project. The programme placed special emphasis on raising awareness of households' responsibility relating to climate change and on creating communities to support change.	saving energy in households without making investments, reducing CO2 emission by at least 9%, motivating and strenghtening local communities, involving the younger generation as 'energy hunters' e.g.
Nagy család - Kislábnyom program (<i>Large Family - Small Footprint campaign // GreenDependent Association</i>)	National	The overall aim of the Large family - Small Footprint campaign was to initiate long-lasting behaviour change in household energy use behaviour and to raise awareness of households' responsibility relating to climate change. Information was provided at community events, online, at information training events, in newsletters, bi-weekly tips and through publications, including case studies by participating households. The competition was organised nationwide by GreenDependent Association and the National Association of Large Families.	to raise energy and climate change awareness of households, to draw attention to and provide information on energy saving possibilities without investment, and to reduce consumption through various means.
Kislábnyom program (<i>Small Footprint campaign // GreenDependent Association</i>)	Regional	The overall aim of the Small Footprint campaign was to initiate long-lasting behaviour change in household energy use behaviour and to raise awareness of households' responsibility relating to climate change. Information was provided at community events, online, at information training events, in newsletters, bi-weekly tips and through publications, including case studies by participating households. The competition was organised by GreenDependent Association and the National Association of Large Families in the Central Hungary Region.	to raise the energy and climate change awareness of households, to draw attention to and provide information on energy saving possibilities without investment, and to reduce consumption through various means.

EcoTeams programme (ÖkoKörök // Association of Conscious Consumers)	National	EcoTeams is the behaviour change based household sustainability programme of Global Action Plan that was adapted and used in several countries. In this programme, teams of households led by a volunteer coordinator - trained by the leader organisation, Association of Conscious Consumers - examine and green their everyday lifestyles together.	to raise energy awareness of households, to reduce consumption and to save energy
Energy Check for Low-Income Households project (Csekkcsökkentő projekt//Energiaklub)	Regional	Between 2011-2014, Energiaklub worked with low-income households to increase their energy efficiency mainly through behaviour change. 260 low-income households were reached by 10 trained people who helped them go through their everyday energy use practices and conduct simple measurements. The aim was to raise awareness of energy efficiency and reduce energy bills of those involved in the programme.	improving energy efficiency of low-income households
Szekszárd Climate Club (Szekszárdi Klímakör)	Local	Szekszárd Climate Club was initiated on a wide public base in a traditional wine region, Szekszárd. As Szekszárd is an agricultural region, it is more exposed to the adverse impacts of climate change. The initiative focuses on adjusting and mitigating the impacts of climate change. They attempt to incorporate 'climate-friendly' approach into the life of inhabitants, and also try to decrease energy dependency.	preventing the adverse impacts of and adjusting to climate change
Energy Experience (EnergiaKaland program // E.ON Hungaria)	National	Energy Experience is a virtual educational programme supporting educationists (/teachers) to raise energy awareness and promote energy efficiency among children and young people (age 5-16). The program's goal is for children to learn by playing and, by doing so, to get to know the exciting world of energy, energy generation and use, and the importance of energy conservation.	raising energy awareness of children and young people
DIY door and window insulation programme (Szigetelés fillérekből // EcoService/Ökoszolgálat)	National	30% of the Hungarian population are below the poverty threshold; for them heating is problematic (due to high energy loss and lack of proper insulation). On the initiative of Energiaklub, a network of NGOs provide the know-how (including an online short instruction film), training and rent the equipment necessary for doing the insulation, and then households can do the work themselves.	reducing energy loss of houses

Biomass briquettes programme <i>(Biomassza brikett program // Real Pearl Foundation and Art School)</i>	Local	The project takes place in the Berettyóújfalu micro-region where biomass briquette, a cheap, environmentally-friendly fuel is produced manually by a hand-press. The project contributes to create new jobs and community, reduce heating costs of families involved, and save local forests from cutting down illegally.	creating an affordable heating fuel for local poor people, improving community
Wekerle Energy Brigade programme <i>(Energia Brigád/ later Wekerlei Szigetelési Brigád // Transition Wekerle)</i>	Local	Wekerle Energy Brigade programme is implemented in Wekerle (part of Budapest), the first Transition Town in Hungary. The initiative was started by a group from the largest local NGO (Wekerle Társaskör Egyesület). The programme's aim is to make households more energy efficient. One-off training events are held about insulating doors and windows.	lowering energy consumption of heating
Passive House Open Door Days <i>(Passzívház Nyílt Napok // MAPASZ - Hungarian Passive House Association)</i>	National	A popular and successful event of MAPASZ (Hungarian Passive House Association) is the annual passive house open door days (coinciding with the international Passive House Open Door Days) during which anyone interested is invited to visit energy efficient, low-energy buildings, private as well as public ones. MAPASZ organizes visits, including visits around the country to several buildings in buses.	raising awareness related to sustainable building; long-term objective: building of more energy efficient houses
Social Electricity Online Platform (by LENERG Energy Agency Nonprofit Llc.)	National	LENERG Energy Agency Nonprofit Llc. has an interesting project targeting households entitled Social Electricity, which is connected to a European project (Social Electricity Online Platform (SEOP)) funded by the Lifelong Learning Programme. The mission of the project is to raise the awareness and knowledge of citizens about energy, the environment and sustainability. An important achievement of the project is an online application called Social Electricity that is intended to help people manage their personal consumption collaboratively, by interacting and comparing with friends, neighbours and other users.	lowering energy consumption of homes in general
Insulation of Homes in the region of Vác <i>(Lakásszigetelés Vác térségében // Habitat for Humanity Hungary)</i>	Local	Habitat for Humanity Hungary conducted a project for low income households in 2014 with support from the Saint Gobain Initiative Foundation and volunteers. They organized the insulation of houses for low-income households around the town of Vác.	making houses more energy efficient

Spinning Grumbler's World programme (Forgó Morgó // Hungarian Committee of Domestic Equipment Manufacturers (CECED))	National	CECED operates an interactive website on energy efficiency with online activities, information and awareness raising tools, in the framework of the "Spinning Grumbler's World" programme targeting both adults and children through separate online tools. They offer saving calculators, information, games, videos and advice/tips to promote replacing old, low energy efficiency appliances to new, more environmentally-friendly ones.	lowering energy consumption of households in general
Washing machine exchange program (mosógépcsere program // CECED Hungary)	National	CECED Hungary actively cooperates with the government in the implementation of the washing machine exchange programme (which is the 5th sub-programme of the Warmth of the Home grant programme), in the framework of which they also provide information on the energy consumption of washing machines. In this government funded programme, households receive funding (50% of the machine for A+, A++ or A+++ category equipment) to assist in the exchange of their old washing machines provided that with the exchange they achieve at least a 10% reduction in related energy use or avoid 20 kg/year CO2 emission.	lowering energy consumption of washing machines, reducing CO2-emission
Warmth of the Home Programme (Otthon melege program // Tatabánya)	Local	The Municipality of Tatabánya provided additional support to detached houses who had successfully applied for the national grant scheme called „Warmth of the Home”. This programme provided financial support for energy efficiency modernisation of detached houses nationwide, and the Municipality of Tatabánya intended to support the above national programme locally.	increasing energy efficiency of detached houses
LED energy saving programme (LED energiatakarékkossági program // ELMŰ)	National	In the framework of the LED Energy Saving Programme households are invited to buy premium category LED lights and pay for them in instalments. The company complements this popular programme with an online energy saving calculator tool.	increasing energy efficiency of lighting

Programmes for households by ELMŰ-ÉMÁSZ energy provider company (<i>Energy Money-box, Energy Points, enHome GreenLine</i>)	National	ELMŰ-ÉMÁSZ as one of the largest electricity providers in Hungary have had a variety of incentives and programmes intended to increase household energy efficiency and awareness. Energy money-box (Energiapersely) used to be an energy saving programme for households providing tips and advice for saving energy in the home, both online and in the form of printed flyers. There are two energy consultancy offices (Energy Points) operating in Hungary to give detailed information about practical use of renewable energy and efficient energy use. Moreover, there is an educational part of the programme called 'enHome Zöldjárat' (GreenLine) (formerly called: Fizibusz) to give interactive lectures for students about energy efficiency and natural sciences.	lowering energy consumption in homes, raising awareness of environmental issues, providing information on renewable energy sources
Insulation demonstration project (<i>szigetelési mintaprojekt</i> // Knauf Insulation)	Local	In the winter of 2013/2014 Knauf Insulation, an insulating company implemented a demonstration project with the involvement of 2 comparable houses. It was widely publicised how the two houses – one of them insulated, while the other one without insulation – performed in winter, focusing on their overall heating costs and information about levels of comfort. The project intended to show how much one can save by properly insulating a typical detached family home.	better insulation of detached houses
Climate ticket (<i>klímajegy</i> // Tatabánya)	Local	Between 2008 and 2010, the municipality of Tatabánya implemented a very innovative programme called "Climate Ticket". The aim of the programme was to set up a system that helped people and organizations to offset their emissions voluntarily at the local level through green investments. The climate-ticket system worked by helping businesses and individuals to assess the size of their carbon footprints and to voluntarily pay for them as well as providing investment in projects in the Tatabánya Region.	offsetting emissions voluntarily, raising awareness of climate change
Renovations are Imminent (<i>Küszöbön a felújítás</i> // Energiaklub)	National	In 2012 Energiaklub conducted an information campaign with an interactive website, real-life renovation case studies of different types of houses and flats, calculators, short documentaries, etc. on energy efficient renovation called "Renovations are Imminent". The overall objective of the project was to help the general public realize that energy efficient renovation is in their own interest.	more energy efficient buildings

Nearly Zero Energy Buildings (NZEB) Open Doors Days (<i>Hatókony Ház Napok</i> // GreenDependent Institute)	National	GreenDependent Institute implemented low-energy buildings open doors days on two occasions, in 2013 and 2014 for a week nationwide each time. Public and private buildings and homes were opened for visitors so that the general population and experts could get hands on information about the building and use of low energy buildings.	information and hands-on-experience on low-energy buildings
Solar Days (NAPOS napok // KÖTHÁLÓ)	National	As part of the European Solar Days, the project was implemented in Hungary during 2010 - 2012 by KÖTHÁLÓ, the Hungarian Network of Eco-Counselling Offices. The project contributed to make solar energy popular in Hungary and to raise awareness about this clear and renewable energy source. Successful project workshops, trainings and events were organised nationwide during the project.	raising solar energy awareness
Campaign promoting sustainable lifestyles (<i>fenntartható életmódot ösztönző kampány</i> // KÖTHÁLÓ)	National	The Hungarian Network of Eco-Counselling Offices (KÖTHÁLÓ) implemented a sustainable lifestyles campaign through its nationwide network of counselling offices in 2008-2009 in 30 towns. The campaign had less specific focus on energy efficiency; instead, it took a more of a holistic approach. Apart from this specific campaign, KÖTHÁLÓ has numerous publications, local and nation campaigns to support households in greening their lifestyles.	raising awareness related to sustainable lifestyles
GreenHome demonstration, training and community centre (<i>ZöldLak Bemutatóközpont</i> // Kör Egyesület)	Local	The GreenHome is a renovated old house in the town of Veszprém. The aim of creating this interactive demonstration and training centre was to showcase environmentally friendly and energy efficient solutions, provide space for training and community events as well as for experimenting with them.	showcasing and exhibiting green and energy efficient solutions, creating space for training and community events, helping and inspiring people to change their lifestyles and learn about 'green' solutions and products, provide a renting service for tools and equipment, e.g. energy meters
Gödöllő Climate Club (GreenDependent Association)	Local	The climate club members live in or around Gödöllő, a town in Central Hungary. The initiative started in 2009 (there was a gap between Fall 2014 and Fall 2016) and involves meetings once in a month. On the meetings members discuss climate change and energy-related issues, ideas and concerns in an informal setting while drinking fairtrade tea and eating homemade cakes. Occasionally they have a chance to consult with experts on a given topic of special interest.	Reducing the carbon footprint of the members; sharing skills and knowledge in lower carbon living; and promoting awareness and practical action in the wider community through organizing and participating in community events in the town of Gödöllő.

Community Power (Friends of the Earth Hungary)	National	<p>Investments in Renewable Energy Sources (RES) in Hungary are challenged by multiple factors, such as quickly drying out national financing schemes (which anyway need a significant capital and are not accessible to the people in energy poverty), complicated bureaucracy of the permitting processes, very limited national RES appliances production, services and expertise.</p> <p>Therefore the initiative focused on creating a more favourable legislative environment for community RES projects and building up a cross-national and national community power coalition. Besides, public campaigns were organized in 5 Hungarian regions to facilitate the birth of more community energy initiatives and projects.</p>	<p>Speeding up the development of community RES projects by creating a favourable legislative environment in the EU and in Hungary: writing legislative recommendations and investigating the possibilities of joint public-private financing of community RES projects; building up a national and EU-wide network of stakeholders; involving and informing decision-makers and residents.</p>
Staccato Project - "Village House"	Local	<p>The biggest residential building in Hungary got an energy retrofitting - including the insulation of walls, replacement of windows and the installation of solar collector system (1515 m²) - through this initiative. The Soviet-type block building's energy system was very outdated, resulting in high operational costs and CO₂ emissions. The actual retrofitting took place between June and December 2009, but there were 3 years of preparatory and 3 years of monitoring periods involved as well.</p>	<p>Reducing CO₂ emissions as a result of better energy efficiency and the application of renewable energy sources. Increasing the value of flats and the living quality of the residents. Opening an information centre in the building where residents could receive information about the project and about energy saving possibilities. Encouraging other communities or collectively owned apartment buildings to opt for renovation.</p>
Carbonarium (Carbonarium Association)	National	<p>The initiators of Carbonarium were a few individuals (representing households), who all agreed to record their monthly energy consumption (household electricity, heating - gas or other -, car mileage, etc.) in an online system and pay membership fee based on their calculated CO₂ emissions. Carbonarium prepared statistics on its members' consumption and emission data, and made comparisons between members. Besides, Carbonarium published some of the statistics on its website, accessible to the general public. The sole source of income for the initiative was the membership fee, it relied solely on voluntary work and the personal commitment of its members.</p>	<p>Provide information and data on climate change; raise public awareness; research climate change; reduce the atmospheric concentration of CO₂.</p>

Community wind turbine in Vép	Local	A few enthusiastic people (some of them locals) came up with the idea of investing in a wind turbine in Vép, a village (since 2009 a town) near the Austrian border. The investors aim was not to make profit for themselves but to create value for the village, enhance its economic potential and do good to the community of inhabitants. They handed over 20 % of the ownership to the local municipality and created a possibility for the locals to become co-owners. The original investors only wanted to keep 35 % of the ownership. The profit would go towards investing in further wind turbines, though the lack of government quotas put a halt to this plan for the meanwhile.	Increasing the sustainability of the local economy and community without harming the environment. Awareness-raising, spreading this model.
Community biomass heating plant in Pornóapáti	Local	The establishment of a biomass heating plant (using available local resources) to supply the community of the villagers was initiated by the mayor. At the beginning the municipality organised an event for the villagers, and 85 % of them voted in favour of the initiative. The neighbouring Austrian village, Bildein has a similar plant, they shared their experience and provided expertise throughout the construction.	Energy independence; decreasing overall CO2 emissions and air pollution; increasing the living standard of the inhabitants (before they had no heating system whatsoever) and reducing the expenses of heating.
"Jövő/Menő Erőnyerő"	Local	The "Jövő/Menő" project was started as a result of a cooperation between Telekom Hungary and the Szívalapát Foundation. The initiative focused on one of the most challenged micro-regions in Hungary, and aimed at enhancing sustainability's all three pillars within this micro-region. One of the four major initiatives of the project was "Erőnyerő", which means "acquiring power". This initiative entailed renewable energy workshops in which experts taught locals how to build appliances that use renewable energy sources from easily available materials, e.g. solar thermal collectors from beer cans. The project heavily relied on volunteers and put a great emphasis on involving the locals.	Giving media attention to a successful effort of realising the goals of sustainable development in one of the most economically and socially challenged micro-regions of Hungary. Decreasing the energy expenses of the participating - typically low-income, disadvantaged - households, at the same time increasing their quality of life.

Masonry heater building workshop in Ete	National	<p>Based on the idea of two parents the municipality of Ete, a village in Northern Hungary, decided to replace the gas heating system of its primary school with two masonry heaters. The first heater was built in 2008, and the second in 2009. Both occasions were workshops themselves, where interested locals, as well as other Hungarians along with some foreigners, could learn how to build this particular type of heater. The expert was associated with the Masonry Heat Association, USA.</p>	<p>Replacing imported and environmentally destructive fossil fuels with locally available biomass for heating purposes. This way reducing overall energy need (the masonry heater is a very efficient means of heating) and the pertaining expenses, and of course CO2 emissions; increasing the demand for local resources and manpower. Spreading the know-how for building masonry heaters. Calling the attention of pupils to the importance of natural resources (as the heaters were built in a primary school).</p>
Smart metering multi utility pilot project	Regional	<p>Three utility companies decided to initiate a smart metering pilot project together, which involved smart meters for electricity, gas, district heating and water. The cooperation was unique not only in Hungary but in the EU as well, as the companies involved have very different structural and technical profiles.</p>	<p>Testing the newest technologies in a Hungarian context; influencing consumer behaviour towards a more efficient and conscious use of energy and water, creating the circumstances for being able to provide more tailor-made tariffs and advices; decreasing the expenses of meter readings; being able to calculate the transmission and distribution losses more precisely; improving allocation. Also, to analyze the future prospects of such multi utility cooperation.</p>

Smart Synergy Project (EDF)	National	Three utility companies and other business partners initiated a smart metering pilot project together, which involved the installation of smart meters for electricity, gas and water in households. A comprehensive analysis of possible behaviour change was also part of the project.	To test the reception of smart meters and the willingness to change energy (and water) consumption patterns as a result of smart metering in a Hungarian context; to investigate the technical and other possibilities of deploying multi utility smart metering; to find the best fitting business model for a smart metering system; to get a clearer picture of and show the expenses and possible savings related to the introduction of a smart metering system
"Lakcímke" (Energy Certificate // Energiaklub)	National	In 2010 Energiaklub, a Hungarian NGO, published a booklet, set up a website and organized numerous events in partnership with local organizations all over Hungary to spread information about the compulsory energy audit and home energy certificate. Clarification and dissemination of correct information was felt to be needed since Hungarian legislation on the certification does not ensure an easy understanding of the system.	The objective of the campaign is to support the introduction of EU directive 'EPBD' in Hungary. Energiaklub introduced this directive to the Hungarian public as a positive and priceless tool, helping homeowners to reduce their energy use and thus energy bills, meanwhile also having the result of more energy efficient building stock in Hungary.
The Geoterm Vácrátót project and "How big is your footprint" exhibition	National	As part of the Geoterm Vácrátót project - running from 2009 to 2011 - the Vácrátót Botanical Garden (owned by the National Academy of Sciences) installed a heating system that is based on geothermal energy and biomass. Besides, a Visitor Center, called Carbonhouse, was also built, which is a passive house itself. Since 2012 the Visitor Centre has a permanent exhibition called "How big is your footprint?" on climate change, including sections on using renewable energy sources and how we can reduce our carbon footprints in our homes.	To contribute to reducing the impacts of the global environmental crisis both directly (through the new heating system using renewables) and indirectly (by hosting an interactive exhibition about climate change and the new heating system itself for the public). The geothermal and biomass based heating system not only covers the heating energy need of the greenhouses and buildings of the Botanical Garden, but the municipality-owned public buildings (e.g. the mayor's

			office, local school and hospital) also utilize it. Since the installation Vácrátót's (a town in Northern Hungary) CO2 emissions has reduced considerably.
Livable Future Park	National	One of the Hungarian utility companies decided to build a complex off-grid renewable energy production system for the Horse Therapy Centre of the Hungarian branch of International Children's Safety Service. Three other well-known corporations also joined the initiative. As a result the Livable Future Park was created - including wind, solar and geothermal energy plants and an exhibition centre for the public, entry is for free. Two universities are also involved, their experts carry out measurements and use the system as a living lab.	To create a complex renewable energy production system, including an exhibition, for demonstration purposes; to serve as a living lab for and to contribute to the research of various aspects of future energy solutions.
Green Bloc	Local	The "Green Bloc - make bloc buildings a better place to live in" one-year initiative was managed by the Budapest Cultural Centre, involving a number of NGOs in carrying out the campaign. It targeted primary school students and their families in the 11th district of Budapest, who were mostly living in Soviet-type bloc buildings.	Popularizing behaviour patterns related to sustainable lifestyle through awareness-raising, workshops etc. The main focus areas of the initiative were: energy, waste, conscious shopping, eco-housing, greening public spaces
Panel 2050 (WWF Hungary)	Regional	Unlike in Western Europe, in Eastern Europe the transition of local communities towards using locally available, renewable energy sources is just about to start. This project aims to facilitate this process in Central Eastern Europe, altogether 11 countries, by creating a network of stakeholders interested in this transition. The project runs from 2016 to 2019, and the Hungarian project partner is WWF Hungary. In Hungary two economically and socially challenged counties are involved.	To create a network in order to enhance the transition towards low-carbon local communities; to involve local stakeholders (including households) and make a regional energy plan and realistic local action plans together; to relieve local social and economic problems this way; to provide an opportunity for the most active members to

			participate in national and international workshops and conferences in the topic; to inform participants about related news, programs and project opportunities.
Energy efficiency information office in the 14th district of Budapest	Local	The municipality of the 14th district of Budapest established an energy efficiency information office, where experts give free advices on energy efficiency related issues for the residents and enterprises of the district. This is the first such office in the country, strictly focusing on energy efficiency and energy saving. A few other districts have somewhat similary offices though, such as the Green Office of the 12th district, embracing a wider spectrum of environmental issues, thus also giving information on e.g. waste management, green spaces or e-mobility and cycling.	To spread information about energy efficiency and energy saving among the residents and enterprises of the 14th district; to help in the legal and technical process of making energy efficiency related investments; as a result to reduce the overall energy consumption of the district; to create an example for other municipalities.

IRELAND (IE – 55)

Name	Scale	Description	Objectives
SEAI's "Better Energy Communities" (BEC) Scheme	National	Better Energy Communities (BEC) is part of a Government funded programme which aims to retrofit Ireland's buildings to high standards of energy efficiency. Administered by Sustainable Energy Authority of Ireland (SEAI), it encourages private, public and community organisations to work together in delivering energy upgrades to local areas.	Reducing fossil fuel use, running costs and greenhouse gas emissions through improving the thermal and electrical efficiency of the building stock and energy poor homes and facilitating and encouraging the implementation of deeper and more technically and economically challenging measures.
SEAI's "Power of One Street"	Local	Power of One street was created as an "Energy Makeover Challenge".	This initiative was about changing energy practices and involved educating those involved in the study about how to reduce their energy consumption and setting them a challenge to do just this.

Drombane/ Upperchurch Community Retrofitting Project – Tipperary	Local	Ran by the Drombane/ Upperchurch Energy Team (DUET) a 14-person team drawn from dispersed locations in the parish (municipality). It was decided that conservation (building insulation) rather than generation would provide better outcomes to the community.	The team argued that a 25% reduction in energy usage could save the parish (municipality) €250,000. During the initial survey 60% of householders (200 out of 349) cited financial savings as their most important reason for investing in energy efficiency. This project focused on the built environment and improving the thermal and electrical efficiency of the building stock and energy poor homes through building retrofits.
Cloughjordan Eco-Village - Tipperary	Local	Cloughjordan is Ireland's first eco-village.	This community was comprised of persons that wanted to move to an Eco-village to live a more sustainable life.
Think Energy Hub (CODEMA & Dublin City Council)	Local	The Think Energy Hub is an online platform that is part of the Think Energy awareness campaign, which Codema is currently running in association with Dublin City Council and South Dublin County Council. This was undertaken in Dublin County Council's Civic Offices.	Think Energy aims to educate and inspire staff in local authority buildings to become more energy efficient by understanding more about the building that they work in and learning how their own behaviour can play a significant role in reducing the overall energy use. The campaign's energy-saving messages were supported by: <ul style="list-style-type: none">-Careful monitoring of Civic Offices to identify areas for improvement-An online energy hub which continues to provide real-time information on the energy being used in the building, along with tips, quizzes and educational videos.-Themed energy days-Lunchtime energy-saving talks-Promotional material-Staff surveys & feedback

			<ul style="list-style-type: none"> -Seasonal energy advice (e.g. saving energy during the winter months) - Competitions
The Home Energy Saving Kit (CODEMA & Dublin City Council)	Regional	<p>As part of the Think Energy campaign, Home Energy Saving Kits were rolled out to all Dublin City Public Libraries. The kits contain 6 practical tools to help households save energy at home, and are available to borrow free of charge from all Dublin City libraries and can be borrowed for a period of 2 weeks</p>	<p>To help households understand energy consumption at home and identify where savings can be made. It helps them take the first step to becoming more energy efficient by identifying possible problem areas in their home. The kits contain:</p> <ul style="list-style-type: none"> Fridge/Freezer Thermometer - to measure the temperature of your fridge and freezer accurately and adjust accordingly. Thermal Leak Detector - to detect energy leaks in your home by showing you the temperature differences with a coloured LED spot. This helps to spot thermal air leaks and identify areas for additional insulation and/or draught proofing. Temperature & Humidity Meter - to identify both the temperature as well as the humidity levels in the home. Plug-In Energy Monitor - to understand how much energy the appliances in the home use and help calculate their running cost. Radiator Key - to bleed radiators if a wet central heating system is in place by releasing trapped air and making the radiators run more efficiently. Stopwatch - to measure the flow rate of water taps, showers and bath to ensure that no water

			<p>or energy is wasted.</p> <p>User Manual - to provide very simple and visual instructions on how to use each tool in the kit.</p> <p>Manufacturer's Guidelines - to give further information on each of the tools, so users can avail of the manufacturer's original guidelines.</p>
Home Energy Saving Tips (CODEMA & Dublin City Council)	National	<p>As part of the Think Energy campaign, Home Energy Saving Tips were created and outlined on the Think Energy Hub website.</p>	<p>These tips were aimed at giving information on how to reduce energy consumption across space heating, domestic hot water, electrical appliances, lighting, cooking and energy consumption through creating a database of easily understood energy saving tips.</p>
Dublin City Council Better Energy Communities Project - Pearse House (CODEMA)	Local	<p>As part of the Better Energy Communities initiative, CODEMA helped Dublin City Council garner funding to upgrade all the public access lighting in Block E of Pearse House to energy-efficient LEDs. Pearse House is located on Pearse Street in Dublin 2. There are 345 social housing units spread across 17 blocks, and the complex is owned by Dublin City Council.</p>	<p>This project focused on upgrading the public access lighting in this block to energy-efficient LEDs.</p>
Dublin City Council Better Energy Communities Project - Cromcastle Court (CODEMA)	Local	<p>Cromcastle Court is located just off Kilmore Road in Coolock, Dublin 5. It consists of eight four-storey blocks predominantly grouped around three square parking lots. The blocks house a total of 128 apartments. Prior to the upgrade, the buildings had a communal heating system which did not allow the residents any control over the heating in their individual apartments. The windows in the block and the boiler needed to be upgraded.</p>	<p>Due to the high annual cost of supplying heat and hot water to the eight blocks, DCC's Housing Department decided to use a Managed Energy Services Agreement (MESA) instead of carrying out the upgrades using a traditional contract and procedure.</p>
Dublin City Council Better Energy Communities Project - Greendale Court (CODEMA)	Local	<p>Greendale Court is located adjacent to the Greendale Shopping Centre, Kilbarrack, Dublin 5. Built for Dublin City Council circa 1978, Greendale Court consists of two two-storey blocks with an area of green space between them. The block contains 32 one-bed Senior Citizen apartments. Prior to the upgrade, the entire complex had a communal heating system which gave residents no control over their heating.</p>	<p>Upgrading the building fabric, installing heating controls, and a thermostat fitted in each apartment.</p>

Dublin City Council Better Energy Communities Project - Ballymun North-East (CODEMA & Dublin City Council)	Local	The three housing estates upgraded - Cromlech Court, Sandyhill Gardens and Burren Court - are located in the north-east of Ballymun.	Upgrading the building fabric, installing heating controls, and a thermostat fitted in each apartment.
3D Sustainable House (CODEMA & Dublin City Council)	National	This 3D house highlights the ways that you can incorporate renewable technologies and energy-saving measures into your home.	Increased awareness of possibilities of installing energy upgrades into houses. Visitors to the site can take 3d tours of a 3D sustainable house.
Imagine Energy Competition (CODEMA & Dublin City Council)	Local	This was a competition to select the winning design for an installation in Dublin City Centre that will engage citizens on the topic of renewable energy in a creative and innovative way. This was Ireland's work under the ACE project which is a renewable energy initiative which has been launched across several North West European countries. Ace promotes the importance of renewable energy in the everyday life of citizens, businesses and local government.	To increase awareness of renewable energy through creating an art installation in the centre of the capital city, Dublin. Also, the development of a marketing campaign to promote Imagine Energy, including the creation of promotional material such as posters and web content and the execution of a guerrilla-style campaign where bicycles in Dublin city were covered with promotional saddle covers to promote the launch of the competition, bringing people to the Imagine Energy registration via a QR code. Assisting with the organising of the Imagine Energy launch event and the winner announcement event Showcasing all competition entries via a Virtual Gallery Project management assistance throughout the competition process.

Renewable Energy Dublin (CODEMA & Dublin City Council)	Local	To promote the uptake of renewable energy in Dublin through free access to and interaction with up-to-date information on renewable technology installations and capacity in County Dublin.	Based on the consultant's database, CODEMA created an interactive map showcasing the renewable energy sites in Dublin and providing data on sector, fuel type, size and year installed.
Emerge – Sustainable Energy Community Dublin (CODEMA & Dublin City Council)	Local	To provide a platform for communications among stakeholders from the public and private sector, academia and the community and facilitate innovation, project replication and capacity building for a more sustainable energy future for Dublin City.	In 2012, the Sustainable Energy Community concentrated on a 4km2 zone in Dublin City Centre and included two additional nodes – Grangegorman and Ballymun. Projects mainly represented energy-efficient improvement measures specifically in public buildings and social housing. A steering committee was set up to facilitate effective communication between stakeholders and designers.
Green eMotion - Electromobility (CODEMA, ESB, TCD, Cork City Council)	Local	The Green eMotion project aimed to promote the mass deployment of electromobility across Europe. It supports the European climate goals to reduce CO2 emissions by 60% by the year 2050, through the research and development of road transport solutions.	A total of 42 partners involving car manufacturers, energy utilities, universities, and technology and research institutions across Europe joined forces in the Green eMotion EU Project to advance the use of electric vehicles. There were four partners based in Ireland – ESB, Trinity College Dublin, Codema and Cork City Council. The Irish partners are to develop the design criteria for electric vehicle charging networks, fleet management of electric vehicles, study the connection and construction techniques for charging points and more advanced charging systems are being developed as part of the project and some of these will be field trialed in

			Ireland.
EPLACE - ICT solutions for personalised energy use data (CODEMA)	CrossNational	EPLACE aimed to improve energy efficiency in buildings by increasing understanding of how a building and its occupants use energy using ICT.	<p>Publication of articles in specialized press, presentations at events and conferences, and posters. Two pilot buildings for this project – Tallaght Library and Finglas Swimming Pool – were chosen to audit and review the energy used in these buildings before the technical solutions were introduced.</p> <p>Solutions included:</p> <ul style="list-style-type: none"> WeSave: A smart energy monitoring system WeLight: Smart outdoor lighting monitoring and control system WeTalk: A collaborative platform and social network
Templederry Wind Farm, Co. Tipperary	Local	Templederry is a small rural village in Co. Tipperary. In 1999 there was population decline and few jobs for its population. In 2001 the Tipperary Energy Agency completed a feasibility study on wind, anaerobic digestion, biomass and hydro. Wind energy was chosen and investors for the project were sought.	This project comprised of the installation of a community owned wind turbine in Templederry
Power of One House	National	<p>This was an advertising campaign launched by the Irish government to induce more energy-efficient behaviour. The campaign targeted use of natural gas, electricity and transport fuel (petrol and diesel) both at home and at work.</p>	<ul style="list-style-type: none"> • To build awareness on types and sources of energy, costs and environmental impacts • To inform consumers about the impact that inefficient energy use has on costs and the environment • To encourage individual responsibility and change in behaviour in small ways every day • To empower individuals to recognise their role in the challenge and to use their power to collectively make the difference

Be Your Own Energy Manager (under HOLISTIC)	Regional	The Be Your Own Energy Manager Programme is a “train the trainer” programme which began in a housing estate in Dundalk; the housing estate is called Ard Easmuinn.	<ul style="list-style-type: none"> • 20% energy savings over a one year period • Change behaviour and allow householders prioritise no-cost and low-cost energy efficiency measures for their homes.
Power of One Community	National	A continuation of the Power of One Street projects and the Ard Easmuinn Estate Energy Saving project, but on a larger scale. It involves applying previously tried and tested approaches used to help reduce energy consumption in the home and while driving	<ul style="list-style-type: none"> • To encourage householders to understand that simple changes in their behaviour regarding energy use in the home (e.g. space heating, hot water, small power etc.), will allow them to make energy savings without spending any money • To encourage people to become more energy conscious in their everyday lives • To achieve a measurable change in awareness and behaviour regarding how they use energy in the home and while driving
An Taisce's Green-schools Programs	National	It is a long-term programme that introduces participants (students, teachers, parents and the wider community) to the concept of an environmental management system. Children are encouraged to understand their environmental behaviour and reduce consumption and to undertake these behaviours in the home also. It is envisioned that these changes in behaviour spread into the wider community.	<ul style="list-style-type: none"> • To increase the awareness of energy issues (esp. climate change) among the whole school and wider community • To improve energy efficiency and consumption within the school and the wider community.
Engineer's Week	National	Run by Engineer's Ireland, Engineers Week is a week-long programme of nationwide events celebrating the world of engineering in Ireland. This week-long event also incorporates a range of themes related to energy production and consumption that vary every year. These events are held in schools, universities, workplaces and a wide variety of other outreach avenues.	The aim of the week is to create a positive awareness of and spark enthusiasm about the engineering profession among young people with little or no engineering background.

Meath Energy Awareness Program	Regional	<p>This was a follow-on from the energy awareness campaign that was undertaken in Navan and was expanded to the whole of Meath county (population approx. 190,000). Energy Awareness Week aims to give people an opportunity to think about how they use energy and learn the ways we can become more energy efficient.</p>	<ul style="list-style-type: none"> • The campaign aimed to make people aware of the activities that were taking place locally during Energy Awareness Week. This is an annual event with various activities taking place nationwide. • Locally, in County Meath the Meath Energy Management Agency (MEMA) developed a plan for promoting energy awareness, energy efficiency and renewable energy in the Navan area and surrounds • To promote the rational uses of energy; • To promote renewable energy; • To provide and disseminate energy information; • To protect the environment; • To reduce waste of energy in all sectors of society; • To encourage replacement of imported fossil fuels with regionally generated renewable energy – in an effort to ensure security of energy supply where it is feasible.
Aran Islands Energy Co-operative	Local	<p>A community owned energy cooperative on the Aran Islands at the mouth of Galway Bay.</p>	<p>The residents of the three islands, are working towards becoming self-sufficient in locally generated renewable energy and free of dependence on oil, coal and gas by 2022.</p>
Atlantic Coast Energy Co-operative	National	<p>Atlantic Coast Energy (ACE) Co-op Ltd. is a for profit energy enterprise comprised of a consortium of individuals from North West Mayo with an interest in wind energy. According to the founders, the major obstacle to wind farm development is the substantial cost of seeking planning permission and the unpredictability of the outcome, with a risk of rejection.</p>	<p>ACE co-op seeks to enable communities to adopt the approach of a mainstream commercial developer, which spreads the risks involved, and makes community ownership of renewable energy generation more available.</p>

Bagentalstown Community Better Energy Project	Local	<p>The project was by Carlow Local Authorities who sought to implement a number of energy efficiency measures across a range of Bagentalstown domestic and community buildings. Bagentalstown is not served by the natural gas network and is thus heavily dependent on oil heating systems. The project management was led by Carlow Co Council, with involvement from the Carlow Kilkenny Energy Agency, the Local parish (who own the schools) and BEAM (who own the day care centre).</p>	<ul style="list-style-type: none"> • Energy efficiency improvements in 2 housing estates (20 dwellings), 3 schools, a VEC building, a day care centre and a council office building. • Installation of air/water heat-pump systems to replace oil boilers in a number of council dwellings, the installation of geothermal heat-pump systems in a number of larger council and educational buildings and increasing insulation levels in all buildings. • PV (Photo-Voltaic) panels were fitted to offset the increase in electrical consumption in all buildings due to the heat-pump installation. • A lighting overhaul to include the replacement of older bulbs with energy efficient CFL, LED and fluorescent lights.
Ballyleague Community Energy Project	Local	<p>The Tidy Towns committee of Ballyleague, a small town in the midlands of Ireland, wanted to add to their agenda the conversion of their town into a sustainable energy community. The first part of this programme is the Green Homes initiative. “The umbrella body for this project is An Taisce and it is about making homes greener in all utilities including water.</p>	<p>The purpose of the project is to educate, inform and implement a series of projects on sustainable waste and resource management in the wider Bally league area</p>

Camphill Ballytobin Energy Project	Local	<p>Camphill Ballytobin is a lifesharing community of about seventy-five people, some of whom have special needs, and who live together with volunteers of all ages and nationalities. Ballytobin was established in 1979 in the South East of Ireland as a therapeutic community for children and adults with multiple disabilities. As part of the DaysE ethical funding program, energy upgrades and renewable energy projects were developed in the community to ease energy costs.</p>	<p>Ballytobin is one of the few locations in Ireland that can boast being heated by gas generated through anaerobic digestion. The core community buildings benefit from being connected to a district heating network. Despite this there are a number of buildings beyond the feasible reach of the network which have significant heat loads. Also the community has a large annual outlay for electricity. To help reduce these costs the community are focused on trying to minimise the heat loads through better insulation, glazing and heating controls as well as trying to reduce their carbon footprint and cost by installing solar PV and a biogas generator.</p>
Energyhub – Carlow Kilkenny Energy Agency	CrossNational	<p>Energy Hub is an online database of energy data for the exchange of information and data related to energy. This is a collaborative project between Carlow Kilkenny Energy Agency and Data4Action and is a regional Energy Hub within a pan-European project including 12 other European partners.</p>	<ul style="list-style-type: none"> • Ensure that energyhub.ie is a centre for the exchange of all information and data related to energy and greenhouse gas • Collate energy data at national, regional and local level to produce information for decision makers on the production / energy consumption and emissions of greenhouse gasses • Establish key performance indicators to measure and monitor the impact of policies and actions implemented • Conduct extensive feasibility studies on local energy resources, needs and factors of consumption • Promote and encourage the use and implementation of renewable energy resources at a local and regional level

Clonakilty Community Cycle Scheme	Regional	Clonakilty Community Cycle Scheme has developed a rural bike rental scheme in Clonakilty, a rural community in County Cork with the support of a local community organisations and businesses. It provides low cost, short period rental of bicycles to the local community and tourists. It operates from drop and collection points located at the town's various hotels, who manage the hiring out of the bikes and payments using a software tool developed by the scheme.	<ul style="list-style-type: none"> • To reduce energy use in transport through providing bicycles to the community through a membership scheme. • To be the first rural community in Ireland to successfully develop a bike sharing scheme.
Sustainable Clonakilty Group - Clonergy 2020	Local	Sustainable Clonakilty was founded in 2006, with the hopes of encouraging the community to make small changes to reduce their consumption. The project Clonergy 2020 was set up to define a set of targets for reduction in energy consumption by 2020. The Clonergy project was set up to enable the transition of Clonakilty and the surrounding areas to energy neutrality through renewable energy, in order to support a sustainable economy and quality of life for the community by 2020.	<ul style="list-style-type: none"> • Understand how much energy Clonakilty uses • Conserve as much of that energy as possible • Identify local sources of renewable energy that could be utilised, including encouraging people to produce their own renewable energy • Encourage local public/private partnerships to establish small renewable energy power stations close to the town • Give a stable and predictable energy supply to the town at stable prices. • Retain money spent on energy in the local economy • Create employment • Encourage eco-tourism
Cultivate Celbridge	Local	Cultivate Celbridge aims to help the community, economy and environment in Celbridge and environs, to thrive now and be protected from future shocks. They are a network for cultivating ideas, actions, connections, local knowledge and mutual support. Some projects that will use the network may already exist and others may emerge when people come together in the network and as the network grows. However, the network is not about specific projects or activities.	<ul style="list-style-type: none"> • Help each other – as individuals, households and projects – in our various efforts to create a positive and resilient future for our community. Help can take different forms, such as labour, time, expertise, information, resources, encouragement, moral support, conversation or anything else that might be appropriate or useful in a particular situation. • Function as an egalitarian and safe public space for asking questions, discussing differences

			<p>and trying out ideas with others.</p> <ul style="list-style-type: none"> • Act as mini-communities within a larger community (the Celbridge area). • Name the resources that already exist in the network and the wider community and connect and draw on them where possible. • Generate new types of resources. • Act as a resource for the wider community. • Illuminate possibilities for our development rather than fix our expectations on defined outcomes.
Donate As You Save Energy (DaysE)	National	'Donate As You Save Energy' – a social enterprise with innovative fundraising mechanisms. Through DaysE, organisations carrying out energy efficiency measures can donate their energy credits or a portion of their energy savings to social enterprises and charities ("beneficiaries") to help them take action to reduce their energy costs.	Beneficiaries will benefit from reduced energy costs as a result of the donations that allow them to retrofit their properties and these savings can help them prioritise their spending on maximising their social impact.
Donegal County Council Buncrana Retrofit Scheme	Local	Donegal County Council is partnering with Retrofit Ireland, Letterkenny Community Centre, St Vincent de Paul (SVDP) charitable organisation for the homeless and Buncrana Town Council to do deep retrofits on 40 local authority homes in various estates in Buncrana.	The project included roof and wall insulation, high efficiency boilers with heating controls, solar water heating installation, air to water heat pump, chimney draught limiter, full window and door replacement and energy efficient lighting.
Dunleer Retrofit Scheme	Local	Dunleer is a village and townland in County Louth with a population of 5,340. Over 30 homes, two sports clubs and a local industry have undertaken deep retrofits thanks to a project spearheaded by the Dunleer Development Board.	To help the community transition away from excessive carbon use.

Eco-Unesco	National	ECO-UNESCO is Ireland's Environmental Education and Youth Organisation that works to conserve the environment and empower young people. ECO-UNESCO is affiliated to the World Federation of UNESCO Clubs, Centres and Associations (WFUCA). ECO-UNESCO provides online educational tools for the education of youth on the topic of the environment.	<ul style="list-style-type: none"> • to raise environmental awareness, understanding and knowledge of the environment among young people • to promote the protection and conservation of the environment • to promote the personal development of young people through practical environmental projects and activities • to promote the ideals of UNESCO
Energy Co-operatives of Ireland	National	They are a co-operative renewable energy consultancy promoting community access to the benefits of renewable energy. Their membership comprises of renewable energy experts, experienced co-operative regulations advisers, and expert project managers, financial advisers, and a highly skilled communications and media team.	<ul style="list-style-type: none"> • Support community based renewable energy co-operatives at every stage of their development • Guide groups through the legal process of setting up a co-operative • Advising them on their dealings with state agencies • Introducing them to their network of co-operatives where they can learn from best practice examples • Help groups communicate their message locally and nationally
Energy in Education	National	This website is designed for use in conjunction with the Energy in Education Pack as part of a range of supports designed to help school boards of management, principals, teachers, administrators, caretaking staff, pupils and parents to improve energy use practices and to reduce school operating costs while helping to protect the environment for future generations.	To practical guidance on managing energy in schools and information on involving pupils in the process, case studies, training opportunities and funding.
SEAI Energy Award	National	These offer a range of awards across a range of categories including community energy. This award recognises partnerships promoting sustainable energy practices at community level, delivering energy savings and socio-economic benefits. Projects included energy efficiency retrofits, renewable energy upgrades or behavioural change initiatives.	To encourage and reward excellence energy management and successful energy initiatives.

Green Awards	National	The Green Awards are the long-standing benchmark for excellence for those demonstrating best green practice in Ireland. Those that win an award get awarded a prestigious Green Awards trophy.	To encourage and reward excellence in green practice in Ireland.
Kerry Sustainable Energy Co-operative	Regional	A community based Co-Op actively promoting and supporting more local ownership of renewable energy, creating benefits for the local community	Local production of clean energy Local retailing of clean energy Developing local business based on clean energy utilising both local and national expertise Developing Kerry as a prime location for the testing of new sustainable energy technology prototypes Increase awareness in citizens and communities about the need for and benefits of renewable energy To engage with other co-operatives to improve regulative and legislative barriers to developing local energy co-ops
Kilkenny Retrofit Scheme	Regional	Kilkenny County Council Organised the project which involved substantial improvements in homes, community buildings, local authority premises and sports facilities throughout the county.	The project included roof and wall insulation, high efficiency boilers with heating controls, solar water heating installation, air to water heat pump, chimney draught limiter, full window and door replacement and energy efficient lighting.
LEAF (Laois Environmental Action Forum) Laois	Local	This group was set up in response to a need for people who are interested in the environment and in sustainability to network. The project, which encourages communities to self-organise to address environmental issues, meets once a month and the agenda is left open for discussion on all aspects of sustainable development.	To facilitate discussions on energy, food, healthcare, education, transport, employment, community, economy, waste, water and biodiversity
Mohill Community	Local	Leitrim County Council carried out an energy efficiency upgrade project in Mohill, County Leitrim, encompassing energy upgrades to residential and community buildings as well as upgrades to the public lighting.	Energy efficient measures to the 46 homes, most of which were fuel poor, included internal and external wall insulation, window and door replacement, heating and LED lighting upgrades. The

			purpose of these upgrades was to reduce energy poverty in the area.
RESPOND Housing Scheme	Local	This project was managed by Kingspan Energy, in conjunction with Respond Housing Association and Electric Ireland. This was a social housing scheme based in Athy Co. Kildare and Birr, Co. Offaly in the midlands of Ireland.	The project covered 71 homes and two community centres in two locations. Energy efficiency measures to these houses, 65% of which were fuel poor, included attic and wall insulation, boiler upgrades, the installation of heating controls and energy efficient lighting as well as energy-education for the occupants.
Tidy Towns	National	The national SuperValu TidyTowns competition is an annual competition organised by the Department of the Environment, Community and Local Government with the support of the main sponsor SuperValu and many other agencies. The competition involves participating areas being rated on all aspects of their local environment and prizes awarded to the best under many different categories. The overall winner is "Ireland's Tidiest Town" which is announced at a national ceremony in September each year.	To encourage communities to cater for their environment more. To monitor progress and provide feedback to communities each year to encourage continued development. To encourage communities to generate interest about the environment in their community and create a solid platform on which to raise issues with the relevant authorities. To be a development programme as much as a competition.
Transition Towns	National	TINI is the national network of Transition Initiatives in Ireland. They are part of the global Transition Movement that builds resilience and sustainability.	The group set up a facebook page for sharing among Transition Towns initiatives in Ireland & Northern Ireland. This network belongs to a worldwide initiative building community resilience to face the effects of climate change, peak oil and economic breakdown
RESTART (Renewable Energy Strategies and	National	RESTART (Renewable Energy Strategies and Technology Applications for Regenerating Towns) is a targeted demonstration project, promoted by the European	The demonstration project involved the different players of such complex urban projects:

Technology Applications for Regenerating Towns)		Commission and coordinated by RESET in conjunction with A.M. Barcelona, Glasgow, Grand Lyon, Turin, Rotterdam, Copenhagen, Porto and South Dublin.	city officers, promoters, professionals, local associations, technology manufactures, experts, realising through this cooperation 8 large scale building programmes in the 8 participating cities.
SEAI Better Energy Homes	National	Better Energy Homes is a Government programme which gives fixed cash grants for insulation and heating system upgrades, helping to make your home more comfortable and cheaper to run.	Offers applicants grants to undertake buildings upgrades. Offers higher grants and cash bonuses if applicants carry out 3 or 4 measures.
SEAI House of Tomorrow	Local	The House of Tomorrow programme, which aims to accelerate improvements in the quality of energy features in Irish housing.	The House of Tomorrow programme funds projects researching, developing and demonstrating more sustainable energy practices. Its focus is to stimulate the widespread uptake of superior sustainable energy planning, design, specification and construction practices in both the new home building and home improvement markets.
SEAI Schools	National	This is SEAI's website for primary school teachers. This site aims to help them bring the topic of energy into the classroom.	This site has some crossover with the Green Schools initiative and provides information on energy use in the home and tools for teaching children about energy.
SERVE Region	Regional	The Sustainable Energy for the Rural Village Environment (SERVE) Project was initiated in November 2007. The final event of the project was the SERVE Energy Week and Conference running from the 1st to 5th of October 2012. This week showcased the results from the project and plans for the future.	The SERVE in Ireland project had the following key objectives. Create a region in North Tipperary which is a leader in the implementation of sustainable energy actions. Reduce the energy consumption in 500 existing buildings by improving their energy performance through insulation and heating control measures Develop a eco-village with 132 houses in Cloughjordan which showcases energy efficient

			<p>design and is supplied by Ireland first renewable energy district heating system</p> <p>Increase the use of renewable energy technologies through supporting the installation of renewable energy heating systems and demonstrating the use of electricity from micro wind.</p> <p>Utilise technical and socio-economic expertise from European Partners to monitor performance and impacts in the region and to disseminate the results widely.</p>
Social Housing Action to Reduce Energy Consumption (SHARE)	CrossNational	<p>The SHARE project is a partnership between sustainable energy organisations working with social housing providers and residents in eight European regions; in the UK, Bulgaria, Estonia, France, Germany, Ireland, Slovenia and Sweden. Within an overall context of reducing carbon emissions and reducing the risk of fuel poverty, the project focuses on existing housing and aims to increase awareness of the opportunities and practical options for sustainable energy retrofit and behavioural change.</p>	<p>Local social housing energy forums were established in each area as a framework for engaging stakeholders in directing a programme of training, advice and awareness specific to local needs. Forums include social housing providers, residents, local authorities, fuel utilities and a variety of specialists working within the sector. - identify local training needs and agree a training programme - develop a local awareness campaign, backed up with specialist advice</p>
National Association of Building Co-operatives	Local	<p>This project saw 77 mainly energy poor homes upgraded from D1 Building Energy Rating to B3. The project also included energy monitoring of the savings, coupled with a trial Pay as You Save programme for residents.</p>	<p>The upgrades included attic insulation, cavity wall insulation, doors, windows, high efficiency gas boilers, remote access heating controls and high efficiency lighting. The Pay as You Save model includes a small increase in weekly rent reflecting the lower energy costs to heat the homes.</p>

THE NETHERLANDS (NL – 47)

Name	Scale	Description	Objectives
The Green Energy Train in The Hague: a demand-driven approach based on 'live energy'	Local	This initiative by the Dutch consultancy company AardeWerk, specialised in projects and education promoting a sustainable lifestyle, took place in The Hague. The overall aim was to reduce the energy, water and heat consumption of the selected apartment buildings by five percent.	The project was geared towards the development of a method to change consumer behaviour and save 5% energy in households (both electricity and gas). In addition, the project aimed at using this method in practice and testing its effectiveness. Secondary aims of the project were stimulating environmentally friendly behaviour of consumers in general, optimizing the cooperation between the housing association and the renters and strengthening the social cohesion within the neighbourhood.
The Green Energy Train project 2001-2003 in Leidsche Rijn, the Netherlands	Local	The initiative took place in a new district of the municipality of Utrecht where tenants of social housing that had moved into newly built houses (target group) were selected to participate in the project. The focus of the project was to accomplish a 10% energy saving by bringing about lasting behavioural changes among the target group. This goal has not been reached. Other goals involved the application of the educational method, testing its effectiveness, and measuring the impact on participants' behaviour. These goals have been partially achieved.	Testing the educational method applied with respect to its impact on participants' behaviour.
Warme Truien Dag (translation: Warm Sweater Day)	National	This initiative by the Dutch non-profit organisation Climate Association Netherlands (Klimaatverbond Nederland) and the children's show "Z@pp" on the Dutch channel Nederland 3 primarily targets schools and businesses to reduce CO2 emissions. Participants are invited to put on a warm sweater at a day around February 16th (Warm Sweater Day) and to turn down central heating in schools and offices. Thereby, the initiative aims to create awareness and save energy and reduce CO2 emissions on a national level.	The objective is to motivate project participants to save energy and reduce CO2 emissions. Increased awareness about climate change due to CO2 emission also plays an important role in the project.

Hier Klimaat StraatFeest (Neighborhood Groups and other Social Groups)	National	This initiative by the Dutch NGO Het HIER KlimaatBureau, which is concerned with climate change, involved the organisation of an 'energy-saving-competition' for neighbourhoods and other social groups. The overall aim is to encourage Dutch citizens to save energy.	Fostering awareness about climate change due to CO2 emissions and lowering energy consumption in general.
Energy Advice in Student Housing - Delft Energy Agency	Local	Since students tend to display rather unsustainable energy consumption behaviours compared to average households, the focus of this initiative was to make students more aware of this and to encourage them to save energy. Three measures were taken during implementation: survey, personal visits and advice on energy saving measures.	Fostering awareness about energy unfriendly behavior and lowering energy consumption in general.
The GreenHouse Project: evaluation of options for reduction of greenhouse gas emissions by changes in household consumption patterns	National	This initiative took a comprehensive and integrative approach to address the macro-level relationships between various sectors and the relation between production and consumption. The aim of this project was to evaluate different options to reduce greenhouse gas emissions through changes in household consumption patterns including changes in purchasing and household consumption behaviours. The actual reduction was measured by means of a survey and interviews among households.	Lowering energy consumption and CO2 emissions
Energie Boxen Nijmegen	Local	The initiative was concerned with low-income households in Nijmegen that received advice on how to save energy. Moreover, participants were provided a so-called 'customized package' including a number of energy saving items such as CFL light bulbs and draught-sealing tape to realize the objective of the project. The package and all advice were provided free of charge.	Lowering energy consumption in general
Energieteam Zeewolde	Local	The initiative was concerned with low-income households in Zeewolde. The participants that had been selected received (free) advice about energy saving and a so-called 'customized package', including items such as CFL light bulbs and other energy saving measures.	Lowering energy consumption in low-income households
Warm and Comfortable Living - Amersfoort	Local	With this initiative the Dutch municipality of Amersfoort targetted owner-occupants of houses built before 1985 as this denotes the year after which more attention was paid to insulation and energy-saving measures. The initiative focused on intensive communication with the target group through local TV and radio stations, information stands in public spaces and via direct mail.	The objective is to encourage as many owner-occupants as possible to request an EnergyPerformanceAssessment (EPA), and then to ensure that the recommended energy-saving measures are actually implemented.

Project saving pays off! (Project Besparen Loont!)	Local	This initiative offered low-income households in the municipality of Raalte free advice on how to save energy. Also, a box with energy saving items was provided to promote reduction of their energy consumption. The initiative was implemented by an 'energy team' consisting of two energy experts.	Providing low-income households with free advice and a package with energy saving tools with the objective to lower energy consumption in general
Energy Society Eindhoven (Het EnergieGezelschap - Eindhoven)	Local	Three private parties organized themselves in a foundation to initiate this project in Eindhoven. By means of an extensive advertising campaign the project tries to make people more interested in increasing the energy efficiency of their homes. The approach focuses on private home owners to encourage them to get started with energy saving measures, but also on the construction and installation sector with the aim to convince them that there are interesting market opportunities.	Lowering energy consumption through encouraging participants to invest in energy saving measures.
The smart neighborhood Den Bosch (De slimme buurt - Den Bosch)	Local	This initiative in the Dutch city of Den Bosch aimed at creating a sense of urgency around energy savings in neighbourhoods. The active involvement of citizen was a major goal of the project. Peer-to-peer communication through 'neighbourhood ambassadors' formed the major implementation tool to entice citizens to make changes.	Lowering energy consumption in general and raising awareness about the importance of investing in energy saving measures.
Toon Smart Meter	National	Toon is a smart meter introduced by a Dutch Energy Supplier (Eneco) with the aim to provide households with the opportunity to monitor their energy consumption through real-time as well as historic consumption data. Consumption feedback has been shown to support more sustainable energy consumption behaviours.	Lower energy consumption through consumption feedback.
Collective solarpark de Gruyter factory Den Bosch (Collectief Zonnepark de Gruyter Fabriek Den Bosch)	Local	This initiative is an example of an energy cooperative that jointly invested in solar panels in the Dutch city of Den Bosch. The municipality of Den Bosch has given permission to individuals and businesses to install the panels on the roof of a former coffee factory to generate their own energy.	Increase of renewable energy use
Energieteam Urk (Energieteam Urk)	Local	The initiative was concerned with low-income households in Urk. The participants that had been selected received (free) advice about energy saving and a so-called 'customized package' including items such as CFL light bulbs and other energy saving measures.	Lowering energy consumption in low-income households.

Regional Energy Performance Assessment Counter	Regional	This initiative by the EnergieBureau Amersfoort in close association with the Bunschoten-Spakenburg and Soest municipalities aims to keep the existence of the Energy Performance Assessment in the spotlight together with market parties, mainly through workshops.	The project follows four objectives. The first objective is to boost the number of requests for EPAs related to regular renovation or extension of houses built before 1985. The second is to encourage end-users of energy to take measures to save energy. The third objective is to work with natural contacts between market parties and end-users of energy in communicating about EPA. The fourth objective of the project is to turn market parties into ambassadors for EPA.
TuinWijk in the sun (TuinWijk in het Zonnetje)	Local	The initiative was started by three citizens in Groningen with the aim to make their neighborhood greener by encouraging fellow citizens to generate their own energy by means of solar panels. The initiative has been implemented through word-of-mouth propaganda and peer-to-peer learning. In addition, 'sun ambassadors' were appointed to spread the word and to encourage others to invest in solar panels.	Lowering energy consumption in general and promoting renewable energy
Bomenbuurt north in Roden (Bomenbuurt-noord in Roden)	Local	In the framework of the Buurtkracht (neighbourhood strength) initiative of the Dutch energy provider Enexis, a group of citizens seeks to increase the use of renewable energy technologies and to inform about energy saving measures that are relatively affordable and easy to implement. Implementation tools include public events to share experiences among participants.	Lowering energy consumption in general and promoting renewable energy

All electric neighbourhood Hoog Dalem (Hoog Dalem - 'all electric' wijk)	Local	This initiative in a neighborhood (Hoog Dalem) in Gorinchem focused on studying the functioning of new energy applications in smart energy. Hoog Dalem is part of the first practical test of organising the production and consumption of energy at the household and district level in the Netherlands. The participating households have a heat pump and sometimes solar panels. Residents examine how they can maximize their use of self-generated energy for their household appliances. Excess energy can be stored at the district level in batteries. The stored energy can then be used at any time of the day. Households are thus largely self-sufficient by monitoring, planning and adjusting their energy consumption according to local availability.	Lowering energy consumption in general and examining how self-generated renewable energy can be used most efficiently and effectively through innovations in a smart energy system.
Perspective zero (Perspectief op 0)	Local	This initiative aims encourage households in the Dutch municipality of Oostellingenwerf to collectively invest in energy saving measures. This would be more cost effective for the participants. An energy scan was provided to suggest the most suitable measures for investment.	Lowering energy consumption in general
A good example tends to be followed (Goed voorbeeld doet goed volgen)	Local	This initiative targetting low- and medium-to-high income groups in the Dutch municipality of Oostellingenwerf offered households insight into their energy consumption by providing smart meters for free. This was accompanied with efforts in communicating energy and financial saving potentials and in encouraging further investments in energy saving measures.	Lowering energy consumption in general through increased insight into energy consumption. An energy monitoring tool (smart meter) is provided to the participants that gives insight into energy consumption.
1000 smart households (1000 slimme huishoudens)	Regional	This initiative brought together the Dutch municipality of Groningen, the Hanze University Groningen, Dutch energy provider Enexis, the investment company Target Holding and five housing corporations. Collectively, these stakeholders set up an innovation project around the use of smart energy meters, comparing consumption patterns of households who only received a smart meter with households who also received an in-home display (EMS, energy monitoring system) to monitor their consumption more readily.	Lowering energy consumption in general

Coaches assist in energy saving in Voorst (Wooncoaches helpen bij energiebesparing in Voorst)	Local	The Dutch municipality of Voorst and the local energy cooperation EnergieRijk Voorst decided to train 'living coaches' to inform households about the possibilities to live more sustainably. Since the provision of general information has proven to be rather inefficient, this initiative set out to provide specific, tailor-made advice. The coaches are trained to inform citizens about best fitting available subsidies and energy saving measures.	Informing households about the possibilities of investing in more sustainable housing
Slim Net Lochem	Local	This initiative in the Dutch city of Lochem focused on better synchronising consumption patterns with intermittent energy supply from renewable sources. It is implemented by a consortium of organizations and companies to gain insight into strategies citizens can follow to prevent energy peaks and troughs. Moreover, the project aims to provide an understanding of how the supply of renewable energy can be better adapted to the consumption patterns of its users.	The overall objective of the initiative is to better align the demand and supply of renewable energy. This might lead to an eco-friendlier energy consumption.
Pilot Your Energy Moment (Pilot Jouw Energie Moment, JEM)	Local	This initiative by the Dutch network operator (Enexis) in the Dutch city of Zwolle consists of a research pilot to stimulate a more efficient and effective use of energy. Different devices and appliances, including energy monitors or smart washing machines, were offered alongside flexible energy rates to promote more sustainable energy consumption.	Lowering energy consumption through increased awareness of actual energy consumption
Cloud Power Texel	Local	This initiative by an energy cooperative on the Dutch island of Texel (TexelEnergie) aims to design a renewable energy supply concept to demonstrate how a community can become as energy self-sufficient as possible. The pilot project studied how to best monitor and charge for energy flows to best enable a community to be energy independent. The project called Cloud Power was implemented in close collaboration with energy supplier Alliander and consultancy company Capgemini.	Demonstrating the potential of the island to become energy self-sufficient
Project Energybox Utrecht (Project Energiebox Utrecht)	Regional	This initiative by the Dutch municipality of Utrecht and housing corporations aimed to stimulate households in the rental housing sector to save energy. Participants of the project receive personalized energy advice and an energy box with items to get started with energy saving.	Lowering energy consumption in general through saving energy

Saving energy as a quick gain (Energie Besparen Snel Verdiend)	Local	The initiative has been taken by the municipality of Nijmegen and assists households with a low-income to take energy saving measures. The project provides advice on energy saving measures and offers a box with energy saving items to the participating households for free.	The project follows three objectives. The first objective is to stimulate energy savings in ± 3,000 households with a low income. Next, to achieve a CO2 reduction of ± 455 kg per household. The third objective that the project has sought to realize is a saving on energy costs per household of an average of € 150, - per year.
Perspective project (Project Perspectief)	Cross-national	This initiative by the Dutch Government and has been rolled out across the Netherlands. The project investigated the possibilities for households to reduce energy consumption by adjusting lifestyles and consumption patterns. The twelve participating households were asked to try to reduce energy consumption by 40 percent within a number of years.	Lowering energy consumption through changes in lifestyle and consumption patterns.
Student Energy Race	Local	A Dutch Student Housing Center (DUWO) organised a student energy race in collaboration with parties such as green energy supplier Qurrent, the environmental consultancy SME Advies and the student association Minerva. The main goal of the project is to provide students insight into their actual energy consumption. The participating student houses received an energy box and an energy workshop during which the students were given tips how to save energy. Every month there was a central theme which was announced at the beginning of the month. At the end of each month, the best performing house received a monthly prize.	Lowering energy consumption through increased awareness of actual energy consumption
De Achterhoek saves 2009 (De Achterhoek bespaart 2009)	Regional	The province of Gelderland gave the municipalities in Gelderland subsidies to invest in energy saving measures at the household level, including roof or floor insulation, double-glazing or heat pumps.	Lower energy consumption in general
Energy box online app (Energie Boks App)	Cross-national	A Dutch energy supplier (Greenchoice) developed an app that households can use for free to gain real time insight into their actual energy consumption. The app has now been used on a cross-national level and aims to make households more aware of their energy consumption which leads to energy consumption reductions.	Lowering energy consumption through increased awareness of actual energy consumption by means of an online app that also provides recommendations on energy saving.

Neighborhood Transformer: co-creating sustainable energy in neighborhoods with public housing rentals (Buurtransformator: co-creeren met duurzame energie in buurten met sociale woningenverhuur)	Regional	This project involved the tenants of social housing to co-create ideas to improve their neighbourhood. Attention was paid to home renovation and local energy production from renewable sources as (partial) solutions to some of the challenges people experience.	Empowering low-income households to think creatively about neighborhood improvement
Beautiful Wildeman (Mooie Wildeman)	Local	'Mooi Wildeman' is a community project to foster energy awareness and smart energy behaviour in the Wildemanbuurt, a multi-ethnic low-income neighbourhood in Amsterdam. A series of workshops with residents was arranged, aiming to investigate public awareness of sustainability in the neighbourhood. The purpose of the workshops was to start a co-creation process with residents to make the Wildeman Neighbourhood prettier, smarter and more sustainable.	The motivation for this project came from a community workshop in the neighbourhood of Amsterdam West in the spring of 2014. A discussion with some residents of the Wildeman neighbourhood exposed a neighbourhood-wide question of energy use and potential savings. From this question it was decided to set up a co-creation process with the residents of the Wildeman neighbourhood.
Rent the sun (Huur de Zon)	National	Huur de Zon is an energy service company that offers hassle-free advice on and installation of solar panels to tenants. Tenants will pay a monthly fee alongside their rent while producing their own electricity and thus saving on energy bills.	Lowering consumption of fossil fuels
ThuisBaas	Regional	ThuisBaas, an ESCO created by the Dutch NGO Urgenda, aims to make housing in the region between Amsterdam and Alkmaar energy neutral by offering tailor-made advice with respect to available products, subsidies and financing mechanisms.	Lowering consumption of fossil fuels
Local Energy Saving Support (LESS) Fatima	Local	Within the framework of the Buurtkraft (neighbourhood strength) initiative by Dutch energy provider Enexis and supported by the Local Energy Saving Support Initiative of the student association of Tilburg University Enactus, this initiative aims to support a vulnerable community to invest in renewable energy technologies, save on energy bills and create jobs.	The main goals are to make renewable energy affordable and sustainable living achievable for everyone.

Drebbl	National	This app-based ICT service uses travel-related data of household members to regulate their home heating system on "autopilot".	Lowering energy consumption from heating
energieteam (energy team) Heerlen	Local	For the initiative, a team of energy coaches - the energy team - was formed that visited residents in rental apartments, helped fitting some energy efficient equipment (e.g. CFL light bulbs, radiator foil, low-flow shower heads) and provided energy saving advice. An additional goal next to energy savings was the re-integration of people into the labour market.	Energy saving,monetary savings, CO2 reduction,re-integration into the labour market
Bestaande Wijk van Morgen	Local	HEEM Wonen did a passive house renovation of 153 houses in Kerkrade while the tenants' lives continued as normally during the renovation. Because they needed 70% consensus of the tenants, there were a lot of personal "kitchen table talks" with households. After realising one demonstration house the tenants became enthusiastic and (almost) everyone agreed.	lowering energy consumption
Samen Schakelen	National	Following the successful examples of Transition Streets in the UK, the Dutch Transition Network thought of taking the same approach in the Netherlands: a group of some 7-10 neighbours get together on 7 occasions and share experiences and tips on how to save energy at home. The pilot was organised in Deventer.	lowering energy consumption
Energycouch	Regional	Energycoaches visit people at home and give home renovation and energy saving advice	lowering energy consumption
Energieloket	Regional	This online environment aims to inspire and inform people about investments in home energy renovation. It allows people to enter some data on their building and energy consumption and offers assessment-based advice. Moreover, the website offers listings of trusted and quality professionals to carry out renovation works.	lowering energy consumption
Servicepunt Energie Lokaal Limburg (Service point energy local Limburg) SELL	Regional	The SELL offers support and advice for all stakeholder groups interested in the energy transition, including communities that consider forming an energy-cooperative.	Switching to renewables
DUW Parkstad	Regional	Duurzaam Woonadvies (sustainable living advice) is offered to households for free. Coaches come to people's home, conduct an energy check and share tips in the areas of lifestyle, water, energy, housing and waste.	lowering energy consumption

Repair Café	CrossNational	The Repair Café International Foundation is a non-profit organization promoting a global movement of community-led repair workshops to address consumption and waste, and build meaningful relationships. It started in Amsterdam and spread quickly across The Netherlands, then Europe, and is now operating in 29 countries including the United States, Ghana, Brazil, and Singapore.	lowering energy consumption
Good Pear (Goeie Peer)	National	The Good Pear initiative was set up by the Stichting Natuur & Milieu (foundation nature & environment) and the Dutch utility companies Liander and Enexis. The initiative offered free 'energy management equipment' to households providing detailed insight into home energy consumption through an online interface and energy saving advice. Participants saved on average 13.7% on their energy bills, for example by changing the settings on their hot water boiler. Some also invested in energy efficiency such as insulation and many were planning further measures.	Reducing household energy use

SLOVENIA (SI - 50)

Name	Scale	Descriptions	Objectives
Porabi manj (Use less)	National	The initiative was implemented via webpage (application) called »My energy consultant«, where people can calculate their energy savings. The initiative aims at encouraging lower energy consumption among final customers. Since the webpage is in Slovene it is meant for Slovenian speaking territory.	Lowering energy consumption and change habits: Independent calculation of energy savings in heating, cooling (based on the size of the housing unit, devices), electrical appliances (based on which appliances someone uses) and mobility (based on which car and which fuels someone uses).
Gen I Sonce	National	It is an overall service offered by energy utility/company GEN I that facilitates the installment of solar power plant for households and small enterprises (via net-metering scheme). It includes individual counseling, preparation of project documentation, licensing, remote monitoring and maintenance. The configuration of solar power plant is tailored to the energy needs of the customer.	Increasing energy independence of households and lowering price of electricity for costumers (via net-metering scheme); boosting RES electricity production in the country.

Energetski center Petrol (Petrol Energy Center)	National	<p>It is a free energy consulting service provided by the energy company. The initiative is implemented with the info point in one of the popular shopping centers in Slovenia. The objective of the initiative is to increase energy efficiency of the heating and cooling systems in households. The main aim of the initiative is probably to attract consumers to buy company's services and products.</p>	<p>Lowering energy consumption; Changing the way people heat and cool their homes. To some extent also influences patterns of mobility, since it offers electric bikes.</p>
Slovenija znižuje CO2 (Slovenia reduces CO2)	National	<p>The initiative is a project that aims to present best practises that contribute to lowering the CO2 emissions and disseminating them among the general public as well as decision makers. With the promotion of good practises, the projects spreads knowledge and gives incentive to change. Priority areas: (1) energy efficiency, renewable energy and energy refurbishment of buildings, (2) sustainable management of forests and wood processing (3) organic farming, (4) Sustainable Development of rural communities (5) sustainable mobility (6) sustainable production and consumption, (7) adapting to climate change. The project lasted from 2012 until 2016.</p>	<p>Informing about good practice examples in the field of energy efficiency and renewables.</p>
NEP Slovenija	national	<p>NEP Slovenija is a web portal that aims to facilitate decision-making for investors in the buildings sector. It focuses on new buildings and building refurbishment. The project arises from the necessity of energy efficiency (EE) and the implementation of renewable energy sources (RES) in all areas of energy and with all stakeholders. It provides useful non-commercial energy-use related information primarily to households.</p>	<p>General objective: Establishment of a publicly accessible portal for diverse examples of good practices of living culture of RES and energy efficiency in individual and group housing as well as commercial and industrial facilities in Slovenia. Specific objectives: include: lowering energy consumption, applying renewable energy resources, improve buildings insulation, change ventilation practices,...</p>
ACHIEVE	Local	<p>ACHIEVE: European project for reducing energy consumption in low income (energy poor households). It was implemented in France, Germany, UK, Bulgaria and Slovenia. In all countries, practical activities of the project – energy advising in households – were implemented on local level. In Slovenia it was implemented in the Municipality of Ljubljana</p>	<p>Through energy advising in energy poor households: lowering their energy consumption; influencing their energy related behaviour.</p>

REACH	Regional	REACH: European project for reducing energy consumption in low income (energy poor households). It was implemented in Croatia, Macedonia, Bulgaria and Slovenia. In all countries, practical activities of the project – energy advising in households – were implemented on regional level. In Slovenia it was implemented in Pomurje and Zasavje regions	Through energy advising in energy poor households: lowering their energy consumption; influencing their energy related behaviour.
Energetska dieta (Energy diet)	National	Purpose of the project The Energy Diet was to encourage people through a brochure to implement simple and easily feasible measures to reduce energy use, energy efficiency and renewable energy sources.	Through brochure influence energy related behaviour – to lower energy consumption in households.
Bye, bye Stand-by!	National	The overall goal of the project is to inform people through a leaflet about the use of stand-by electricity and stimulate them to reduce its use.	Through brochure influence energy related behaviour – to lower energy consumption in households.
One tonne challenge	National	The purpose of the project was to show to households that economical and efficient use of energy has an important contribution to reducing greenhouse gas emissions. This was done with the help of an application for calculation of individual CO2 emissions and potential savings, that come from various measures or consumption change; and accompanying brochure.	Through application for calculation of individual CO2 emissions and potential savings, and a brochure influence energy related behaviour – to lower energy consumption in households.
Community based management of natural resources	Local	The project aims to inform, train and empower local communities in sustainable management of natural resources in their environment and therefore to accelerate the transition to low carbon, material efficient, sustainable society. One of the aims is focused on establishment of solar energy cooperative that would be owned by local citizens and other local stakeholders in Nova Gorica.	To empower citizens to take part in the production of electricity from RES (in form of community RES projects) and to raise awareness about RES, EE, and energy self-sufficiency
Uresničujmo, z energijo varčujmo! (Let's make it real, let's save energy!)	National	Project aims at reducing energy consumption in households. It is implemented via webpage application for calculation of potential savings if domestic electric appliances are changed with more efficient ones; and via advices for efficient use of energy at home.	Through application for calculation of energy consumption and savings of domestic appliances; and through advices for efficient use of energy at home to influence energy related behaviour – to lower energy consumption in households.

ECE – 100% renewable electricity for households	National	Aim of the initiative from Electric utility ECE was to provide 100% electricity from RES to all of their household customers.	Changing the energy source for electricity used.
Trainings »How to reduce energy consumption in households«	Regional	Focus implemented trainings for households on how to reduce energy consumption in households. Training included advices for energy and water savings (changing appliances and changing behaviour) and advices on how to implement energy audit at home.	Through training of households: advices for changing appliances for more energy efficient, lowering their energy consumption; influencing their energy related behaviour.
District heating on biomass in Vrasko	Local	Implementation of project for district heating on biomass in Vrasko municipality. Connecting local citizens to take interest and join the project.	Changing the energy source and system for heating in local community.
National energy advising network ENSVET	National	National program of the energy advising network ENSVET offers individual, free, independent energy consulting and information to households in the field of energy efficiency measures and renewable energy sources.	Through energy advising to households: informing them about most appropriate energy efficiency measures and RES possibilities, lowering their energy consumption; influencing their energy related behaviour.
Program for energy advising in energy poor households AERO of the ENSVET network	National	AERO is a national program for energy advising and reducing energy consumption in energy poor households. It is implemented by the national energy advising network ENSVET and is based on project REACH (Focus).	Through energy advising in energy poor households: lowering their energy consumption; influencing their energy related behaviour.
OLEA Research unit	Local	OLEA research and educational unit is designed as an energy polygon, which shows modern technologies for EE and RES in buildings. Part of the activities are also educational events and trainings for interested households (regarding energy efficiency in their homes).	Through energy advising to households: informing them about most appropriate energy efficiency measures and RES possibilities, lowering their energy consumption; influencing their energy related behaviour.
Self-sufficient living cell Ljubljana	National	Goal of the project is to stimulate the students through multidisciplinary student's work to develop, plan, co-build and monitor self-sufficient living cell. Cell is constructed as living unit for students and is used as lab. Cell is supplied by own produced solar heat and electricity and with tap rain water. Waste is treated completely by composting and plant type water treatment unit. The cell is placed in the center of Ljubljana (Slovenia) and is open for the general public.	To enhance thinking in the way of self-sufficient household.

Sončna zadruga (Solar Energy Cooperative)	National	Solar Energy Cooperative is a non-profit cooperative, whose co-founder is also Association of Municipalities of Slovenia. It focuses on advising to municipalities and local communities about sustainable energy development and various EE and RES community projects (mainla biomass district heating)	Through energy advising to local communities: informing them about most appropriate energy efficiency measures and RES possibilities and helping them with realization of projects.
Energy refurbishment of multiapartment buildings in whole residential area Planina, Kranj	Local	Project was initiated by local civic initiative Heating for Planina. It integrates heating system renovation and energy refurbishment of multiapartment buildings in residential area Planina Kranj (total 266.000 m2).	Lowering energy consumption for heating in whole residential area.
AFTER project	CrossNational	Actions in the project are dedicated to improve contribution of the maintenance and management of social housing organizations on energy savings. New measures for energy savings were tested in 18 pilot sites – social housing (3 in Slovenia)	Lowering energy consumption for heating.
Energy Neighbourhoods2 - The Energy Challenge (EN2)	CrossNational	Residential energy saving programme, where small communities (families, friends or colleagues) compete for saving the largest amount of energy only through changing their behaviour and everyday consumption patterns.	Changing behaviour and consumption patterns, related to energy usage.
SHARE: reducing energy consumption in non-profit buildings	CrossNational	Project aims to increase awareness on EE and RES measures in non-profit buildings (including residential) and to induce energy related behaviour change; with establishment of local/regional residential energy forums.	Awareness raising about EE and RES measures for residents and owners; encouraging behaviour change for EE
SAVE project	CrossNational	Project aims to increase awareness about energy labels, with help of an information package that contains brochure, web page and other dissemination material, combined with educational events.	Awareness raising about various energy labels; and indirectly promotion of environmentally friendly decision; such as EE measures and energy efficient appliances and buildings.
EI – Education	CrossNational	Purpose of the project is to create energy education program for nonprofit / social housing sector, with aim of awareness raising, motivation and training for the implementation of energy efficiency measures and energy refurbishment of buildings. It is targeting more the managers of the buildings, then its residents.	Awareness raising and training about EE and RES measures for managers of residential social housing buildings.

Renewable energy sources in municipalities in Primorska region	Regional	Purpose of the project is make investments into energy refurbishment of public buildings; and also to raise awareness about EE and RES measures. Part of the project was development of e-educational materials that are used for trainings for students and citizens.	Through web based interactive educational material influence energy related behaviour – to lower energy consumption in households.
Energy ViLLab	CrossNational	The intent of the project is to create a network of Living Labs in the cross-border territory between Italy and Slovenia and known as "EnergyViLLabs" (Energy Virtuous Living Lab), i.e., virtual labs where different private and public subjects can interact and experiment with innovative applications and solutions focused on energy from renewable sources, energy saving and sustainable forms of mobility.	Lowering energy consumption in general
OPANK	Regional	Purpose of the project is to raise awareness, train and consult farmers about renewable energy sources, increasing energy efficiency and more environmental friendly way of farming. This is done through informing, training and educating (workshops, energy advising activities, study tours of good practices)	Awareness raising and training about EE and RES measures for farmers.
mOIDom	National	mOIDom is a web-based and mobile application for monitoring (energy) consumption and costs of the household, with useful energy efficiency advices.	To promote energy savings and changing energy related behaviour and to increase energy efficiency of buildings.
EupeR (with energy efficiency against energy poverty)	CrossNational	The overall objective of the project is contributing to reducing energy poverty through practical and structural solutions.	Lowering households' energy consumption; influencing their energy related behaviour.
ENERGO OPTIMUM	CrossNational	Aim of the project was to develop several tools for attaining energy efficiency. It covers different target groups: households, public sector and business sector. Part of the project was pilot campaign »DIY – do it yourself«, directed to achieve energy efficiency in buildings.	To promote energy savings and changing energy related behaviour and to increase energy efficiency of buildings.
MOVE for energy sustainability	CrossNational	The overall objective of the project is contributing to the enhanced energy efficiency and promotion of RES with various activities (video material, manuals, cases of good practise), for various target groups, including households.	To promote energy savings and changing energy related behaviour and to increase energy efficiency of buildings.
SEOP – Social Electricity Online Platform	CrossNational	The aim of Social Electricity Online Platform (SEOP) project is to create online, interactive learning modules, educational services and a social ICT platform to help people become more aware of energy and sustainability, encouraging them to socialize about resource consumption and engage themselves in communities related to energy-saving practices.	Lowering households' energy consumption; influencing their energy related behaviour.

Climate Literacy	CrossNational	Project aims to raise the level of climate literacy; develop new learning strategies and techniques; encourage people to engage in energy-saving practices	Lowering households' energy consumption; influencing their energy related behaviour.
ELIH MED - A EURO-MEDITERRANEAN PROGRAM TO FIGHT ENERGY POVERTY	CrossNational	The project aims to carry out 10 pilot energy retrofit projects in 5 countries in the Mediterranean area of the European Union with the support of European funds, testing innovative funding mechanisms and comprehensive approaches integrating the occupants. 405 households spread into partner territories: 110 in Spain and Greece, 95 in Italy, 35 in Malta, 30 in France, 25 in Cyprus	The final target of the project are low-income households, which typically occupy energy inefficient housing and can not afford energy-efficient renovations that would allow them to upgrade their comfort.
EnergizAIR The renewable energy weather forecast - Europe	CrossNational	EnergizAIR adds positive indicators about the part of the energy needs that were covered thanks to renewable energy sources in the weather forecast. Goal is to set up an operational "renewable energy weather forecast" tool in France, Italy, Portugal, Slovenia and Belgium that will be widely broadcasted (4 million people reached at least) on a weekly basis at first. What do we put in the weather forecast? Production data and energy needs covering indicators about three technologies: PV, solar thermal and wind turbines.	Actual broadcasting of the renewable energy weather forecast in 5 countries One European website and 5 local supporting websites Interactive tools linking renewable energy with rational energy use Training for the weather anchors A methodology to transfer the concept to other countries
EEPLIANT: Energy Efficiency Compliant Products 2014	CrossNational	The objective of EEPLIANT 2014 (Energy Efficiency Compliant Products 2014) is to help deliver the intended economic and environmental benefits of the Ecodesign Directive 2009/125/EC and the Energy Labelling Directive 2010/30/EU by strengthening market surveillance and increasing compliance with the Directives and the relevant implementing measures. Implementing systems that coordinate, in the most cost-effective manner, the monitoring, verification and enforcement of ecodesign and energy labelling requirements across the European Single Market; Increasing the adoption of best practice amongst Market Surveillance Authorities (MSAs)	-Adoption by Member States of best practices on how to conduct market surveillance most effectively. -Greater compliance due to increased market surveillance of products in the EEA with the Implementing Measures of the Energy Labelling and Ecodesign Directives. -Increased awareness of (and respect for) market surveillance by industry and amongst users. -Market surveillance being undertaken in a more cost effective and consistent manner across the EEA with an overall greater impact in the product sectors investigated.

MOBISTYLE : MOtivating end-users Behavioral change by combined ICT based tools and modular Information services on energy use, indoor environment, health and lifestyle	CrossNational	<p>The overall aim of MOBISTYLE is to raise consumer awareness regarding their energy use, health status and house comfort, thus empowering consumers and providing confidence of choosing the right thing, by providing attractive tailor-made combined knowledge services on energy use, indoor environment, health and lifestyle, by ICT-based solutions. This awareness will support and motivate end-users to well informed pro-active behavior towards energy use, energy efficiency and health.</p>	<p>The objectives are:</p> <ol style="list-style-type: none"> 1. To make energy use and energy efficiency understandable and easy to handle 2. To provide understandable information to consumers on health and life style in relation to energy use 3. To motivate behavioral change of consumers/energy end-users by combined modular information on energy use 4. To foster new business models and applications 5. To deploy and validate the developed solutions and services in different building types and user types, demonstrating a significant reduction of final energy use, prompted by these solutions.
Creating liveable neighbourhoods while lowering transport energy consumption (PRO.MOTION)	CrossNational	<p>The project addressed car dependency on three levels: 1. improving the objective conditions for a way of life that consumes less energy 2. changing people's perception and mobility behaviour, and 3. motivating people to use less energy.</p>	<p>The objective was to change mobility behaviour by influencing people's travel decisions where the most important ones are made: at home. This was achieved by addressing three levels:</p> <ul style="list-style-type: none"> • Improving conditions for sustainable modes • Changing perception and increasing awareness of sustainable modes • Encouraging people to adopt a less energy consuming lifestyle.
European Young Energy Manager Championship (EYEMAN CHAMPIONSHIP)	CrossNational	<p>The basic idea was to organise and execute a stimulating and motivating international competition for awarding the best European Young Energy Manager Team. The teams were challenged with a task of energy management in the places where they spend most of their time: schools and homes.</p>	<p>The championship started after an energy training of teachers and students and concluded with the EYE Manager Award which was won by the team obtaining the greatest economic savings. The project included a "peer to peer transfer": EYE-students trained other students</p>

			concerning energy using products, energy saving behaviours and energy managerial criteria. EYE-teachers transferred the curricula and education tools and methods developed to their colleagues.
Persuasive force of children through education (FEEDU)	CrossNational	FEEDU was an educational project carried out in 9 European countries by 13 regional energy advice centres aimed at teachers and pupils of primary schools in order to obtain consciousness and results about renewable energy sources, rational use of energy and mobility.	Teachers were trained in energy education, they received the methodology and the necessary educational tools and experiences related to energy and mobility issues. A project-based learning plan in schools for a school year has the objective of changing attitudes of the pupils and their parents with respect to their energy consumption and mobility.
European Network of Information Centres promoting Energy Sustainability and CO2 reduction among local COMmunities (ENESCOM)	CrossNational	ENESCOM aimed at enhancing the role of local communities in mitigating climate change by creating a common methodology to promote and develop capacity building in energy sustainability and for the adoption of sustainable energy policies. The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans. The project promoted integration, the institutionalization of energy efficiency and the uptake of RES through widespread information and dissemination activities. It also promoted and fostered adhesion to the Covenant of Mayors' initiative.	The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans.

European Solar Days II (ESD II)	CrossNational	The European Solar Days II project aimed at raising European consumers' awareness about the potential and benefits of intelligent energy solutions, especially for solar energy - solar thermal heating and cooling and photovoltaic electricity production.	The basic strategy of the concept was to mobilise citizens and different entities (municipalities, NGOs and others) to organise events dedicated to the sun as a source of energy and its use. The wide range of events drew the attention to the potential of solar energy and helped inform potential consumers on how they can apply solar energy in their homes.
More biking in small and medium sized towns of Central and Eastern Europe by 2020 (MOBILE2020)	CrossNational	Frontrunner cities in Europe have a modal share of ~20% cyclists. Most cities in the CEE however are far below 20%. The goal of MOBILE2020 is to enable stakeholders in small and medium cities in these countries to increase their share of biking as a mode of everyday transport. Good practice examples and guidelines exist but it is crucial to translate and adjust them to national circumstances and promote them proactively to have a broad reach. It is crucial to inform cities systematically and to overcome the singular "light house approach" in order to support the EU2020-targets. Creating national working groups on cycling in the target countries will foster a long-term development of cycling and will contribute to keep expertise and exchange on a high level. MOBILE2020 will empower municipal planners and decision makers to make the right investments, improve their planning procedures and to trigger a change in mobility behaviour.	Improving stakeholder communication and networks in cycling planning; Capacity development and knowledge transfer; Enabling municipal planners and decision makers in the target countries; Spreading good practice and being a good example

Creating Actions among Energy Conscious Children (KIDS4FUTURE)	CrossNational	The Kids4Future consortium consists of 10 partners from a good mix of European countries. The project started in January 2007 and will last for three years targeting minimum 20 pilot schools in each partner country with a common energy story, TV, events and websites for children presented under one brand and common visual profile. At the core of the action are a common platform and one brand.	The platform is a universal energy story, which aims to bring in new dimensions and create understanding and enthusiasm for the energy subject, a sustainable future, and the global energy challenges. A strong brand will facilitate recall and strengthen recognition across channels, activities and countries. Pillars corresponding to children's own arenas support the platform: school, TV, event and web.
Integration of Active Learning and Energy Monitoring with School Curriculum (ACTIVE LEARNING)	CrossNational	The project promoted active learning and energy monitoring as a tool for energy education among children aged 6-12 years. The project aimed to change attitudes towards energy use among the future generation plus short- and long-term energy savings in school buildings and private households.	In order to ensure that energy efficiency, renewable energy and transport become a more permanent topic in primary school education the project tried to lay the basis for integration of active learning into the national curricula. Illustrative success stories are by far the best way to promote any topic. The project created forerunners by inviting at least 150 schools to test a toolbox of selected material, created especially for teachers for integration with KidsCorner.
The Energy Path: an e-learning platform for education of the new generations in the sustainable energy field (ENERGY PATH)	CrossNational	Energy-Path develops the first innovative e-learning platform at European level, based on open source technology, containing didactic resources on RES, RUE, Transport and mobility which allows the online updating of the Web's contents and didactic material.	This Platform will sensitize and train the target audience in the involved countries, promoting the development of a new model of environmental education, affecting the changes of attitude, creating a conscience of individual and collective commitment with the acceptance and boost of the clean technologies and its good use.

Refurb	CrossNational	REFURB is a consortium of 13 partners and a number of cooperators in a project exceeding borders in EU, to inspire homeowners to move a step further with their energy renovations and achieve zero energy renovation. Easy, economical and efficient. REFURB gives an overview in a one-stop-shop model and establishes local partnerships and energy solutions close to consumers in the participating countries.	The main aim of REFURB is to bridge the gap between the supply side and demand side by developing a methodology or roadmap, which will result in dedicated renovation packages for different market segments and regions in Europe.
EUper - With energy efficiency against energy poverty	Regional	Projects aims at addressing problem of energy poverty in two regions in Croatia and Slovenia through structural and practical solutions. They include giving advices and informing them on energy efficient measures to energy poor households, analyzing current programs on energy efficiency and energy poverty; building capacity for targeted stakeholders, preparing common recommendations for relevant stakeholders.	Empowering energy poor households to take actions to save energy and change their habits, empowering relevant stakeholders for dealing with energy poverty issue; and establishing energy poverty as an issue that demands structural solutions at local and national level.

SWITZERLAND (CH - 42)

Name	Scale	Descriptions	Objectives
Eco-social actions	Regional	Funded by the utility providers in Geneva and Lausanne, the initiative hired energy ambassadors (through a social reinsertion program) to provide new material arrangements to low-income households, including LED bulbs, electric kettles, shower heads, and coupons for buying more efficient refrigerators. The ambassadors also provided an on-site energy audit and gave tips on how to consume more efficiently (e.g., defrost freezers, turning off lights when not in use, etc.).	Rendering household energy and water consumption more efficient, by providing information / tips and new technologies.
Ecohousing	Regional	The SIG, Geneva's public utility company, has launched a new action « ecologement » (ecohousing), aimed at average households (owners of their apartment or villa, or tenants), building on the existing eco-social initiative (also documented, see above).	Rendering household energy and water consumption more efficient, by providing information / tips and new technologies

Doubléco - Activéco	Regional	The SIG, Geneva's public utility company, initiated an action first titled « doubléco » then rebrand « activéco », designed to reduce household energy consumption through a financial incentive. Savings made from reducing energy bills in a given year were given back to consumers through matching funds (for example, 100 chf in savings resulted in 200 chf given to the consumers). These actions are accompanied by information campaigns and follow-up efforts (household energy audits, consulting, comparing energy consumption between households, etc.). Since 2014, these actions have been rebranded « activeco »; the financial incentive for reducing household energy consumption is maintained. The launch of doubléco was accompanied by a guerrilla marketing and advertising campaign, where "energivores" were seen to be attacking the city (high energy consuming appliances, portrayed as monsters).	Lowering household energy consumption
Equiwatt	Regional	The SIL, Lausanne's electricity distributor, has launched an energy efficiency campaign including: « Contact-energy », an information centre; communications around « eco-gestes » (ecological actions), distribution of efficient technologies (e.g. LED bulbs), renovations for buildings (e.g. insulation) and subsidies (e.g. renewable energy installations). One-off initiatives also involve promotions around efficient appliances, offered at lower prices at retail (e.g. 50% off LED bulbs, water saving devices for only 2CHF, etc.)	Lowering household energy and water consumption in general, by providing informations and more energy efficient appliances at a low price
Suisse energy	National	The Federal Energy Office (OFEN) delivers informational and educational campaigns around energy issues to households, as well as financial aid (RE, insulation), the use of the "energy box" web interface by select households (for calculating energy consumption, with tips for reducing consumption), informative and playful videos (available on you tube) related to energy, one-off events around reducing energy (the « Energy Challenge », bringing together 53,000 users of this app, towards saving a total of 20 million kWh of energy).	Lowering energy consumption in general, promote renewable energy and more energy efficient buildings
OFF	Regional	A "community" initiated by the utility company of the State of Fribourg and their department of economic development and employment, to incite a State-wide reducing in energy consumption and become a best practice, through information, training, and prizes (competitions). The initiative targets households but also companies, schools, etc.	Lowering household energy consumption in general

Declic / Eco-family	Regional	Initiated by the regional utility company (Romande Energie), the web platform Declic delivers different challenges related to all consumption themes (food, mobility, holiday decorations, etc.), which households must then meet. They receive information, a kit, and can then share their experiences and received financial incentives for their participation (a 100 chf gift certificate for example). An energy consumption meter was piloted among 200 households. Finally, the « eco family » campaign was launched in partnership with Terragir, where households agreed to reduce their energy bills by 15%, by making use of a tool that tracks their consumption online (the declic platform), a visit from an energy advisory to the households (advice, eco-actions, etc) and the delivery of a kit.	Lowering household energy consumption in general
The sustainability of sustainable behaviours (La durabilité des comportements durables)	Local	This research-practice project brings together researchers and civil society (municipalities, utility providers, businesses) to analyse the effects of information campaigns on consumer motivation, in relation to energy consumption. The goal is to measure initiatives that are already in place, as initiatives by collectivities. In addition, the project will launch an experiment, which focuses on consumer engagement and feedback. The goal is to understand whether behavior change is consistent over time, and if there is spillover to other areas of action. A comparison of existing projects and this experiment will provide public authorities with a better understanding of how to improve their actions or design new interventions.	Understanding changes in energy consumption pattern
Eco energy Etoy (EEE)	Regional	Agricultural cooperative with over 750 members, developing and installing PV/solar panels. The installation is owned by the cooperative, which pays rent to the hosting farmer, who in turn invests in the cooperative and receives dividends. There is also an opportunity to participate in the installation of the PVs and become trained in this capacity. There are also plans to create a consumer cooperative, to create a direct relation between energy producers and consumers.	Promoting RE, RE farmers investment
Solar Plus	Local	Cooperative initiated by an engineer and pioneer in solar energy, influenced by german citizen's investment. 3 citizen solar roofs implemented (from 2008 to 2012, in Collombey-Muraz, Valais) in addition to Soleysin's solar plant (total: 420 m2 - 60,5 kW).	RE citizen investment, saving emissions, promoting RE

Soleysin	Local	In Leysin (Valais region), an association has joined forces with the cooperative Solar Plus (see above) to install a 174m2 - 27.5 KW PV on a roof. This installation of a solar roof by citizens and the promotion of renewable energies in the collective space (e.g. schools) was also coupled with a promotion of a local energy transition, and new solar installations (notably, vertical installations).	Fighting against climate change, saving emissions, promoting energy transition
Photovolpotat	Local	Association based in Undervelier and Souce (Jura), 250 inhabitants each, located in a natural world heritage site, and under a landscape value-creation plan, the residents wanted to integrate RE promotion through the Photovolpotat association and a participative process. As a result, a 200m2 (32kW) PV citizen roof was installed.	Promoting RE, saving emissions
Optima Solar schweiz	Local	Optima Solar Solothum is a cooperative founded in 2011 and initiated by a pioneer in RE after Fukushima, to implement solar plant and act in favour to energy transition. Ending 2014, 18 solar roofs (10 400 m2 - 1,6 MW) were implemented by 671 members-investors and a 100% citizen capital. This model has seduced other community and today, Optima Solar Schweiz is a federation of five energy cooperatives (Solothum, Worblental, Freiamt (Argovie), Fribourg-Freiburg and Neuchâtel). E.g. Neuchâtel's cooperative was founded in 2013 and initiated by citizens opposed to a gas-fired power station's construction in Cornaux and in favour of rational energy use.	Acting in favour to energy transition, promoting RE, citizen action and citizen investment, contributing to local economy and employment, promoting collective solar plant (medium roof from 300 to 500 m2), profitable and esthetic.
Climat in our hands	CrossNational	Initiated by LaRevueDurable and its association ("les amis de LaRevueDurable"), this initiative offers a website, tools to calculate his CO2 emissions and take actions to more sustainable way of life (informations, tips, good address and commitments to make specific action). It's addressed to individual, communities (like an action by 230 employees to reduce CO2 emissions during 7 months, or similar action by small citizen's groups), 2 Regions in Switzerland and France are engaged (Fribourg and Lyon) and one University / Campus (UNIL).	Lowering energy consumption in general (carbon emissions) like household consumption, mobility, waste, feeding, etc.

Equisol	Local	Production cooperative founded in 2012 (Sion) by 3 citizens towards solar energy production and energy savings (negawatts). Brings together citizens and institutions, wishing to invest in and develop solar energies, but also invest in energy efficiency measures. Through the negawatts project, Equisol helps companies diminish their energy consumption. The savings gained also serve towards Equisol investments and refinancing. The cooperative members are promised a stable and dependable profit on their investments, while supporting energy transitions. 5 citizen solar power plants have been implemented (465m ² - 72 kW).	Promoting RE and lowering energy consumption
Energy cooperative - Geranium campaign (Energiegenossenschaft)	Local	48h after the Fukushima nuclear disaster, a citizen group was formed to act in favor of the energy transition in the Bern area (federal capital of Switzerland). This group founded a solar cooperative, which launched new initiatives around energy awareness. In addition to citizen-based and collective installations, they launched an innovative campaign aimed at replacing the traditional geranium flower pots, often associated with Swiss chalets, with solar panels (PVs) - the idea that anyone can install PV on their balcony. They also offer technical advice for their installation, and offer a turnkey kit for balcony installations. In addition, they have also created a direct network bringing together solar energy producers and energy consumers, through a virtual and decentralized solar plant. Another projet aims to create a virtual Negawatt centre, allowing for the visualisation and representation of energy savings. They support a society based on 100% RE, consumption sufficiency and autonomy, and a solidarity-based economy. They are also promoting a community of « hélion-citizens » or « hélionaute », or people who are committed to signing a charter to adopt a life with less energy.	Promoting an energy transition by developing solar energy, lowering energy consumption in general, promoting and developing a citizen, self-consumption and decenzalised energy system
Sun-Power	Local	Canton of Geneva (Bernex town) association, promising solar energy (PVs). They assist households with solar installations, bring citizens together to create collective centres (2 plants, based on citizen roofs), and help promote the balcony solar installations (the « geranium flower » campaigned designed by Bern based energy cooperative) in French-speaking Switzerland, and offer ready-to-install kits in the Geneva area. They also promote the same "Hélio-citizen" campaign, aimed at citizens who would sign a charter to reduce their energy consumption (similar to the Bern example, see above).	Promoting an energy transition by developing solar energy and lowering energy consumption in general; promoting and developing a citizen-led, autonomous, and decentralized renewable energy systems

RE transition Delémont SID	Local	In the town of Delémont (in the canton of Jura), this initiative of the local utility provider has installed RE plants with citizen financial investment (7 solar power plants and 1 hydroelectric plan implemented). It will be the first utility provider in Switzerland to consume 100% local solar power (for electricity), self-produced. Investing in these installations are open to institutions, communities, enterprises, etc. Tramelan (in the canton of Bern) is also replicating this effort.	Promoting RE by citizen investment, creating a solar city with inhabitants' implication, inscribing solar energy in local culture and identity, favour purchase of solar energy by inhabitants.
Solar plant Yverdon-les-bains	Local	Solar plant implemented in 2012 with the inhabitant's financial participation, initiated by the local utility provider (Service des énergies d'Yverdon-les-bains)	Promoting RE by citizen investment, developing RE, reducing emissions
Local Energy Independence (Cernier)	CrossNational	The town of Cernier (Val-de-Ruz region, Neuchatel canton), with 2,000 inhabitants, has launched a research-action initiative under the EU Concerto III program, "Solution" and "Holistic". The aim is to achieve local autonomous energy, up to 90% and in 5 years. This entails renovating buildings towards energy efficiency (public and private), making residents aware of energy savings, building new efficient buildings (a school), and building a wood-based heating system, renewable energies (collective, individual, solar, wind, hydro, biogas, wood, etc.). Other communes involved in the project include: Hartberg (Austria), Lapua (Finland), Hvar (Croatia) and Preddvor (Slovenia).	Aiming for 90% energy independence (heating and electricity) in 5 years, lowering energy consumption, developing RE and more energy efficient buildings
Carbon Conversations	CrossNational	Initiated 10 years ago in the UK by a psychologist, Carbon Conversations are a participative method designed to learn how to live with less CO2 emissions; CCs have developed in Switzerland and France through the association "Les amis de LaRevueDurable" (Friends of Sustainability Magazine). Six thematic meetings are proposed, each 2 hours long, with the participation of 6 to 8 people (« the low carbon future », « energy at home », « mobility », etc.). The last meeting is about an individual action plan to reduce emissions over several years. Moderated by a facilitator, the sessions appeal to emotive aspects and values, to help people overcome barriers to reducing emissions. The facilitators receive a manual and certain games, which have been translated into French and adapted to the Swiss context. Three CC have been piloted in France.	Lowering energy consumption in general (carbon emissions) related to household consumption, mobility, waste, food, etc.

SolarSupport / Sebasol	Local	The SolarSupport association brings together 22 regional power plans in Switzerland, including Sebasol ("Self bâtr solaire": self-built solar) and its 4 regional plants. These association-based plants have the goal of rendering solar energy more popular, by informing and training individuals in the auto-construction of solar (DIY) and other REs, towards auto-construction and auto-management of installations (solar, wood heating, hydro, wind, etc.) Solar campus for young people are organized; solar power is constructed during this event, including awareness and training in relation to solar energy. 1,386 installations have taken place, solely in Western Switzerland.	Democratize solar energy, train individuals in the auto-construction of solar (DIY), support the local economy (buying from local providers, using local artisans, etc.), and training young artisans in solar energy (ambassadors of RE).
Sports club mobility intervention – national research project	Local	The goal of the campaign was to focus on a community of practice (sports club), and engage members in reducing the distance they drive by car for leisure activities. The idea was that sports teams and members of fitness-centres might be motivated to go to trainings by bike instead of by car during 6 weeks, with the possibility of winning a prize (500 CHF for teams, prolongation of season tickets for participants of Fitnesscup, sports membership).	Increase use of bikes for leisure / spots activities
Towards societal consensus – Futures Wheel approach, national research project	Local	Through interviews and the application of the Futures Wheel method, consumer-citizens were asked to think about measures that could impact their daily life but contribute to the Swiss Energy Policy. The Futures wheel method considered measures related to public transport availability, cost of fuel, and cost of private parking, and where asking to assess first and second level impacts of these changes. The project found that people think in terms of life quality and that time as a resource plays a very important role.	The goal was to investigate how individuals assess measures of energy policy in their role as consumers and in their role as citizens.
On débranche – national research project	Local	In partnership with Happy City Lab, a research team organized a community event engaging with two cooperative buildings; residents were invited to turn off all electrical appliances (except for refrigerators) and join in an "Disconnect" community event, by candlelight. Activities were designed for children, teenagers and adults (lantern making workshop, star gazing, fire dancers, etc.). Light in public spaces in the building and in the surrounding area were turned off or diminished.	Reflect on connectivity and experience living without electricity, and stimulate inter-generational discussions and experiences.

Unplugged kids day/week	Local	What first began as unplugged week in the City of Nyon, to reduce screen time for children, turned into unplugged day for the State of Vaud, inviting 1000 families to stop any screen time for children for a 24h period of the weekend. Free entry to a local zoo was offered for children under 6, with reduced prices for other children and adults.	Reduce screen time and connectivity.
Road Lab	Regional	In 2015, Groupe E created RoadLab – a double-decker bus designed as a laboratory for carrying out energy-related experiments intended for pupils aged between 13 and 16. This project was launched as part of the celebrations of the 10th anniversary of Groupe E and more than 100 years of activity of its parent company (Fribourg energy provider). Since the beginning of 2015, the mobile laboratory has been paying highly successful visits to all the secondary schools in the cantons of Fribourg and Neuchâtel, as well as in the Broye and Pays-d'Enhaut regions in the canton of Vaud, that are connected to the Group E distribution network. The 2016 Watt d'Or ("Gold Watt") in the "Society" category was awarded to Group E in recognition of its action aimed at bringing the fascinating world of energy closer to young adults.	Inform young people about energy consumption
Robin des Watts	Regional	An initiative by energy association Terragir and solidarity fund Terre des Hommes to a) encourage school children to reduce energy consumption for a duration of time, to then b) invest the savings in renewable energy installations in developing countries.	Reduce energy consumption (electricity and heating), and water, over a period of time and raise awareness.
Social Power Project	Regional	Social Power is a Swiss research project (universities and utility provider) based on Living lab - game interventions in Winterthur (canton Zurich) and Massagno (canton Ticino). It develops and tests an innovative game application with the intention to raise consumer's awareness on energy-saving practices at home. It explores the potential of social interaction and game mechanics in driving people towards long term behaviour change in the field of sustainable energy consumption. It offers two game contexts: a collaborative game (team of households) and a competitive game among different neighbourhoods. Smart meter data complements the user experience. One year after the intervention, researchers are in the midst of tracking electricity usage of participants in order to evaluate the long term efficacy of the provided feedback mechanisms.	Reduce household energy consumption

Energy week	Regional	This initiative, by the State of Geneva, targets all salaried employees of their public buildings. For one week, a series of actions were promoted to raise awareness around energy (eco-actions), which involved exhibitions, workshops, conferences, posters and other visual postings, Webnergie information, film projections, Negawatt flash mobs, personalized coaching, etc. Important changes in energy consumption were measures (10% reduction, due to changes in practices). Although the emphasis was on the workplace, the practices learned in this setting are no doubt transferable to the home.	Reduce energy consumption (electricity, heating, cooling)
Transition cities	Local	"Transition town" initiatives are also underway in select Swiss cities, such as Bern, Begnins, Zurich and Vétroz (Valais).	Reduce energy consumption in general
Big Effects - Swiss Energy Tour		This initiative proposes an interactive exhibit and small conferences, with experts available, to promote 180 actions to save energy related to five areas (homes, mobility, food, leisure and appliances). The actions are also part of an App, the "energy coach", which allows users to quantify and follow their KW, CO2 and Swiss Franc savings in real time. The originality of this initiative is that it is mobile and was presented in 28 Swiss cities over two years.	Reduce energy consumption in general
City of energy - Société 2000 watts	National	As part of the 2000 watt society, a Swiss initiativa to provide an upper limit to energy consumption, 412 cities in Switzerland have taken on the challenge to promote reducing energy consumption and investments in renewables. Members benefit from free technical advice, seminars where they can exchange experiences, information on communal energy policies, and financial support for energy-related projects.	The goal is to create a « virtual representation of the negawatt city », to quantify, spatialize and mutualize energy and CO2 reduction-related economies, at the scale of a city.
Bike4Car campaign	National	Each summer since 2015, car owners in Switzerland were invited to a free electric bike (e-bike) trial for a period of two weeks in exchange for their car keys. In total, almost 4 000 people participated in the Bike4Car campaign organized by the Swiss NGO myblueplanet. Followed by a university-based reseaech team, the goal of this study was to identify whether such a free e-bike trial impacts on habits related to car use and other means of transport.	Changing the way people get around.

Noe21 Communications Campaign	National	As association focused on reducing energy consumption towards a "carbon free future", with initiatives that include: café carbon, a discussion session with "experts" and the general public, along with other awareness building campaigns. They also offer a course for 10th grade students in one Geneva school, which they plan to expand to other schools by 2018. The course is titled «Climate change: causes, consequences and solutions».	Raising awareness towards achieving a carbon free future
Top Ten website	National	Online informatoin database, evaluating the energy efficiency of appliances and technologies	Providing information towards energy efficiency, using life cycle impact analysis
Energy observatory (Observatoire de l'énergie)	Local	Proposed initiative in the eco-neighborhood of Vergers (Meyrin), based on participative methods and to be launched in 2017. The goal is to bring the members of this community forward towards the 2000 watt society, based on the success of the Monthoux Minergie experience (see entry). Under the direction of the Terragir association and funded by the city of Meyrin, this project would encourage residents to reduce energy consumption. Involved training an energy ambassador for each building, doing events and activities in common areas, and providing eductional programs. A video is being produced, an energy hotline will be made available, and some kind of energy calculator for the community is being developed.	Participative methods towards reducing energy consumption among residents of an eco-neighborhood
Monthoux Minergie (buildings)	Local	An initiative by energy association Terragir to reduce energy consumption for heating (water, space), in three identical buildings. Based on the observation that the buildings had very different levels of consumption and that a certain expertise was necessary to manage these "high efficiency" (Minergie label) buildings. During "Energy Week" in February, energy experts were available in the buildings, a quizz was given to residents (who could win a prize), and different entertainig and informative stands were set up in the community.	Reduce the energy (gas) consumption of high-efficiency buildings (the Swiss Minergie label); involve consumers; understand the differences in consumption among 3 identical buildings.
Pumpipumpe	Cross-national	Launched in Switzerland in 2012, this initiative is about sharing appliances and other household items between neighbors. A set of stickers can be ordered online, which are then affixed to a household mailbox and indicate exactly what items are available. For example, a symbol for a landmower or juice blender would signal to neighbors that such items can be borrowed. Recently, pumpipumpe has been sending stickers across the world and especially across Europe, from France to the Czech republic.	Reduce the purchase of household items, while promoting sharing and community relations.

Publi Bike	National	Building on the local initiative Lausanne Roule, public bike is a bike rental service that has been launched across Switzerland - tied to the rail system and the Mobility car sharing cooperative. Users are offered a multi-modal pass (the Swiss Pass), allowing them to transfer from bike to train to shared car.	Reduce private car transport and increase biking
La Bonne Combine (the good deal)	Local	A space dedicated to repairing electronic devices, launched in the 1970s, and now the site of Repair Cafés in the Lausanne area. The founders have since launched a laptop computer which can be repaired entirely by the consumer (do it yourself movement).	Changing the way people buy (repair more)
Makerspace	Local	A warehouse space in the town of Renens (near the University of Lausanne campus) that allows people to use specialized machines and make things as well as repair things.	Changing the way people buy (make more, repair more)

3.2 20 REMAINING EUROPEAN COUNTRIES

AUSTRIA (AT – 55)

Name	Scale	Description	Objectives
Energiesparcheck für den gesamten Haushalt	National	HHs can fill in certain forms that will be evaluated (automatically). They get a result that shows how their energy consumption is in contrast to similar HHs	offering advice
Der 'grünste' Haushalt im "Ökoenergieland"	Regional	HHs compete against each other to find out who saves most energy. The most-improved HH wins an e-bike	lowering energy consumption in general
Die Umweltberatung	National	Information brochure (+ telephone contact) that gives advice on how to save energy. The brochure has a structure which allows the reader to immediately see, how much money could be saved if certain energy-saving strategies were applied	achieve lower energy consumption via a more efficient use of HH devices
TopProdukte	National	This is a website that highlights highly energy efficient HH products	make HH consider environment friendly devices
Förderungsaktion thermische Sanierung für Private	National	A website that informs about the possibilities of subsidies for HHs that want to renovate their homes	make people aware of funding options

SMERGY	National	SMERGY is a campaign for the young and gives tips for saving money and energy. Online tool with gaming character --> fun?	reach a specific (usually not specifically addressed) target group and help them save energy
Grüne Zone	National	Media Markt (electronics market) has installed a "green zone" for especially energy efficient products (cooperation with the department of the environment and topprodukte)	distribute energy efficient products + marketing
Österreich spart Energie	National	A document that provides tips for saving energy (HH + mobility)	inform HHs about ways to save energy
klima:aktiv Energiesparcoach	National	(Another) online tool that illustrates how much energy can be saved by applying certain "strategies"	save 6,7 Mil. tons CO2
Initiative Energieberatung Niederösterreich	Regional	The Region of Niederösterreich offers an energy consulting for HHs	the share of renewable energies on the overall consumption should be at least 50% by 2020
Jetzt umdenken - kleine Schritte mit großer Wirkung	National	Apparently, this is a website where information on mainly washing and heating can be found. Unfortunately, the official website cannot be found in the internet (no more)	
Niederösterreichische Energiespar-Initiative	Regional	Provision of an energy-saving-box for young families living in the region of Niederösterreich	save up to 125€ per HH and year
EVN Energieberatung	National	cost free energy consultation	make HHs aware of possibilities for saving energy
Energiesparen zum Weitersagen	Regional	Volunteers are trained to become energy experts. They are supposed to serve as multipliers that forward their (acquired) knowledge to their neighbours and peers	Train a few people to reach lots of HHs and make them save more energy
Ich tu's	Regional	Stakeholders, experts and the mayor of an Austrian town informed about the possibilities of saving energy. This took place several times in the course of an Eco-bus tour through the region of Steiermark	Make citizens aware of climate and energy problems
Sanierungswegweiser	Regional (maybe national)	A brochure informing about ways how to renovate homes	Give HHs tips about financing renovations
Wir leben 2000 Watt	CrossNational	A large campaign (10 participating towns) that tries to convince citizens to reduce their energy consumption so they only use 2000 watts	2000 watts society until 2050

Sonnenkraftwerk Zwentendorf	Local	Citizens of the city of "Zwentendorf" were given the opportunity to buy solar panels which, in return, they let to the local energy supplier	combine an attractive investment for the citizens with renewable energies
Kostenloser Stromsparcheck der Caritas	Regional	cost free energy check for low-income HHs	counter energy poverty, save money, protect environment
Haushaltsgerätetausch	Regional	HHs receive a bonus payment if they get rid of old, inefficient appliances	decrease the number of appliances with a high energy demand
Energiebewegung NÖ	Regional	This is a website where individuals can publish their own project. In the FAQs it says that small as well as large scale projects/initiatives are worth to be listed. There are presumably more than a hundred initiatives of which I will list some interesting ones (marked in green)	The initiative covers a wide range of fields. The key goal is to become energy independent (which I think they already did). Another goal is to motivate people by publishing the (energy related) efforts of others.
Rette deine Insel	National	This is an app for smartphones where one can learn strategies how to save energy while playing. On top of that, one can then do a "driver's licence" (without driving, see below) test and receive a certificate if he or she passed	prepare for energy licence (see below)
Energie-Führerschein	National	This is a course that people can take. At the end they write an exam and receive a certificate (if passed)	educate (especially) young people in the field of energy
R.U.S.Z	Local	RUSZ is a kind of a repair center that employs long-term unemployed. Broken HH appliances can be brought and repaired there. Furthermore some kinds of appliances are getting improved (e.g. transformed to use less energy)	1) lower unemployment-rate 2) repair devices (so that less new devices have to be produced) 3) make devices less energy-consuming
Sanierung Wohnanlage Johann-Böhm-Straße in Kapfenberg	local	Comp. to the German initiative "Haus an der Bugginger Strasse": it is a block built in the 1960s which has been turned into a energy plus house instead of having it torn down. Additionally to the restructuring there was a mentor put in place who has ever since been taking care of the needs of the house's residents (-> participation)	Energetically renovate houses in an urban area, train people to become more aware of their energy consumption
Autark leben	Local	This is a very small scale project: An Austrian family (named Pieringer Zimmel) decided to live self-sufficiently and to build a plus-energy house.	live self sufficiently (up to a certain degree), produce more energy than use

Energieampel auf „Grün“	Local	Another passive house (multiple apartments) where there is a light-strip attached that visualizes whether the produced energy is sufficient to cover the need of the house or not (comparable to a traffic light). This is supposed to add an emotional factor to the technical factors	make the residents aware of their energy consumption with an easy to understand measure. Hereby, the residents are supposed to be trained with the handling of a passive house
Energiechecker im Sprengel	local	Volunteers can register for a free energy-expert course. In exchange they must give at least 3 energy consultations	pass on knowledge about energy to others
Energiepartner von nebenan	local	very similar to "Energiechecker vom Sprengel" (see above)	pass on knowledge about energy to others
Stromsparmeister/Stromsparbuch	National	participating HHs receive an energy savings book, in which they can fill in the energy consumption of their appliances (washing machine, fridge, ...). They are borrowed a measure device for that time. With these information the HHs can go to an specially trained seller who can give advice on whether an exchange is sensible and on how to use certain appliances proberly	make HHs aware of their appliances' energy consumption, establish a network of trustworthy sellers, exchange old and inefficient HH devices
klimaaktiv Maker Challenge	National	In this initiatives individuals can win a prize by designing creative, sustainable, ... things	Awarding participants that combine creativity with sustainability
Kreative Restekueche	National	This is a document that gives inspirations on what to cook with left-overs	Reduce the amount of waste
Passivhausdorf zum Probewohnen	Local	In this village people can test living in passive houses	people interested in passive houses can gain an immediate impression of what it is like to live in passive houses
Der Haushalt als Aktionsfeld – Gute Ernährung und Nachhaltiger Konsum für Klimaschutz und Energieeffizienz	Local	People in HHs learn how to use energy efficiently. After assessing their improvements they serve as multiplicators and tell others how to save energy in HHs (similiar to GIY Ireland)	save a large amount of CO2 by involving a rising number of people
Gruppenthermographien als Motivationsfaktor für CO2 sparende Maßnahmen in der Sanierung	Local	Thermographic pictures of neighborhoods that are handed out to the residents for free	The pictures should improve HHs interest in retrofitting their homes

POWERHOUSE NEARLY ZERO CHALLENGE (POWER HOUSE NZC)	CrossNational	This initiative, run by Housing Europe in partnership with 13 housing federations across the EU, aimed to boost the number of nearly-Zero Energy homes across the continent by sharing ideas and expertise between Public, Cooperative and Social Housing professionals. It has provided a great opportunity for housing providers to share learnings, gather accurate performance data and make progress on energy efficiency throughout Europe.	building capacity and confidence among Europe's social, cooperative and public housing providers ahead of NZEB obligations; mainstreaming effective solutions; showcasing exemplary financing and organisational solutions used to reach nearly zero standards in existing housing in divided ownership
USMARTCONSUMER	CrossNational	The USmartConsumer project is aimed at enhancing European households (tenants and owners) from the improved information facilities of their smart meter, informing and involving them on the innovative services that help them to save electric, gas or district heating energy and get user-friendly interfaces, thus improving consumer engagement.	To promote the smart meter rollout and services to household sector (market activation and awareness campaigns) and lower energy consumption
SMARTER TOGETHER	CrossNational	SMARTER TOGETHER's overarching vision is to find the right balance between smart technologies and organizational/governance dimensions in order to deliver smart and inclusive solutions and to improve citizen's quality of life.	Large-scale replication will be prepared; 1) in the Lighthouse cities; 2) the Follower cities, which already selected their target area; 3) A Club of 15-20 cities, associate to intensify its roll-out, ensuring a broad geographical and climate coverage. Commercial exploitation is enhanced by the development of new business models for widespread use by the stakeholders. Contributions to open data are expected to create business opportunities as well as inputs to standardization work. Expected results are: 1) >151,800 m ² of refurbished buildings, primarily housing estate with a 50-60 % average energy and CO ₂ reduction; 2) 14.6 MW of newly installed renewable capacity; 3) 10/15 new e-mobility solutions for passengers and freight); 4) 1400

			created jobs, 130 M€ investments, all deployed with support of integrated ICT solutions and in dialogue with the inhabitants.
EEPLIANT : Energy Efficiency Compliant Products 2014	CrossNational	<p>The objective of EEPLIANT 2014 (Energy Efficiency Compliant Products 2014) is to help deliver the intended economic and environmental benefits of the Ecodesign Directive 2009/125/EC and the Energy Labelling Directive 2010/30/EU by strengthening market surveillance and increasing compliance with the Directives and the relevant implementing measures.-Implementing systems that coordinate, in the most cost-effective manner, the monitoring, verification and enforcement of ecodesign and energy labelling requirements across the European Single Market;</p> <p>-Increasing the adoption of best practice amongst Market Surveillance Authorities (MSAs)</p>	<ul style="list-style-type: none"> -Adoption by Member States of best practices on how to conduct market surveillance most effectively. -Greater compliance due to increased market surveillance of products in the EEA with the Implementing Measures of the Energy Labelling and Ecodesign Directives. -Increased awareness of (and respect for) market surveillance by industry and amongst users. -Market surveillance being undertaken in a more cost effective and consistent manner across the EEA with an overall greater impact in the product sectors investigated.

iBROAD : Individual Building (Renovation) Roadmaps	CrossNational	The iBROAD approach is an evolution of EPC and energy audit systems, aiming to become a real driver for renovation. The project will analyse and build upon relevant examples in Germany, France and Flanders, to identify the elements, develop an integrated concept, and produce modular tools, suitable for differing national conditions.	iBROAD-Plan and iBROAD-Log are expected to empower energy auditors and end-users with knowledge and experience of deep renovation in individual buildings, and to provide public authorities with real-life studies and analysis supporting deep renovation, both for individual buildings and as a long-term national strategy, increasing the renovation rate and depth across the EU.
IN-BEE : Assessing the intangibles: the socioeconomic benefits of improving energy efficiency	CrossNational	The main aim of IN-BEE is to address the theme of energy efficiency and to describe and provide evidence for the many intangible benefits of improving energy efficiency through a multi-disciplinary approach, combining methods, datasets, and techniques from cutting edge research in law and economics, humanities and consumer behavior, regulation and environmental sciences, as well as engineering.	<ul style="list-style-type: none"> • Developing a set of indicators to measure intangible benefits of energy efficiency • Developing Key Performance Indicators to assess the impact of energy efficiency strategies • Studying relevant cases and identifying best practices • Bridging policy makers and researchers through a web platform • Involving a vast audience of stakeholders
Creating liveable neighbourhoods while lowering transport energy consumption (PRO.MOTION)	CrossNational	The project addressed car dependency on three levels: 1. improving the objective conditions for a way of life that consumes less energy 2. changing people's perception and mobility behaviour, and 3. motivating people to live an energy saving life.	The objective was to change mobility behaviour by influencing people's travel decisions where the most important ones are made: at home. This was achieved by addressing three levels: <ul style="list-style-type: none"> • Improving conditions for sustainable modes • Changing perception and increasing awareness of sustainable modes • Encouraging people to adopt a less energy consuming lifestyle.

Energy, Education, Governance and Schools. A European school panel for involving local communities in energy efficiency programs (EGS)	CrossNational	The main actor contributing to involve a whole community and at the same time training the younger generations is the school. The project developed an actual framework for the implementation of energy efficiency at school including a manifesto and courses for schools staff and for students. The core aim of the project was focussing on the involvement of local actors in 4 processes: educational programmes, teachers training, involvement of the local productive sector and governance.	To enhance the key role of high schools in the involvement of local stakeholders (students, families, small and medium enterprises, local authorities, other schools) in the process of improving the energy efficiency and literacy of their communities.
TRIBE : TRaining Behaviours towards Energy efficiency: Play it!	CrossNational	TRIBE project aims to contribute to a citizens' behaviour change towards energy efficiency in public buildings, through their engagement in the experience of playing a social game, linked by ICT to real time data collected from 5 pilot buildings hosting around 1.300 regular users (employees, tenants...) and almost 12.000 eventual users (visitors). The targeted average energy savings in the pilots is 24,8% of the current energy consumption.	(1) an initial energy audit and diagnosis, (2) the development of a virtual pilot in conformity with the image of their real buildings, (3) an adapted ICT for energy efficiency deployment plan, (4) a funding scheme merging existing instruments with clean web solutions and (5) a user engagement campaign addressing the specific behaviour change challenges.
TOPTEN ACT : Enabling consumer action towards top energy-efficient products	CrossNational	TOPTEN ACT develops a comprehensive market transformation strategy targeting consumers, manufacturers, retailers, large buyers, consumer associations and other key actors in 16 European countries, covering a combined population of 447 Mio inhabitants. It works with these actors to help them embrace and promote energy-efficient products, so that they become the natural choice for consumers.	TOPTEN ACT impacts are both quantitative —savings of 331 GWh/year triggered per million € invested— and qualitative: markets are more transparent, media report on top efficient products, multipliers relay the Topten message to their target groups, consumers change their using and purchasing behaviour, retailers change their range and highlight BAT products, manufacturers shift their production lines.

Boosting efficiency in electricity use in 8 European regions (EL-EFF REGION)	CrossNational	The project boosts efficiency in electricity use in 8 European regions, it analyses and tackles areas with specific growth rates by developing regional plans and implementing targeted promotion and dissemination activities.	8 regional action plans to boost electricity efficiency 8,000 decision makers in public administration and businesses reached reaching 5% of the population in each region, equalling more than 800,000 citizens motivating 560 households and 240 companies/institutions to participate in the "Minus 10% action" 18 events with over 1,000 participants
Energy Check for Low Income Households (EC-LINC)	CrossNational	The project "Energy-Check for Low Income Households" (EC-LINC) established tailored information and consultation approaches to assist low income households in saving energy and water at home. No- and low-cost measures have been combined within an advice service that is especially designed to bring practical knowledge on energy efficiency and viable tips to households who may be in fuel poverty.	During the home visits, advice is provided on the efficient use of energy and water. Small devices such as compact fluorescent lamps (CFLs) and tap aerators have been provided for free. Each household received an individual household report with a description of their potential savings and further tips for changing behaviour.
Common appliance policy – All for one, One for all – Energy Labels (COMEON LABELS)	CrossNational	The ComeOn Labels project aimed at collecting, summarising and sharing the best European experience related to the energy labelling of household appliances and defining and applying the most effective supporting actions for the proper implementation of the new labelling scheme.	1. Understanding the legislation 2. Proper information on labels 3. Proper display of energy labels 4. Consumer awareness 5. Product replacement schemes
European Solar Days II (ESD II)	CrossNational	The European Solar Days II project aimed at raising European consumers' awareness about the potential and benefits of intelligent energy solutions, especially for solar energy - solar thermal heating and cooling and photovoltaic electricity production.	The basic strategy of the concept was to mobilise citizens and different entities (municipalities, NGOs and others) to organise events dedicated to the sun as a source of energy and its use. The wide range of events drew the attention to the potential of solar energy and helped inform potential consumers on how they can apply solar energy in their

			homes.
TRENDY TRAVEL; Emotions for sustainable transport (TRENDY TRAVEL)	CrossNational	<p>More than 50% of all human decisions are emotional - often against rational awareness -, and most marketing campaigns for cars, which cover more than 90% of all marketing expenses for transport, target human emotions - exploiting this fact. This constitutes a formidable barrier for marketing and awareness campaigns for sustainable transport. Mere information about the positive consequences of the use of sustainable modes helps - but will not do. Public transport, cycling and walking should be associated with positive emotions like excitement, fun, being moved (in the heart), lust for life, pride and so on. This is the aim to be achieved with the emotional approach, as developed in the EMOTIONS project and now to be continued and expanded in TRENDY TRAVEL.</p>	RENDY TRAVEL is designed to address current and potential users of clean urban transport, multipliers, practitioners and decision makers in public transport companies, energy agencies, educational institutions, municipalities and regions
From Estonia till Croatia: Intelligent Energy Saving Measures for Municipal housing in Central and Eastern European Countries (INTENSE)	CrossNational	<p>INTENSE aims at transferring intelligent energy saving measures for municipal housing from "old" EU Member States to "new" Member States and Accession countries in Central and Eastern Europe.</p>	Developed public awareness raising strategy and public information toolkits for municipalities for guiding of consumption patterns of inhabitants towards energy saving measures in buildings in Central and Eastern European Countries.
Windkraft	Local	<p>In a small town of Bruck an der Leitha, 52 local investors (mostly farmers) formed a cooperative. With the help of local NGO and a loan from European Investment Bank, they set up a wind power plant consisting of 12 turbines with a total power of 36 MW. The turbines produce energy for 27,000 households. All the energy is sold to the grid, because of the legal framework in Austria.</p>	The objective is to make the local town fully supplied by renewable energy (apart from the wind turbines, town is supplied also by biomass district heating, biogas plant and photovoltaic plant).
Responsible Cooling	Local	<p>Conventional cooling measures such as air conditioning are often associated with high electricity consumption. As a result of longer and hotter summers in recent years, Vienna started to experience a continual rise in energy consumption. City administration launched a campaign proposing to citizens alternative and eco-friendly ways to cool down during the summer heat.</p>	Change the way people cool themselves and their homes

SPIRIT - Energising Faith Communities (SPIRIT)	CrossNational	The project engaged faith based organisations in a programme that aimed to achieve measurable energy savings, CO2 emissions reduction and lasting behaviour change. There was limited experience of involving faith based networks in energy efficiency activities. Through SPIRIT, partners facilitated the mobilisation of these networks, by training and supporting members of faith communities to become volunteer Energy Champions, who delivered energy saving advice to fellow members of their communities.	Engaging faith based communities to raise awareness on energy efficiency Recruiting and training volunteer Energy Champions within these communities Organising advice sessions to share concrete energy saving solutions with interested households, helping them to reduce their energy consumption at home
TOGETHER on the move - Energy Efficient Transport training for immigrants (TOGETHER)	CrossNational	TOGETHER will develop and implement energy efficient transport training for immigrants. The training will focus on providing new immigrants with advice on energy efficiency in transport as well as providing them with essential skills in how to travel using sustainable modes.	enhancing the quality of life of immigrants, facilitating social inclusion, conserving essential energy resources and promoting energy efficiency training and learning

BELGIUM (BE – 48)

Name	Scale	Descriptions	Objectives
POWERHOUSE NEARLY ZERO CHALLENGE (POWER HOUSE NZC)	CrossNational	This initiative, run by Housing Europe in partnership with 13 housing federations across the EU, aimed to boost the number of nearly-Zero Energy homes across the continent by sharing ideas and expertise between Public, Cooperative and Social Housing professionals. It has provided a great opportunity for housing providers to share learnings, gather accurate performance data and make progress on energy efficiency throughout Europe.	building capacity and confidence among Europe's social, cooperative and public housing providers ahead of NZEB obligations; mainstreaming effective solutions; showcasing exemplary financing and organisational solutions used to reach nearly zero standards in existing housing in divided ownership

REScoop Wallonie	Regional	RESCOOP Wallonie federates 12 cooperatives, 5 of which currently generate electricity mainly from wind power. They still have other wind projects, biomethanisation and hydro-electricity. The member cooperatives bring together 7,500 cooperators and have raised over 10.7 million euros of capital. Together they have 12.2 MW installed. Soon they will manage 21 MW (including a production of electricity + heat by biomethanisation).	Ensure the supply of electricity for members of Walloon production cooperatives in a short circuit logic (our production for our members) / Ensure the establishment of a structure of social economy dedicated to the supply of electricity that is managed in an ethical and sustainable way and not for profit / Together ensure the reappropriation of strategic competences for the production and supply of electricity at the level of the Walloon Region
Wikipower	Regional	Wikipower SPRL is a private and independent company, created in 2011, whose mission is to make energy cheaper for citizens and businesses by associating them with collaborative projects and raising their awareness of energy. To fulfill this mission, Wikipower offers many services that have the distinction of being free and without obligation for its members	The organization of group energy purchases (energy and sustainable technologies) / Setting up a price comparator / The promotion of sustainable technologies
Rues en Transition (Streets in Transition)	Regional	Streets in transition are groups of six to ten people / families living on the same street. Participants choose low-cost, easy-to-implement actions to reduce their bills (energy, water, fuel, Etc.) and to reduce their ecological footprint. The support of the group creates an enthusiastic and effective dynamic. The street scale is an accessible level to bring about change. Recreating social ties with our neighbors makes it possible to get out of solitude and individualism: a first step towards better living in our neighborhoods.	A booklet containing elements of reflection and lists of concrete actions to be implemented simply; A presence at the first and last meeting to facilitate the start-up and follow-up process respectively; Assistance to the group in case of need: difficulty of cohesion, lack of dynamics, etc.
Power4you : A pooling of consumers to benefit from advantageous energy tariffs	National	Power4you stems from a Belgian cooperative which allows consumers to group themselves together in order to negotiate group prices with energy suppliers, therefore enabling them to make subsequent savings on their energy bill, to obtain improved benefits and to be listened more than if they took action alone.	- To negotiate low prices - To negotiate an energy offer which protects the environment (by promoting green energy) in view of sustainable development. - To allow market tensions to be avoided and facilitate the change of energy suppliers. - To allow people to make critical reflections on their consumption

			and to promote the processes of energy savings before looking for the lowest price possible.
Michamps4b : To become an active participant in one's energy consumption	National	Michamps4b is an online social network which enables people to simply, regularly and freely find out the energy consumption of their residence in order to reduce it and equally detect situations of energy poverty.	To be an active participant in one's energy consumption: Our action provides a tool to the internet users of the whole world which enables them to measure their consumption. To detect situation of energy poverty: set up a system capable of detecting energy poverty with the aim of bringing internet users closer to social organisations by using the platform and therefore coming out of energy poverty more quickly.
CLEAR Consumers to Learn about, Engage with and Adopt Renewable energy technologies	CrossNational	CLEAR's objective is to lower market barriers to the purchase of RES, hence raising consumers capacity to take informed decisions. The result should be a significant uptake in the purchase of renewable energy solutions (RES) by European consumers and therefore an important contribution to the 2020 European targets	The aim of CLEAR - enabling Consumers to Learn about, Engage with and Adopt Renewable energy technologies - is to actively guide consumers through all the stages leading to the purchase of domestic renewable and low-carbon energy technologies. The main needs of a home, including heating/cooling, electricity and domestic hot water, are addressed through a consumer-centric approach and actions that are meant to lead to the purchase of renewable energy technologies such as solar photovoltaic, solar thermal, heat pumps and wood pellet stoves (for space heating).

Energy Challenge	Regional	<p>By participating in the Energy Challenge, households benefit from a free, professional and playful accompaniment to consume energy in a more rational way.</p> <p>By following the evolution of your energy meters for 4 months, you play the game with other households who take up the challenge ...</p>	Encourage households to consume less energy.
Le Prêt vert bruxellois	Local	The Brussels Green Loan is a zero interest rate energy loan set up by Brussels Environnement in collaboration with the alternative credit cooperative CREDAL. It allows Brussels residents with modest incomes to access financing at 0% interest to carry out work to improve the energy efficiency of their home.	<p>Two categories of work can be financed:</p> <ul style="list-style-type: none"> - Insulation and ventilation work - High performance heating
B.L.E.D.	Local	Spring 2012, a dozen inhabitants of Berchem-St-Agathe, involved in various citizen initiatives already existing, decides to respond to the call for projects "Quartiers durable" launched by Brussels-Environment. The project is named B.L.E.D., for Berchem Local et Durable. June 2012, the BLED project is selected and will benefit from an acknowledgment from Brussels-Environnement, as well as an accompaniment for 18 months.	<ul style="list-style-type: none"> -collective learning / social connections, -economic / mutual assistance, -natural resources, -quality of life.
Energic'a brac: an educational and playful tool to better understand the energy market in Belgium.	National	<p>Support Center and the Energie Info Wallonie, Energic 'à brac support service is aimed at professionals in the social, education and energy sectors and Aims to better visualize the path of energy, from the source to the place of consumption.</p> <p>Energic'a brac is the continuation of the Eco Watchers / Energy Conservation Trace project, co-created by the non-profit association Empreintes and the CPAS of Namur, and addressing energy issues with people in precarious situations.</p>	<p>Energic 'à brac has been created for pedagogical purposes and has the following objectives: to visualize the organization of the liberalized gas and electricity market and all of its actors; Understand the role of different actors in the market and help the consumer know how and to whom to turn.</p>

FRCE Fonds de Réduction du Coût Global de l'Energie (French: Global Energy Cost Reduction Fund; Belgium)	National	<p>In its statutes it takes up its social objective as "the study and implementation of projects by intervening in the financing of structural measures to promote the reduction of the overall energy cost in private dwellings for the target group of poorest people and the provision of cheap loans for structural measures to promote the reduction of the overall cost of energy in the dwellings of private persons and serving as their main residence.</p>	<ul style="list-style-type: none"> • Act on behavior (without financial investment, potential savings of 10 to 30%). This requires adopting new practices to be preserved over time. On this subject it may be useful to consult the brochure on the website of the Walloon Region: "101 smart ideas for saving energy at home". • Investing significant amounts of money in works such as roof insulation, walls, floors, chassis replacement, boiler, solar thermal panels, etc. (potential savings of some 10% to more than 50%). However, the latter is closely linked to the financial capacity of households. Of course, bonuses and other benefits are positive incentives.
Les passeurs d'energie Network	National	<p>Since 2006, ASBL Passeurs d'Energie has brought together individuals who have improved the energy performance of their homes and who wish to share their experience in this field (energy saving systems, renewable energies, behavior change, ERU , ...) with other citizens to encourage them to also take action.</p>	<p>The objective of the Energy Passeurs is to allow anyone wondering about the energy issue or having a project to improve the energy performance of their home, but hesitant to actually take action, To find concrete, source-based and non-commercial information on the rational use of energy and renewable energies.</p>

About EnergizAIR The renewable energy weather forecast - Europe	CrossNational	EnergizAIR adds positive indicators about the part of the energy needs that were covered thanks to renewable energy sources in the weather forecast. Project aims to set up an operational "renewable energy weather forecast" tool in France, Italy, Portugal, Slovenia and Belgium that will be widely broadcasted (4 million people reached at least) on a weekly basis at first. What do we put in the weather forecast? Production data and energy needs covering indicators about three technologies: PV, solar thermal and wind turbines.	Actual broadcasting of the renewable energy weather forecast in 5 countries One European website and 5 local supporting websites Interactive tools linking renewable energy with rational energy use Training for the weather anchors A methodology to transfer the concept to other countries
ecobuild.brussels THE NETWORK OF BRUSSELS' SUSTAINABLE CONSTRUCTION AND RENOVATION ACTORS	Regional	Ecobuild is a network gathering more than 150 members & partners, all active in that innovative sector in Belgium. It brings together companies that are active in this sector and fosters their business development. ecobuild.brussels aims to develop and structure the offer in sustainable construction in the Brussels-Capital Region to help companies become more competitive and win new markets. As an actor of change, ecobuild.brussels focuses its action on the renovation of the building stock and on the circular aspects of construction.	CONNECT - Bring together players in the construction sector to connect them, foster collaborations and catalyze new public or private opportunities HIGHLIGHT - To be the showcase of its members and the sector in order to value them and be the point of relay of their difficulties towards the clusters' partners INSPIRE - Organize a monitoring of innovative practices, facilitate the sharing of these practices within the sector and inspire new sustainable business models DIRECT - To orient companies' demands towards the most competent actors and to support them in their development
La maison de l'habitat durable	Local	Located in Charleroi, the house of sustainable housing is a place of information and meeting where you will find concrete help in renovation, construction and sustainable housing. It includes: -Workshops and information sessions, for individuals and professionals, that address the many themes of renovation and sustainable construction. -A personalized support service to help you carry out your project. It's free and by appointment. -A virtual library to educate you before acting	The themes are very varied: internal pollution of the dwellings, trio insulation - airtightness - ventilation, manufacture of natural paints, coatings with clay and lime, grouped purchases, realization of individual lagunages, etc.

Energivores	National	<p>This calculation module, launched in December 2006, aims to encourage everyone to reflect on their energy consumption. It is a practical instrument for identifying energy hiding in your home and reducing its use. Most importantly, it is an effective guide to selecting the most energy-efficient new appliances and products.</p>	<p>Calculate the costs (in Euros) related to energy consumption and the environmental impact (in CO2)</p> <p>With practical advice, reduce the consumption of your current devices and products</p> <p>Identify new devices or products available on the Belgian market and compare their costs and their long-term environmental impact</p> <p>Check whether it is cost-effective to replace an old appliance with another that consumes less, and calculate the depreciation period</p>
TRIME	CrossNational	<p>TRIME is a project that can help social housing residents to reduce their energy use and cost of bills. The project has explored ways to support social housing residents to save energy. There are 7 social housing organisations that are participating in the project.</p> <p>This website provides you with advice on how to get social housing residents involved in saving energy, and how to set up an Energy Ambassador Model. See the Resources section for a full guide on what to do, and for training materials.</p>	<p>To reach residents through the Energy Ambassador model (The Netherlands and Belgium)</p> <p>To reach residents through promoting the Challenge</p> <p>To measure the energy saved by residents</p>

SMARTER TOGETHER	CrossNational	SMARTER TOGETHER's overarching vision is to find the right balance between smart technologies and organizational/governance dimensions in order to deliver smart and inclusive solutions and to improve citizen's quality of life.	Large-scale replication will be prepared; 1) in the Lighthouse cities; 2) the Follower cities, which already selected their target area; 3) A Club of 15-20 cities, associate to intensify its roll-out, ensuring a broad geographical and climate coverage. Commercial exploitation is enhanced by the development of new business models for widespread use by the stakeholders. Contributions to open data are expected to create business opportunities as well as inputs to standardization work. Expected results are: 1) >151,800 m ² of refurbished buildings, primarily housing estate with a 50-60 % average energy and CO ₂ reduction; 2) 14.6 MW of newly installed renewable capacity; 3) 10/15 new e-mobility solutions for passengers and freight); 4) 1400 created jobs, 130 M€ investments, all deployed with support of integrated ICT solutions and in dialogue with the inhabitants.
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EEPLIANT : Energy Efficiency Complaint Products 2014	CrossNational	<p>The objective of EEPLIANT 2014 (Energy Efficiency Compliant Products 2014) is to help deliver the intended economic and environmental benefits of the Ecodesign Directive 2009/125/EC and the Energy Labelling Directive 2010/30/EU by strengthening market surveillance and increasing compliance with the Directives and the relevant implementing measures.-Implementing systems that coordinate, in the most cost-effective manner, the monitoring, verification and enforcement of ecodesign and energy labelling requirements across the European Single Market;</p> <p>-Increasing the adoption of best practice amongst Market Surveillance Authorities (MSAs)</p>	<ul style="list-style-type: none"> -Adoption by Member States of best practices on how to conduct market surveillance most effectively. -Greater compliance due to increased market surveillance of products in the EEA with the Implementing Measures of the Energy Labelling and Ecodesign Directives. -Increased awareness of (and respect for) market surveillance by industry and amongst users. -Market surveillance being undertaken in a more cost effective and consistent manner across the EEA with an overall greater impact in the product sectors investigated.
STEP_BY_STEP	CrossNational	<p>Contrary to traditional door-to-door canvassing, often seen as a one-shot deal, our project solicits targeted households regularly through email or by phone and accompanies them over a 20 month period towards the adoption of energy-saving practices.</p> <p>To reduce the attitude-behaviour gap, our system uses proven communication techniques that push towards action.</p> <p>Households are regularly encouraged to try new ecological gestures adapted to their level of motivation. Feedback is given and social norms are used.</p>	<p>The main goal of the STEP_BY_STEP is to maximize the number of households in a given area that significantly change their behaviour at home. Desired behaviour change includes reduced electricity consumption and the investment in energy efficient products and/or high quality renewable energy products.</p>
iBROAD : Individual Building (Renovation) Roadmaps	CrossNational	<p>The iBROAD approach is an evolution of EPC and energy audit systems, aiming to become a real driver for renovation. The project will analyse and build upon relevant examples in Germany, France and Flanders, to identify the elements, develop an integrated concept, and produce modular tools, suitable for differing national conditions.</p>	<p>iBROAD-Plan and iBROAD-Log are expected to empower energy auditors and end-users with knowledge and experience of deep renovation in individual buildings, and to provide public authorities with real-life studies and analysis supporting deep renovation, both for individual buildings and as a long-term national strategy, increasing the renovation rate and depth across the EU.</p>

SAVES2 : Students Achieving Valuable Energy Savings 2	CrossNational	<p>Students Achieving Valuable Energy Savings 2 (SAVES2) will catalyse sustainable energy behaviours among over 219,000 university students in seven countries to help them reduce their exposure to fuel poverty. It incorporates two strands that engage with students living in university accommodation (Student Switch Off) and in the private-rented sector (SAVES).</p>	<p>Student Switch Off is an energy-saving competition that will reach 38,000 students living in 144 dormitories in 14 universities of the partner countries in each academic year from 2017/18 to 2019/20. By identifying and training student ambassadors in each dormitory, and by motivating the ambassadors to encourage their peers to save energy, we will create a race between students in dormitories, each competing to save the most energy and win prizes. It will tap into online student communities through social media, using engaging digital communications (quizzes, photo competitions) to raise awareness of how students can save energy in a fun way. The centrepiece of each competition will be an energy dashboard that updates students in near-real time on the performance and position of their dormitory in the competition – providing feedback and encouraging further action.</p>
2gether4vulnerability	CrossNational	<p>2gether4vulnerability is a 36 month European 'market activation - policy orientation' project to tackle fuel poverty and support vulnerable consumers. It answers the call requirements to actively engage consumers in the energy market and positively change behaviour in relation to energy consumption and to influence design of policy at all levels to tackle fuel poverty issues.</p> <p>Based on the conclusion of the "Energy Citizens' Forum", it combines activities that address both energy and social issues as fuel poverty is not only an energy issue nor can it be tackled in isolation of the bigger issue of poverty,</p>	<p>Encompass the recruitment of persons with direct experience of vulnerability/fuel poverty, training them to increase their employability skills but, moreover, to maximise on the peer to peer benefits that they can offer in provision of advice . With specialist VCEA and advisory strategic steering committees each nation will undertake target actions to address the specific issue. In this way the action utilises the</p>

			powerful effect of target group ownership of action + bespoke solutions designed in collaboration with the target groups/end users to deliver important lessons learned for dissemination and policy influence.
START2ACT	CrossNational	START2ACT aims to reduce residential energy consumption in the EU via changing the behaviour of consumers in their everyday lives by approaching them at their workplace. With a focus on European start-ups and young SMEs, the project aims at triggering action by young entrepreneurs and their emerging enterprises as well as by the owners and staff of young SMEs to introduce energy efficiency measures within their daily routines.	START2ACT will unleash the potential of energy savings at European start-ups and young SMEs via a set of innovative educational and capacity building measures.
TOPTEN ACT : Enabling consumer action towards top energy-efficient products	CrossNational	TOPTEN ACT develops a comprehensive market transformation strategy targeting consumers, manufacturers, retailers, large buyers, consumer associations and other key actors in 16 European countries, covering a combined population of 447 Mio inhabitants. It works with these actors to help them embrace and promote energy-efficient products, so that they become the natural choice for consumers.	TOPTEN ACT impacts are both quantitative —savings of 331 GWh/year triggered per million € invested— and qualitative: markets are more transparent, media report on top efficient products, multipliers relay the Topten message to their target groups, consumers change their using and purchasing behaviour, retailers change their range and highlight BAT products, manufacturers shift their production lines.
Rescoop	CrossNational	The 'REScoop 20-20-20 project' helps to improve social acceptance of RES-e generation with its proven model of local cooperative citizen involvement. The overall goal of the project is to speed up the creation of RES projects and related cooperatives in various member States.	specific objectives: (i) Inventory existing REScoops and their RES projects in order to identify their added value in fostering RES in Europe; (ii) Developing and testing methodologies based on best practices (Business structures and financing models for new REScoops; (iii) Dissemination of cooperative RES approaches.

DOMINO - Connecting Europe, Saving Energy	CrossNational	The DOMINO project will nudge more than 3,400 households from the regions of Brussels, Berlin and Naples towards more energy efficient behaviour and will connect participating households in their region to nurture peer-learning and strengthen social bonds. To this end, a variety of behavioural interventions will be combined in a smart plug challenge.	Throughout the project, data will be generated that allows looking into energy consumption patterns of households and their appliances. Furthermore, the actual potential for energy savings through behavioural change as well as through the application of smart plug technology and similar innovative product-system-services can be monitored and evaluated very precisely.
Boosting efficiency in electricity use in 8 European regions (EL-EFF REGION)	CrossNational	The project boosts efficiency in electricity use in 8 European regions, it analyses and tackles areas with specific growth rates by developing regional plans and implementing targeted promotion and dissemination activities.	8 regional action plans to boost electricity efficiency 8,000 decision makers in public administration and businesses reached reaching 5% of the population in each region, equalling more than 800,000 citizens motivating 560 households and 240 companies/institutions to participate in the "Minus 10% action" 18 events with over 1,000 participants
Energy Check for Low Income Households (EC-LINC)	CrossNational	The project "Energy-Check for Low Income Households" (EC-LINC) established tailored information and consultation approaches to assist low income households in saving energy and water at home. No- and low-cost measures have been combined within an advice service that is especially designed to bring practical knowledge on energy efficiency and viable tips to households who may be in fuel poverty.	During the home visits, advice is provided on the efficient use of energy and water. Small devices such as compact fluorescent lamps (CFLs) and tap aerators have been provided for free. Each household received an individual household report with a description of their potential savings and further tips for changing behaviour.

Persuasive force of children through education (FEEDU)	CrossNational	FEEDU was an educational project carried out in 9 European countries by 13 regional energy advice centres aimed at teachers and pupils of primary schools in order to obtain consciousness and results about renewable energy sources, rational use of energy and mobility.	Teachers were trained in energy education, they received the methodology and the necessary educational tools and experiences related to energy and mobility issues. A project-based learning plan in schools for a school year has the objective to changing attitudes of the pupils and their parents with respect to their energy consumption and mobility.
Common appliance policy – All for one, One for all – Energy Labels (COMEON LABELS)	CrossNational	The ComeOn Labels project aimed at collecting, summarising and sharing the best European experience related to the energy labelling of household appliances and defining and applying the most effective supporting actions for the proper implementation of the new labelling scheme.	<ol style="list-style-type: none"> 1. Understanding the legislation 2. Proper information on labels 3. Proper display of energy labels 4. Consumer awareness 5. Product replacement schemes
Eco n' Home or how to reduce energy consumption in Household (ECO N' HOME)	CrossNational	Eco n' Home aimed at exploring an innovative approach to reducing the energy consumption of households, by setting up a practical service for households that provides advice and identifies possible improvements in their day-to-day energy consumption. It consists of a home energy diagnosis that enables the advisor to report energy consumption and draw up a list of recommendations of behaviour changes	Target reduction of CO2 emissions (1 ton per household per year) and energy consumption (10 to 20%) per household followed through behavioural changes, replacement and/or reconditioning of energy systems, appliances, regulation systems, and building envelope. Communication activities to the public on the results of the project through the Eco n'Home website (http://www.econhome.net) that has a section to count CO2 saved and kWh savings.

European Solar Days II (ESD II)	CrossNational	The European Solar Days II project aimed at raising European consumers' awareness about the potential and benefits of intelligent energy solutions, especially for solar energy - solar thermal heating and cooling and photovoltaic electricity production.	The basic strategy of the concept was to mobilise citizens and different entities (municipalities, NGOs and others) to organise events dedicated to the sun as a source of energy and its use. The wide range of events drew the attention to the potential of solar energy and helped inform potential consumers on how they can apply solar energy in their homes.
Sun chart Flanders	Regional	Analysis of 2,5 million roofs in Flanders with calculation of gradient combines with details of the KMI (weather institute) to assess what solar panels and boiler can bring to a house regarding energy and what can be saved	<ul style="list-style-type: none"> - give people information about solar panels and boilers based on their own household - make them understand how much investment they would need for their HH energy use - giving them opportunity to be self sufficient - change towards renewable energy - have less CO2 emissions
Renovation bonus	National	If in an existing house or apartment after 1 January 2017, at least three of seven specific energy-saving investments are made, a voucher or BENO pass can be activated, which entitles you to total renewal bonuses in addition to the individual premiums for these investments that have already been paid.	to make more energy efficient homes
Frigoslag - Fridge event	Local	campaign to measure current energy use of the fridge and urge to replace old fridges and freezers with efficient ones	make people understand use of old fridges / freezers and make them aware (or make them buy) efficient ones - included calculation of time needed to retrieve costs of new one

SPIRIT - Energising Faith Communities (SPIRIT)	CrossNational	The project engaged faith based organisations in a programme that aimed to achieve measurable energy savings, CO2 emissions reduction and lasting behaviour change. There was limited experience of involving faith based networks in energy efficiency activities. Through SPIRIT, partners facilitated the mobilisation of these networks, by training and supporting members of faith communities to become volunteer Energy Champions, who delivered energy saving advice to fellow members of their communities.	Engaging faith based communities to raise awareness on energy efficiency Recruiting and training volunteer Energy Champions within these communities Organising advice sessions to share concrete energy saving solutions with interested households, helping them to reduce their energy consumption at home
Creating Actions among Energy Conscious Children (KIDS4FUTURE)	CrossNational	The Kids4Future consortium consists of 10 partners from a good mix of European countries. The project started in January 2007 and will last for three years targeting minimum 20 pilot schools in each partner country with a common energy story, TV, events and websites for children presented under one brand and common visual profile. At the core of the action are a common platform and one brand.	The platform is a universal energy story, which aims to bring in new dimensions and create understanding and enthusiasm for the energy subject, a sustainable future, and the global energy challenges. A strong brand will facilitate recall and strengthen recognition across channels, activities and countries. Pillars corresponding to children's own arenas support the platform: school, TV, event and web.
Integration of Active Learning and Energy Monitoring with School Curriculum (ACTIVE LEARNING)	CrossNational	The project promoted active learning and energy monitoring as a tool for energy education among children aged 6-12 years the idea. The project aimed to change attitudes towards energy use among the future generation plus short- and long-term energy savings in school buildings and private households.	In order to ensure that energy efficiency, renewable energy and transport become a more permanent topic in primary school education the project tried to lay the basis for integration of active learning into the national curricula. Illustrative success stories are by far the best way to promote any topic. The project created forerunners by inviting at least 150 schools to test a toolbox of selected material, created especially for teachers for integration with KidsCorner.

Residential Monitoring to Decrease Energy Use and Carbon Emissions in Europe (REMODECE)	CrossNational	The project evaluated how much electricity could be saved by the use of the most efficient appliances and by the reduction of standby consumption. The research focused mainly on new electronic loads such as: entertainment, information and communication technologies, stand-by consumption, lighting, as well as air conditioning in some southern countries.	Updated European database on residential consumption, including central and eastern European countries. Methodologies to combine the use of selective monitoring with wider-scale surveying. A software tool for evaluating energy performance in households. A set of policy recommendations for different types of equipment.
The Energy Path: an e-learning platform for education of the new generations in the sustainable energy field (ENERGY PATH)	CrossNational	Energy-Path develops the first innovative e-learning platform at European level, based on open source technology, containing didactic resources on RES, RUE, Transport and mobility which allows the online updating of the Web's contents and didactic material.	This Platform will sensitize and train the target audience in the involved countries, promoting the development of a new model of environmental education, affecting the changes of attitude, creating a conscience of individual and collective commitment with the acceptance and boost of the clean technologies and its good use.
TOGETHER on the move - Energy Efficient Transport training for immigrants (TOGETHER)	CrossNational	TOGETHER will develop and implement energy efficient transport training for immigrants. The training will focus on providing new immigrants with advice on energy efficiency in transport as well as providing them with essential skills in how to travel using sustainable modes.	This project aims to work with specific target groups and stakeholders to deliver tailor made training that seeks to enhance the quality of life of immigrants, to facilitate social inclusion as well as conserving essential energy resources for future generations. TOGETHER has a sharp focus on the community added value of setting up, implementing and promoting energy efficiency training and learning material for immigrants as most Member States are facing similar challenges.
Adopt your LED lamp	Local	Replace street lights with LED lamps	They want people in the city to be aware and involve

			themselves in more sustainable street lighting
European fuel Poverty and Energy Efficiency (EPEE)	CrossNational	Retrofitting of old buildings for low-income tenants with a focus on identifying the most effective measures for the national context and highlighting fuel poverty as a priority in policy; Qualify and Quantify energy poverty; Finding mechanisms to address climate change and reducing fuel poverty through retrofitting buildings	Evaluation of types of existing mechanisms (legislative, financial, technical, etc.), stakeholders, best practice; status in different countries.
EPORE - Energy Poverty Reduction in Eastern Europe	CrossNational	EPORE aims at supporting clearly defined groups of vulnerable consumers in tackling fuel poverty by facilitating more sustainable energy behavior and choices in their everyday life. It aims also at achieving structural changes of national policies to specifically address fuel poverty and include the transfer of best practices for the active engagement of vulnerable consumers.	1) creation of new working positions called "energy scanners", lower educated and long-term unemployed people trained to undertake an energy screening of the energy situation of a household, in which the household receive energy tips and energy saving devices, 2) guideline for addressing fuel poverty definition, condition and transfer of best practice (delivered to national policy-makers), 3) manual with tailored scheme of incentives in three specific selected region, 4) pilot actions in the three areas and condition/improvements monitoring after 12 months
Refurb	CrossNational	REFURB is a consortium of 13 partners and a number of cooperators in a project exceeding borders in EU, to inspire homeowners to move a step further with their energy renovations and achieve zero energy renovation. Easy, economical and efficient. REFURB gives an overview in a one-stop-shop model and establishes local partnerships and energy solutions close to consumers in the participating countries.	The main aim of REFURB is to bridge the gap between the supply side and demand side by developing a methodology or roadmap, which will result in dedicated renovation packages for different market segments and regions in Europe.

About EnergizAIR The renewable energy weather forecast - Europe	CrossNational	EnergizAIR adds positive indicators about the part of the energy needs that were covered thanks to renewable energy sources in the weather forecast. To set up an operational "renewable energy weather forecast" tool in France, Italy, Portugal, Slovenia and Belgium that will be widely broadcasted (4 million people reached at least) on a weekly basis at first. What do we put in the weather forecast? Production data and energy needs covering indicators about three technologies: PV, solar thermal and wind turbines.	Actual broadcasting of the renewable energy weather forecast in 5 countries One European website and 5 local supporting websites Interactive tools linking renewable energy with rational energy use Training for the weather anchors A methodology to transfer the concept to other countries
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CROATIA (HR – 35)

Name	Scale	Description	Objectives
REACH project	CrossNational	REACH: European project for reducing energy consumption in low income (energy poor households). It was implemented in Croatia, Macedonia, Bulgaria and Slovenia. In all countries, practical activities of the project – energy advising in households – were implemented on regional level. In Croatia it was implemented in Sisačko-moslavačka županija region	Through energy advising in energy poor households: lowering their energy consumption; influencing their energy related behaviour.
START2ACT	CrossNational	START2ACT aims to reduce residential energy consumption in the EU via changing the behaviour of consumers in their everyday lives by approaching them at their workplace. With a focus on European start-ups and young SMEs, the project aims at triggering action by young entrepreneurs and their emerging enterprises as well as by the owners and staff of young SMEs to introduce energy efficiency measures within their daily routines.	START2ACT will unleash the potential of energy savings at European start-ups and young SMEs via a set of innovative educational and capacity building measures.
FIESTA	CrossNational	FIESTA aims to cut down household energy consumption and related emissions, by fostering investments in production from renewable energy sources and purchase of more energy-efficient heating and cooling systems, and by conducting energy audits. Specially targeted are households of families with children and vulnerable consumers.	Reduction of home energy consumption (especially heating and cooling)

Instigating Simple Energy Efficient Behavioural Practices in Schools (FLICK THE SWITCH)	CrossNational	The objective was to influence the behaviour patterns of EU children and youth by motivating them to embrace the need for being responsible and sustainable in the use of energy. To achieve this, an EU-wide energy efficiency awareness and behaviour changing campaign for primary and secondary schools was conducted.	A dynamic, interactive and highly relevant Flick the Switch Campaign website has been designed, built and launched on the internet to stimulate the interest of European kids, teens, teachers, parents, education boards, government authorities, energy stakeholders, energy experts, media, etc.
Common appliance policy – All for one, One for all – Energy Labels (COMEON LABELS)	CrossNational	The ComeOn Labels project aimed at collecting, summarising and sharing the best European experience related to the energy labelling of household appliances and defining and applying the most effective supporting actions for the proper implementation of the new labelling scheme.	<ol style="list-style-type: none"> 1. Understanding the legislation 2. Proper information on labels 3. Proper display of energy labels 4. Consumer awareness 5. Product replacement schemes
European Network of Information Centres promoting Energy Sustainability and CO2 reduction among local COMmunities (ENESCOM)	CrossNational	ENESCOM aimed at enhancing the role of local communities in mitigating climate change by creating a common methodology to promote and develop capacity building in energy sustainability and for the adoption of sustainable energy policies. The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans. The project promoted integration, the institutionalization of energy efficiency and the uptake of RES through widespread information and dissemination activities. It also promoted and fostered adhesion to the Covenant of Mayors' initiative.	The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans.

More biking in small and medium sized towns of Central and Eastern Europe by 2020 (MOBILE2020)	CrossNational	Frontrunner cities in Europe have a modal share of ~20% cyclists. Most cities in the CEE however are far below 20%. The goal of MOBILE2020 is to enable stakeholders in small and medium cities in these countries to increase their share of biking as a mode of everyday transport. Good practice examples and guidelines exist but it is crucial to translate and adjust them to national circumstances and promote them proactively to have a broad reach. It is crucial to inform cities systematically and to overcome the singular "light house approach" in order to support the EU2020-targets. Creating national working groups on cycling in the target countries will foster a long-term development of cycling and will contribute to keep expertise and exchange on a high level. MOBILE2020 will empower municipal planners and decision makers to make the right investments, improve their planning procedures and to trigger a change in mobility behaviour.	Improving stakeholder communication and networks in cycling planning; Capacity development and knowledge transfer; Enabling municipal planners and decision makers in the target countries; Spreading good practice and being a good example
Solar maping (Solarno mapiranje)	Local	Project's goal was to map locations in two cities in Croatia for identifying the potential for using solar energy for electricity generation.	Main objective was to provide information about potential for PV power plant implementation in two cities to local decisionmakers, households, local citizens and other possible investors.
South East Europe Sustainable Energy Policy (SEE SEP)	CrossNational	Project runs in several South East European countries and tries to provide an alternative strategy for sustainable energy. This is done through advocacy work and inclusion of various civil society organizations and citizens into participatory process of developing the alaternative strategy. One of the main goals of the project is to raise awareness about the impact of current energy policy and to compare it with an alternative, lowcarbon, sustainable energy policy that puts citizens and future generations into center of its considerations.	Main objective of the project is to empower civily society organizations and citizens for active participation in policy processes towards fair, clean and safe energy future of the region.

Awareness and education in renewable energy sources (AWERES)	Regional	Project AWERES wants to increase the use of RES in Labin and Varaždin, and then in whole of Croatia. This is done by promotion and education on RES, especially targeting high schools in two selected municipalities. Both of them got equipment for curriculum activities in the shape of small wind power plants, PC system, thermal solar systems and measuring equipment. This is helping students in practical learning about RES, their knowledge is then disseminated to wider public and citizens (households). Developed curriculum program was in the later stages of the project spread to other highschools.	With promotion and education about renewable energy sources to increase the use of RES in two localities in Croatia, and later on, in the whole country.
Local Energy Dialog (LED)	Regional	Project is referring to the basic problem in the field of sustainable development, that is lack of participation of public, lack of access to legal processes, need to improve administrative capacity for implementation of legislation, and insufficient public awareness about sustainable development and environment protection and possibilities of implementing good practices in every day activities.	Main objective of the project is to improve and increase cooperation between civil society organizations, local decisionmakers and citizens in policy processes related to sustainable development and environment protection; and to improve awareness of the public about sustainable energy development.
With knowledge to a warm home (Znanjem do toplog doma)	Regional	Project is focusing on the problem of energy poverty in the region of Sisačko-moslavačka županija in Croatia. Its goals are connected to reducing energy poverty with practical measures - implementing energy advising in energy poor households and reducing their energy consumption; and to work on structural solutions: connect various stakeholders from civil and public sector to start cooperating between each other on this topic, to build capacities and spread knowledge about energy poverty to these various stakeholders in the region, to prepare policy recommendations for energy poverty abatement.	Main objectives: to establish cooperation between civil and public sector in the region for reducing energy poverty; to implement energy advising in energy poor households and to reduce their energy consumption.
Citizens4EnergyTransition	CrossNational	Project identifies existing educational practices about energy topics at national level, then builds on these to provide innovative and pedagogical materials designed to reach adult European citizens, helping them to feel concern about the energy transition, to reconsider their behaviour in lights of the information provided and to encourage them to move towards sustainability.	General objectives: raise citizen's awareness on the energy transition; reinforce adult skills and competencies in the field of energy transition; help citizens to identify the energy transition as an opportunity, in terms for example of job opportunities.

Laboratory for "do-it-yourself" sustainability	Local	Project Laboratory for "do-it-yourself" sustainability was carried out by Zelena Akcija in the form of several workshops for citizens: how to build your own biogas production facility, how to build your own thermal solar system, how to build your own PV power plant. Workshops were carried out in Zagreb, Croatia, and were intended for those who have interest in building their own small scale energy production facilities.	Objectives: to develop and spread "do-it-yourself" concept in the field of energy production and generation to interested citizens: educating citizens on how to implement their own renewable energy project.
School of Sustainability	CrossNational	School of Sustainability project brings together 23 groups from across Europe. The project aims to create common political analyses of system change from a social justice, environmental justice and human rights perspective; all of it also related to energy issues. Project offers local, national and international opportunities to mobilise, resist and transform. It engages individuals and communities, and especially youth, in practical workshops, learning by doing, residential events and new and creative forms of working.	Main objectives: to create critical political analyses of system change from a social justice, environmental justice and human rights perspective, also regarding energy issues. In that way: to change individuals behaviour; and also trying to change the system or the basis of different kind of (behavioral) norms.
Energy Cooperative "Island Krk" (Energetska zadruga "Otok Krk")	Local	Energy cooperative was formed with a vision about energy self-sufficiency of the Island Krk, Croatia, run 100 % on renewable energy and with widely implemented energy efficiency measures. Its activities encompass helping its members regarding administrative procedures (and financial issues) for the RES and EE projects; helping them in practical implementation of these projects, educating and training citizens and other local stakeholders about EE and RES.	Main objectives: to implement new RES and EE projects on island Krk (community based projects, individual's projects, other investor's projects); and also to educate citizens and other stakeholders regarding new possibilities (technology,...) and how to change their habits and consumption patterns.
Energy Cooperative Lug (Energetska kooperativa Lug)	Regional	Energy cooperative was formed with an objective of promotion of renewable energy sources in the regions of Karlovačka and Zagrebačka županija, Croatia. Its activities encompass helping its members regarding administrative procedures (and financial issues) for the RES projects; helping them in practical implementation of these projects, educating and training citizens and other local stakeholders about EE and RES. It has 8 members.	Main objectives: to implement new RES projects in the region of Zagreb and Karlovac cities (community based projects, individual's projects, other investor's projects); and also to educate citizens and other stakeholders regarding new possibilities (technology,...) and how to change their habits and consumption patterns.

Energy Cooperative Sunny Hvar (Energetska zadruga Sunčani Hvar)	Local	Energy cooperative was formed with a vision about helping citizens with their RES and EE projects and measures implementation on island Hvar, Croatia. It's activities encompasses helping it's members regarding administrative procedures (and financial issues) for the RES and EE projects; helping them in practical implementation of these projects, educating and training citizens and other local stakeholders about EE and RES.	Main objectives: to implement new RES and EE projects on island Hvar (community based projects, individual's projects, other investor's projects); and also to educate citizens and other stakeholders regarding new possibilities (technology,...) and how to change their habits and consumption patterns.
Energy Cooperative Kaštela (Energetska zadruga Kaštela)	Local	Energy cooperative was formed with a vision about helping citizens, local public institutions and other local stakeholders with their RES and EE projects and measures implementation in a village Kaštel Lukšić, Croatia. One of it's founding members is Primary School Ostrog. It's activities encompasses helping it's members regarding administrative procedures (and financial issues) for the RES and EE projects; helping them in practical implementation of these projects, educating and training citizens and other local stakeholders about EE and RES.	Main objectives: to implement new RES and EE projects on island Hvar (community based projects, individual's projects, other investor's projects); and also to educate citizens and other stakeholders regarding new possibilities (technology,...) and how to change their habits and consumption patterns. Also to educate pupils in Primary School Ostrog about RES and EE.
Energy advisers for energy poor households	Regional	Project goals are to reduce energy poverty through energy advising in energy poor households (providing advices and measures for reducing energy use and installing energy efficient devices); and to educate young and long-term unemployed in the field of energy advising. Project was implemented by UNDP Croatia in Koprivničko-križevačka županija, Croatia.	Main objectives: reduce costs for energy and water in energy poor households and trying to influence their energy related behaviour with giving them advices for EE in households.
Solar energy for households in rural areas	National	Main goal of the project was to ensure access to electricity from local renewable energy sources to those households in rural areas, that are located far away from the electricity distribution grid. Project partners installed 8 PV power plants in remote households. Plans are made to install additional 50 PV systems.	Main objectives: to ensure access to electricity to remote households, located far away from the electricity distribution network; to show that households' basic electricity needs can be economically and environmental-friendly fulfilled with local renewable energy sources, without the necessity to be connected to the electricity network.

Promotion of Energy Efficiency in Croatia	National	Project was implemented in Croatia by UNDP Croatia. Broad goal of the project was the promotion of various new EE technologies and improving energy efficiency, and specific goal was to establish systemic management of energy use in public sector. Main target group was therefore officials in public sector, although a lot of activities were targeting also broad public and citizens, especially with media campaigns, multi-media publications, brochures, education activities and other.	Objective: to lower energy and water use in general.
Project Energy Cooperatives	National	Main goal of this project is to promote renewables by ways of promoting energy cooperatives in ownership of local communities and citizens. Project was run by UNDP Croatia and included activities, such as workshops for citizens, where they could gain knowledge about energy cooperatives and how to form or start your own.	Main goals: developing of base of knowledge about current possibilities and models of energy cooperatives, writing a manual on how to form and start an energy cooperative in Croatia, implementing 10 workshops for citizens about energy cooperatives and how they can start one or get included; helping in development of at least 3 energy cooperatives.
CITIZENERGY	CrossNational	CITIZENERGY is a project that builds on know-how developed within the EU to implement citizen renewable energy projects - from cooperatives to investment intermediation. Project identifies barriers to citizen investment and matches citizen investors with new RES projects in Europe. CITIZENERGY creates marketplace that matches energy-aware citizens with attractive citizen RES projects allowing them to become investors.	Main objectives: anticipate the creation of common EU framework for citizen investment; support development of a longer investment culture in the EU; contribute to the European objective of job creation in a greener economy.
Energy efficiency advisors for low-income households	Regional	The most recognized way to save on energy bills for households in energy poverty is the application of tips and energy efficiency measures, carried out by young and long-term unemployed persons qualified as energy efficiency advisors. The project integrated approach with multiple benefits, as it addressed unemployment amongst the group of young people and long-term unemployed; it reduced energy expenses of low income households. Within the pilot project, curriculum for education of adults and educational materials were developed, and approach was tested in public.	Objectives: reduce unemployment amongst the group of young people and long-term unemployed; reduce energy expenses of low income households.

Wise Power - Fostering Social Acceptance for Wind Power	CrossNational	The project aims at accelerating and adding certainty to planning processes of renewable energy by decreasing local community opposition to such projects. The project will deliver social acceptance pathways in a user friendly format with concrete steps targeted at local communities, authorities, developers, system operators, citizens, cooperatives as well as environmental organizations, recommended procedures for community engagement, benefit sharing mechanisms and communication on local impacts or potential conflicting interests.	Objectives: to reduce local resistance to wind farm projects; to build acceptance of wind energy by empowering local communities and providing guidance through community engagement and participation in wind power project conception and benefits; to ensure planning processes take full stock of the required local participation during project conception, planning and operation.
Days of Passive House in Croatia	National	Days of Passive House in Croatia are a yearly three day event that already had nine editions. where citizens and other actors can get information about energy efficient housing and see cases of good practice in live. Project is organized by Faculty for Architecture in Zagreb, Croatia.	To spread knowledge and experience to citizens about energy efficient measures in housing sector.
EUeR - With energy efficiency against energy poverty	Regional	Project aims at addressing problem of energy poverty in two regions in Croatia and Slovenia through structural and practical solutions. They include giving advices and informing them on energy efficient measures to energy poor households, analyzing current programs on energy efficiency and energy poverty; building capacity for targeted stakeholders, preparing common recommendations for relevant stakeholders.	Empowering energy poor households to take actions to save energy and change their habits, empowering relevant stakeholders for dealing with energy poverty issue; and establishing energy poverty as an issue that demands structural solutions at local and national level.
SUSTAINCO (Sustainable energy for rural communities)	CrossNational	Project supports the ambitious European vision for the energy performance of buildings. It aims to build capacity within the partner countries through a range of services including promotion of best practice examples, supporting integrated approaches to design and retrofitting of buildings.	Objectives: to raise awareness of, and support development of, low energy building projects, with special emphasis on rural areas.
Video - Manual for energy efficiency	National	Project's goal was to prepare 4 videos on the topic of energy efficiency in households: insulation of building; energy efficient domestic appliances; energy efficient lighting; thermal solar collectors for heating water. And dissemination of videos.	Main objectives: to prepare 4 videos which will show how it is possible to reduce energy use in households, with small investments or changing habits.

Electricity supply	National	In countries of EU, there is a rise of "green" suppliers, those who offer electricity especially from renewable energy sources, and as the latest trend there's an appearance of suppliers legally organized as cooperatives, which obtains production and supply of electricity, primarily through its members / co-owners, and beyond. Green Energy Cooperative wants to initiate that exact model of electricity supply, combining the association of producers and clients in one unique process of production and electricity supply.	Changing consumption modes: going for "greener" products; and also ensuring this green product with cooperative's own generation facilities.
Energy refurbishment of family houses and multiapartment buildings	National	The Croatian Environmental Protection and Energy Efficiency is implementing energy retrofit programmes that were adopted by the Government of the Republic of Croatia, and it is financing energy efficiency measures in buildings, with a view to reducing the consumption of energy at national level and reducing CO2 emissions. Within this program, the Fund is co-financing different measures: replacement of windows and doors; insulation of walls and roofs; and other.	Main objective: with incentive to accelerate energy refurbishment of family houses and multiapartment buildings: reducing energy use in households for heating and cooling.
Co-financing of purchase of energy efficient A+++ domestic appliances	National	The Croatian Environmental Protection and Energy Efficiency is implementing energy retrofit and energy efficiency programmes that were adopted by the Government of the Republic of Croatia, and it is financing energy efficiency measures in buildings, with a view to reducing the consumption of energy at national level and reducing CO2 emissions. Within this program, the Fund is co-financing the purchase of energy efficient A+++ domestic appliances (washing machines, refrigerators,...).	Main objective: with money incentive to accelerate purchasing energy efficient A+++ domestic appliances (and replacing the old, inefficient ones): reducing energy use in households.
National portal for energy efficiency: Advices for sustainable home	National	A web based portal for energy efficiency, which incorporates advices for energy efficiency in households for various topics (heating, cooling, lighting, domestic appliances, transport issues, water savings, energy refurbishment)	Objective: lowering energy consumption in households and changing energy related habits.

Kids and wind	National	The project aims to educate children on national level, about sustainable development, renewable energy and energy efficiency and the promotion of energy cooperatives. In this project they want to establish a wind farm, which will be fully owned by children from all over Croatia (3000 children; every one pays 100 EUR). Wind farms would have ownership interests, parents would buy "shares" as an investment in a project of their own children and receive dividends. Part of the money from the sale of electricity would be invested in the expansion of the project and the establishment of an educational center for children.	Objective: to implement new RES project: build up a wind farm, which will be owned by children: on the way educating them about EE and RES.
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CYPRESS (CY – 14)

Name	Scale	Description	Objectives
FIESTA	CrossNational - local	FIESTA aims to cut down household energy consumption and related emissions, by fostering investments in production from renewable energy sources and purchase of more energy-efficient heating and cooling systems, and by conducting energy audits. Specially targeted are households of families with children and vulnerable consumers.	Reduction of home energy consumption (especially heating and cooling)
ELIH MED - A Euro-Mediterranean Program to Fight Energy Poverty	CrossNational	The pilot energy retrofit projects with the support of European funds, testing innovative funding mechanisms and comprehensive approaches integrating the occupants.	Its main objective is to identify and test, through large scale pilot actions, the feasibility of cost efficient technical solutions and innovative financial mechanisms for improving energy efficiency in low-income households.
SAVES2: Students Achieving Valuable Energy Savings 2	CrossNational	SAVES2 is an energy-saving competition, catalysing sustainable energy behaviours among university students to help them reduce their exposure to fuel poverty. It engages students living in university accommodation and in the private-rented sector. Social media and digital communications (quizzes, photo competitions) are used to raise awareness of how students can save energy in a fun way.	Students in dormitories save energy, competing with their peers in other dormitories. Students follow their performance online and receive feedback, which encourages further action.

ERACOBUILD - Countdown to Low Carbon Homes	CrossNational	Establishment of support groups for sustainable energy retrofit of homes in Cyprus - informing households on low cost methods to maximise their return on investment, with long term benefits for the environment and their own family budget.	Developing community scale delivery models for home energy improvements; action research with households and installers; supporting of the local supply chain; alternative financing mechanism for home energy improvements.
ActiveAccess	CrossNational	Active Access aimed to increase the use of cycling and walking for short everyday trips in local areas, in order to benefit people's health, and the health of the local economy. This was achieved by changing people's mental maps of their local neighbourhoods so that they would realise what is available on their doorstep, rather than further away in the town.	changing people's mobility habits; reducing energy and fuel consumption by 10-20%; improving health and tackling obesity; strengthening local economies by making residents aware of the local facilities
T.aT. - Today and Tomorrow "Students Today Citizen Tomorrow" (T.AT.)	CrossNational	The T.aT. project shaped travel behaviour of the university students, directing students at making more sustainable and better informed mobility choices in the future. The project aimed at a reduction of university mobility CO2 emissions by 5%; an increase in the percentage of public transport use by 10% among students; 5% of the students to buy a bicycle.	reducing the energy and environmental impacts of university mobility in Cyprus by introducing measures for mobility management; mobility education and awareness towards students; a university carpooling scheme; a university bike sharing service; and an innovative university sustainable mobility plan.
Students Achieving Valuable Energy Savings (SAVES)	CrossNational	SAVES is an inter-dormitory energy-saving competition between universities from five countries (academic years 2014/15 and 2015/16). The project focused on students as a distinct group of consumers, who are living away from home for the first time and thus adopting new energy-usage habits. SAVES provided quality engagement with students, enabling, empowering and motivating them to save energy.	learning to use energy efficiently and economically through participation in energy-saving competition

EURONET 50/50 MAX	CrossNational	<p>EURONET 50/50 max transfers the 50/50 methodology from Germany to schools in other EU countries. The basis of the 50/50 concept is that 50% of the total energy (and finally money) savings achieved from the energy efficiency measures implemented by the students are retained by the school, whereas the other 50% will be a net saving on the energy bills often paid for by a public authority (local or regional government). Schools get additional financial resources, students learn about energy efficiency; managers of school buildings have less energy costs, and energy efficient schools contribute to local energy and climate change targets.</p>	lowering energy consumption in schools (a minimum annual energy reduction of 2.5% for each school)
Eco Village - Tris Elies	Local	<p>Ecovillage Treis Elies is a small but growing community of people wishing to take responsibility for their own well being and to live respectfully towards nature and one another. Their vision is of a self-sustaining community, a place where daily life is carried out creatively, peacefully and with minimal impact on the environment.</p>	experimentation, recycling, sustainable living
SCORE-Sustainable Construction in Rural and Fragile Areas for EE	CrossNational	<p>A project for supporting integrated sustainable energy policies in the building sector by exploiting eco-innovative potential and fostering sustainable construction techniques and energy efficient housing, using elements of traditional building combined with innovative, green technologies. Study visits and case studies of eco-innovations in energy efficient building practices have been the basis for peer-learning for the partners.</p>	eco-innovations in energy efficient building practices as the basis for peer-learning; an eco-construction tool taking into account specific environmental, economic, social and aesthetic criteria
High energy efficiency schools in Mediterranean Area (TEENERGY SCHOOLS)	CrossNational	<p>Project promotes energy efficiency in secondary school buildings. It actively involves students in the educational dimension of Teenergy and fosters technological solutions for passive cooling, natural lighting and ventilation, and integration of renewable energies. Finally, project aims to increase the awareness on energy saving practices and standards.</p>	reducing energy costs and consumption in public secondary school buildings.
preserVe tradltiOnal buiLdings through Energy reducTion - VIOLET	CrossNational	<p>VIOLET addresses a common challenge related to important traditional buildings - how to renovate these buildings to improve energy usage and reduce carbon emissions without endangering architectural heritage. Without this forward-looking policy change, traditional buildings that are now a valuable asset will become a burden in the near future.</p>	to enhance energy efficiency in traditional buildings, by addressing both low carbon and cultural preservation actions.

A Focussed Strategy for Enabling European Farmers to Tap into Biogas Opportunities (GERONIMO II-BIOGAS)	CrossNational	GERONIMO II-BIOGAS works closely with dairy and pig farmers at grassroots level to quantify the biogas potential on their farms and to capacitate them to draw up robust business plans and strategies for investment in biogas facilities. Energy audits on 72 dairy and pig farms from across Europe, whereby some 33.7 GWh of unused sustainable biogas energy potential will be identified that could save 135,000 tonnes of CO2.	biogas pilot projects to promote the use of energy from biogas and save CO2 emissions
SMILEGOV project	CrossNational	SMILEGOV focuses on capacity building to enable island communities to develop Sustainable Energy Action Plans at local level, as this can be crucial for the balanced development of the island, the resources management, the economic growth and the quality of life for the citizens and visitors.	increase energy efficiency in the local infrastructure and promote a shift to sustainable mobility

THE CZECH REPUBLIC (CZ – 24)

Name	Scale	Description	Objectives
START2ACT	CrossNational	START2ACT aims to reduce residential energy consumption in the EU via changing the behaviour of consumers in their everyday lives by approaching them at their workplace. With a focus on European start-ups and young SMEs, the project aims at triggering action by young entrepreneurs and their emerging enterprises as well as by the owners and staff of young SMEs to introduce energy efficiency measures within their daily routines.	START2ACT will unleash the potential of energy savings at European start-ups and young SMEs via a set of innovative educational and capacity building measures.
Accelerated Penetration of Small-Scale Biomass and Solar Technologies (ACCESS)	CrossNational	The ACCESS project addresses small-scale technologies that utilise biomass and solar energy for heating and hot-water supply in dwellings with individual and local heating systems	The project aimed to contribute to the large scale market penetration of these technologies by 1) developing a virtual market network; 2) exploring systematically the biomass energy potential and perspectives for its increase; 3) developing a method for the identification of optimal combined schemes; 4) promoting standards for both the concerned technologies and biomass products; 5) developing training courses; 6) elaborating

			optimal financing schemes; 7 dissemination activities.
TOPTEN ACT : Enabling consumer action towards top energy-efficient products	CrossNational	TOPTEN ACT develops a comprehensive market transformation strategy targeting consumers, manufacturers, retailers, large buyers, consumer associations and other key actors in 16 European countries, covering a combined population of 447 Mio inhabitants. It works with these actors to help them embrace and promote energy-efficient products, so that they become the natural choice for consumers.	TOPTEN ACT impacts are both quantitative —savings of 331 GWh/year triggered per million € invested— and qualitative: markets are more transparent, media report on top efficient products, multipliers relay the Topten message to their target groups, consumers change their using and purchasing behaviour, retailers change their range and highlight BAT products, manufacturers shift their production lines.
Boosting efficiency in electricity use in 8 European regions (EL-EFF REGION)	CrossNational	The project boosts efficiency in electricity use in 8 European regions, it analyses and tackles areas with specific growth rates by developing regional plans and implementing targeted promotion and dissemination activities.	8 regional action plans to boost electricity efficiency 8,000 decision makers in public administration and businesses reached reaching 5% of the population in each region, equalling more than 800,000 citizens motivating 560 households and 240 companies/institutions to participate in the "Minus 10% action" 18 events with over 1,000 participants
European Smart Metering Alliance (ESMA)	CrossNational	ESMA has defined and spread best practice in smart metering across European member states and sought to maximise the resulting energy savings. The project produced reports on key aspects of smart metering, a Best Practice Guide, a Financial Toolkit and Annual Report.	They make it possible for final customers to get more information about their energy usage. Trials have shown that this can reduce consumption. ESMA aimed to ensure that energy reduction will be maximised through the introduction of smart metering.

Common appliance policy – All for one, One for all – Energy Labels (COMEON LABELS)	CrossNational	The ComeOn Labels project aimed at collecting, summarising and sharing the best European experience related to the energy labelling of household appliances and defining and applying the most effective supporting actions for the proper implementation of the new labelling scheme.	1. Understanding the legislation 2. Proper information on labels 3. Proper display of energy labels 4. Consumer awareness 5. Product replacement schemes
The Panel Scheme	National	The 'Panel' scheme is a joint project of the Ministry for Regional Development and the State Housing Development Fund for thermally insulating multi-family prefabricated houses. Of the total 1,2 million flats in prefabricated housing blocks across the Czech Republic, just under a quarter have been insulated under the 'Panel' scheme so far. https://bankwatch.org/sites/default/files/Home-is-where-the-heat-is.pdf	lowering energy consumption in general by improving energy efficiency of homes, mobilization of private investments,
Green light schemes	National	The 'Green light to savings' program is a green investment scheme funded by the sale of Kyoto Protocol emission allowances. It provides a subsidy of approximately 60 to 65 percent of the total cost for thermal insulation in single- and multi-family houses, with 89 percent of that support having been spent on thermal insulation. https://bankwatch.org/news-media/blog/there-you-have-it-green-investments-do-create-jobs	Its objectives are to support investments in energy savings in both renovation and new construction as well as installation of heating sources that utilise renewable energy.
European Network of Information Centres promoting Energy Sustainability and CO2 reduction among local COMmunities (ENESCOM)	CrossNational	ENESCOM aimed at enhancing the role of local communities in mitigating climate change by creating a common methodology to promote and develop capacity building in energy sustainability and for the adoption of sustainable energy policies. The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans. The project promoted integration, the institutionalization of energy efficiency and the uptake of RES through widespread information and dissemination activities. It also promoted and fostered adhesion to the Covenant of Mayors' initiative.	The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans.

European Solar Days II (ESD II)	CrossNational	The European Solar Days II project aimed at raising European consumers' awareness about the potential and benefits of intelligent energy solutions, especially for solar energy - solar thermal heating and cooling and photovoltaic electricity production.	The basic strategy of the concept was to mobilise citizens and different entities (municipalities, NGOs and others) to organise events dedicated to the sun as a source of energy and its use. The wide range of events drew the attention to the potential of solar energy and helped inform potential consumers on how they can apply solar energy in their homes.
More biking in small and medium sized towns of Central and Eastern Europe by 2020 (MOBILE2020)	CrossNational	Frontrunner cities in Europe have a modal share of ~20% cyclists. Most cities in the CEE however are far below 20%. The goal of MOBILE2020 is to enable stakeholders in small and medium cities in these countries to increase their share of biking as a mode of everyday transport. Good practice examples and guidelines exist but it is crucial to translate and adjust them to national circumstances and promote them proactively to have a broad reach. It is crucial to inform cities systematically and to overcome the singular "light house approach" in order to support the EU2020-targets. Creating national working groups on cycling in the target countries will foster a long-term development of cycling and will contribute to keep expertise and exchange on a high level. MOBILE2020 will empower municipal planners and decision makers to make the right investments, improve their planning procedures and to trigger a change in mobility behaviour.	Improving stakeholder communication and networks in cycling planning; Capacity development and knowledge transfer; Enabling municipal planners and decision makers in the target countries; Spreading good practice and being a good example
From Estonia till Croatia: Intelligent Energy Saving Measures for Municipal housing in Central and Eastern European Countries (INTENSE)	CrossNational	INTENSE aims at transferring intelligent energy saving measures for municipal housing from "old" EU Member States to "new" Member States and Accession countries in Central and Eastern Europe.	Developed public awareness raising strategy and public information toolkits for municipalities for guiding of consumption patterns of inhabitants towards energy saving measures in buildings in Central and Eastern European Countries.

Green Household	National	The initiative is a project that aims to present best practises that contribute to lowering the CO2 emissions and disseminating them among the general public. With the promotion of good practises, the projects spreads knowledge and gives incentive to change. Topics: consumption, energy, food... http://www.veronica.cz/zelena-domacnost-nakupovani	Initiative aims at incentivising households to make conscious choices and buy and consume products and energy accordingly. It aims to change the behaviour of the members of households by raising awareness.
SPIRIT - Energising Faith Communities (SPIRIT)	CrossNational	The project engaged faith based organisations in a programme that aimed to achieve measurable energy savings, CO2 emissions reduction and lasting behaviour change. There was limited experience of involving faith based networks in energy efficiency activities. Through SPIRIT, partners facilitated the mobilisation of these networks, by training and supporting members of faith communities to become volunteer Energy Champions, who delivered energy saving advice to fellow members of their communities.	Engaging faith based communities to raise awareness on energy efficiency Recruiting and training volunteer Energy Champions within these communities Organising advice sessions to share concrete energy saving solutions with interested households, helping them to reduce their energy consumption at home
E.ON Energy Globe Competition	National	http://www.energylife.cz/	Lowering energy consumption in general, promoting successfull projects aimed at increasing energy efficiency, expose innovative projects by giving them publicity and also reward them.
Integration of Active Learning and Energy Monitoring with School Curriculum (ACTIVE LEARNING)	CrossNational	The project promoted active learning and energy monitoring as a tool for energy education among children aged 6-12 years the idea. The project aimed to change attitudes towards energy use among the future generation plus short- and long-term energy savings in school buildings and private households.	In order to ensure that energy efficiency, renewable energy and transport become a more permanent topic in primary school education the project tried to lay the basis for integration of active learning into the national curricula. Illustrative success stories are by far the best way to promote any topic. The project created forerunners by inviting at least 150 schools to test a toolbox of selected material, created especially for teachers for integration with KidsCorner.

Residential Monitoring to Decrease Energy Use and Carbon Emissions in Europe (REMODECE)	CrossNational	The project evaluated how much electricity could be saved by the use of the most efficient appliances and by the reduction of standby consumption. The research focused mainly new electronic loads such as: entertainment, information and communication technologies, stand-by consumption, lighting, as well as air conditioning in some southern countries.	Updated European database on residential consumption, including central and eastern European countries. Methodologies to combine the use of selective monitoring with wider-scale surveying. A software tool for evaluating energy performance in households. A set of policy recommendations for different types of equipment.
The Green Savings programme	National	The Green Savings programme focuses on support for heating installations utilising renewable energy sources but also investment in energy savings in reconstructions and new buildings. The programme will support quality insulation of family houses and multiple-dwelling houses.	the replacement of environment unfriendly heating for low-emission biomass-fired boilers and efficient heat pumps, installations of these sources in new low-energy buildings, installation of solar-thermal collectors as well as construction of new houses in the passive energy standard
Hostetin Centre for Sustainable Rural Development, Czech Republic	Local	The Hostetin Centre for Sustainable Rural Development is located in Hostetin village, Zlin province, in the White Carpathian Mountains, southeast Czech Republic. The centre is managed by the NGO, the Ecological Institute Veronica (EIV), which is a branch of the Czech Association of Nature Conservation, and promotes sustainable regional development through various projects and courses.	The passive house standards and the incorporation of traditional techniques and local resources were key components of the project that promoted sustainability. The passive house standard was a useful framework to ensure the centre was as energy efficient as possible. Integrating traditional construction techniques and local resources into the passive house framework maximised local benefit and minimised the environmental impacts of the centre.

Sluňákov : The Olomouc center for ecological activities	Local	The Olomouc Centre for Ecological Activities was founded and has developed thanks to support from the City of Olomouc dating back to 1992. The City of Olomouc is the owner of the low-energy building and the 15-hectare educational bio-centre. The activities of the non-profit Sluňákov organisation are aimed at fostering relationships between man and the natural environment.	for schools We offer schools a wide selection of programmes focussed on ecology, the natural sciences and historical and other social science issues related to human activities in the environment. for the public We offer the general public opportunities to meet at community conferences for developing responsible relationships between man and the natural environment and for searching for active solutions to ecological problems.
EPORE - Energy Poverty Reduction in Eastern Europe	CrossNational	EPORE aims at supporting clearly defined groups of vulnerable consumers in tackling fuel poverty by facilitating more sustainable energy behavior and choices in their everyday life. It aims also at achieving structural changes of national policies to specifically address fuel poverty and include the transfer of best practices for the active engagement of vulnerable consumers.	1) creation of new working positions called "energy scanners", lower educated and long-term unemployed people trained to undertake an energy screening of the energy situation of a household, in which the household receive energy tips and energy saving devices, 2) guideline for addressing fuel poverty definition, condition and transfer of best practice (delivered to national policy-makers), 3) manual with tailored scheme of incentives in three specific selected regions, 4) pilot actions in the three areas and condition/improvements monitoring after 12 months

Renovujdum	National	<p>It is a webpage run by the energy efficiency company Chance for Buildings. It gathers all the information about how to obtain support for the reconstruction of houses and flats in one place. It includes different information according to the type of building and the area you want to build it in. It gives a very detailed description of savings and costs for different measures.</p>	<p>The objective of the webpage is to raise awareness about possibilities of different financial schemes that could provide support households and consequently encourage more households to take advantage of the financial scheme for energy efficiency measures. The aim of this is to lower the energy consumption of households in general.</p>
Program Effect	National	<p>Programme EFFECT is newly designed state program of energy savings for the period 2017-2021. It is focused on the realization of energy savings in order to increase energy efficiency and reduce energy consumption. Through the five-year period to support investment projects of small-scale and non-investment projects in the form of energy consulting, implementation of energy management, preparation of energy efficiency projects, events and documents in support of energy savings.http://www.mpo-efekt.cz/cz/programy-podpory/</p>	<p>The objective of the programme is to financially incentivize households to take on energy efficiency and renewable energy investments in their homes. The general objective of this is to lower the energy consumption and increase the share of renewable energy in the energy mix.</p>
Renewable decade (Obnovljivi desetletji) competition	National	<p>Renewable decade (Obnovljivi desetletji) is an initiative which draws attention to interesting and innovative projects that use renewable energy sources in Czech Republic. In collaboration with partners and professional awards jury selected the best examples of good practices of the use of renewable resources in five categories. One of the categories is called "Renewable energy for families", where a lot of emphasis is put also on energy efficiency. http://obnovitelnedesetileti.cz/</p>	<p>Drawing attention to good practises in the realm of renewable energy. The category "Renewable energy for families" wants to show, how successfull transition to renewable energy in households together with energy efficiency measures can be done.</p>

ESTONIA (EE – 10)

Name	Scale	Description	Objectives
Powerhouse Nearly Zero Challenge (POWER HOUSE NZC)	CrossNational	This initiative aimed to boost the number of nearly-Zero Energy homes across the continent by sharing ideas and expertise between Public, Cooperative and Social Housing professionals. It has provided a great opportunity for housing providers to share learnings, gather accurate performance data and make progress on energy efficiency throughout Europe.	mainstreaming effective solutions and showcasing exemplary financing and organisational solutions used to reach nearly zero standards in existing housing in divided ownership
More biking in small and medium sized towns of Central and Eastern Europe by 2020 (MOBILE2020)	CrossNational	The goal was to increase the share of biking as a mode of everyday transport in small and medium cities. Good practice examples and guidelines were promoted proactively by a working group on cycling, triggering a change in mobility behaviour.	Change mobility behaviour through capacity development and knowledge transfer about good practices
Intelligent energy saving measures for municipal housing in Central and Eastern Europe - INTENSE	CrossNational	The project INTENSE is addressing the complexity of holistic energy urban planning and triggering comprehensive thinking about energy efficiency. Apart from municipality experts, general public was involved in workshop and awareness raising events. Educational video materials and brochures were developed and available in the internet site of the project: http://www.intense-energy.eu/	The thematic areas include: heating and ventilation; heating home with renewable energy sources; energy smart living; ecologic construction materials; energy consumption and passive house; choosing energy efficient goods; energy labels, audits and home assessment; smart metres and smart grids; upgrade your home – insulation; small measures to improve the energy efficiency of your home; changing energy use in old buildings; principles of energy efficient planning
Encouraging active travel for short trips to improve health and the local economy (ACTIVE ACCESS)	CrossNational	ACTIVE ACCESS aims at increasing the use of cycling and walking for short everyday trips in local areas. It aims to motivate people to chose walking & cycling trips by changing the people's mental maps of their local neighbourhoods.	saving energy through a modal shift from car to walking & cycling and by reducing barriers to walking & cycling

EuropeaN Efficient Residential Lighting INitiative (ENERLIN)	CrossNational	<p>Lighting consumes 14% of all electricity consumption within the EU and represents a big energy saving potential, as old and inefficient lighting technology consumes large amounts of unnecessary energy. The consortium work has focussed on the better promotion of Compact Fluorescent Lamps for residential use to help realise this potential, possibly decreasing the annual EU CO2 emissions by 1.2 Mt.</p>	The overall project objective was to substantially increase the efficiency of indoor residential lighting through increased applying of CFLs in residential sector.
Promotion of the Passive House Concept to the North European Building Market (NORTHPASS)	CrossNational	<p>In cold climates it is very difficult to reach the Passive House energy demand defined for Central European countries (15 kWh/m²/a) without substantially increasing the construction costs. The project raises awareness on potential challenges with the market acceptance of North European Passive House and proposes suitable solutions for implementation of the EU Commission energy efficiency strategy plan. The scope of the project is new residential buildings.</p>	Finding solutions to remove market barriers for Passive House products
Raising awareness on renewable energy developing agro-energetic chain models (RADAR)	CrossNational	<p>RADAR aimed at promoting the energy citizenship through the setting up of Rural Sustainable Energy Communities, in order to facilitate the adoption of renewable energy and energy efficiency measures by local communities and to prepare the way for large scale investments. Apart from awareness-raising activities, agro-energetic chain models and feasibility studies for pilot areas were developed. The creation of Rural SEC enabled the use of a bottom-up approach, and an adjustment of the activities according to the needs of the concerned areas.</p>	Promoting the energy citizenship through the setting up of Rural Sustainable Energy Communities; adoption of renewable energy and energy efficiency measures by local communities
Renewable Energy and Building Exhibitions in Cities of the enlarged Europe (REBECCE)	CrossNational	<p>Project promotes new built and redeveloped energy houses with integrated RES H/C components, presenting them in the frame of five Renewable Energy Building Exhibitions. Although the investments and the construction measures are not a part of the project, these were used for a massive promotion and training campaign. These houses are part of new residential and revitalized areas without CO2 emission and were open for visits to all interested people. After the exhibitions, the houses were occupied by the purchasers.</p>	promoting renewable energy heating/cooling applications and energy efficiency solutions for buildings.

RES and RUE Stimulation in Mountainous Agricultural communities towards sustainable development (MOUNTAIN-RES/RUE)	CrossNational	The main objective of the project was to stimulate renewable energy sources and the rational use of energy in four local agricultural communities located in mountainous regions. The needs and prospects of these communities were analysed and ideas for the launch of new technologies and land use planning identified. Viable and socially matured RES and RUE project opportunities and a guide for self-sufficient energy communities were prepared during the project's lifetime.	stimulate renewable energy sources and the rational use of energy in local agricultural communities located in mountainous regions.
Social Housing Action to Reduce Energy Consumption (SHARE)	CrossNational	This project aimed to increase the sustainability of energy use, minimise carbon emissions, limit uncomfortable temperatures and reduce fuel bills in social housing. To achieve these goals it raised awareness of economic benefits, developed retrofitting methods that address energy concerns, examined possible changes in behaviour, maximised financial and technical resources, promoted good practices and encouraged the sharing of experiences.	Increase the sustainability of energy use, minimise carbon emissions, limit uncomfortable temperatures and reduce fuel bills in social housing

FRANCE (FR – 60)

Name	Scale	Description	Objectives
POWERHOUSE NEARLY ZERO CHALLENGE (POWER HOUSE NZC)	CrossNational	This initiative, run by Housing Europe in partnership with 13 housing federations across the EU, aimed to boost the number of nearly-Zero Energy homes across the continent by sharing ideas and expertise between Public, Cooperative and Social Housing professionals. It has provided a great opportunity for housing providers to share learnings, gather accurate performance data and make progress on energy efficiency throughout Europe.	building capacity and confidence among Europe's social, cooperative and public housing providers ahead of NZEB obligations; mainstreaming effective solutions; showcasing exemplary financing and organisational solutions used to reach nearly zero standards in existing housing in divided ownership
ACHIEVE https://ec.europa.eu/energy/intelligent/projects/en/projects/achieve	CrossNational	Contributing to practical (energy uses and behaviours) and structural (retrofitting buildings) solutions for reduction of fuel poverty in Europe. In ACHIEVE, long-term unemployed people, volunteers or students are mobilized and trained to develop a large-scale energy advice service (based on home visits) towards low-income households facing difficulties with their energy bills.	Understanding vulnerable consumers' energy consumption, bills and habits; distributing and installing a set of free energy and water saving devices, and giving advice to the households on how to implement further practical measures for saving energy in general; analyse and

			propose longer-terms solutions for lowering energy consumption
TicElec « Technologies de l'information pour une consommation électrique responsable ».	National	This initiative, run by CNRS and Université Nice Sophia Antipolis in partnership with the city of Biot in the south of France, aimed to analyse how households consume when they get daily informed about their electricity usage, by installing Communicating Meters.	The study found out that households equipped with meters tend to reduce their energy consumption in general (-23%)
Thermo'Kit	Regional	This initiative, run by Héliante, in the region Rhône-Alpes is giving households a kit to measure their energy usage. After measurements are finished, Héliante experts help the household to improve their energy related behaviour or equipments.	Helping households to analyse their consumption and improve it to reduce energy use.
Smart-up project	CrossNational	A consortium led by Alphéeis, co-financed by the H2020 program, helps vulnerable households in 4 countries (Fr, IT, ES, UK), to use their Communicating energy meters to improve their energy savings. They are training people, that they meet these vulnerable households and show them how to reduce their energy use.	Helping households to change their energy related behaviour and to use new energy smart meters.
Ideas Laboratory	Local	During the winter, Ideas Laboratory equipped households with Predictive Thermostat, that shows Real-time consumption of gas for heating.	Showing members of the household how much they will pay every time they turn on gas heating with an insight that they will be more rational with heat energy usage because of that.
Au bon logement	Regional	Pact 22 built a van to meet people in Brittany, to let them know about solutions and NGOs that can help them with reducing their energy usage.	Going to meet people that are lacking information about energy efficiency measures and presenting it to them.
Ma maison pour agir	National	La Maison Abordable built 3 low energy use removable houses, that are travelling all around France to present the advantage of low-energy buildings, with many interactive activities.	Present the concept of low-energy buildings to the maximum number of households
CONSOTAB	Local	Consotab is an initiative run by Grand Lyon habitat, it equips tenants of the Perrache residence in the Confluence neighbourhood with a monitoring system for energy use, which enables the monitoring of their consumption in detail and makes it easier to implement measures for reduction of their energy bills (water, gas, electricity)	To support residents in implementing eco-friendly behaviour in practice through human support and advice provided by the tablet according to the tenant's consumption. To prepare the tenants for the renovation work and to change

			their behaviour related to energy use.
participatory workshops in Pyrenees Orientales	Regional	Apart from its strategy to combat energy poverty, the Department of the Pyrenees Orientales set up participatory workshops with social service users and socialworkers with the aim of creating awareness-raising tools about controlling the energy usage in households.	To discuss with people about Awareness-raising tools to change energy patterns to use and create the most relevant ones, and to find out households main concerns.
SLIME (Service Local d'Intervention pour la Maîtrise de l'Energie) du département du Lot	Regional	The SLIME Local service of intervention for the control of the Energy Implemented by the Lot department, conducts visits to households in precarious situations in order to provide them with advice enabling them to save energy and / or improve their comfort.	Taking care of Households in precarious situations and helping them to save money
ClimaKit	Local	As part of the launch of its Climate-Territorial Energy Plan, the city of Sénart created in 2012 an operation to distribute energy-saving kits: the Climakits. An awareness-raising tool, a photo-novel, was designed to facilitate its appropriation, and the approach was adapted according to the type of audience targeted: "general public" and "precarious public".	Targeting precarious households during "general public" events, and distribution of the kits (A shower hourglass (3 minutes) A power strip with switch One LED bulb A thermometer and a polar plaid A carafe 'Eaux de Sénart', 2 bus tickets A plan of the soft connections to Sénart The bus schedules in Sénart.)
Pacte énergie solidarité	National	Certinergy, a company specializing in energy efficiency, launched the "Energy Solidarity Pact" program to enable the most modest households to benefit from its services. Thanks to financing through the resale of White certificates and a simple and efficient work technique, the renovation comes at a very modest cost for the beneficiaries.	Isolate attic/roof for 1 € thanks to an efficient financial arrangement
Energy solidarity	National	The Friends of Enercoop plan to finance local projects to combat energy poverty through a micro-donation platform enabling users of the Enercoop network to round up the payment of their invoice to the top euro.	Collect money from private people (around 10€/ year after Tax reduction) to fund local project on Energy precarity issues

La Réunion: Awareness-raising in SIDR neighborhoods equipped with solar water heaters	Regional	The Real Estate Company of Reunion (SIDR) installed solar water heater in many groups of dwellings. Many complaints were registered after installation of the solar water heater, if some were due to technical problems, there were mostly due to misuse of equipment. That is why the SIDR launched an Awareness campaign to improve the use of equipment.	Train customer managers in the various domestic hot water systems installed in neighborhoods Set up a complaint-handling methodology to distinguish between technical problems and misuse Create an awareness document on solar hot water Sensitize and inform a number of residents of neighborhoods equipped with solar water heaters Implement a personalized energy diagnosis in order to identify indicators in terms of equipment within the households.
Synergie Habitats	Regional	Association fighting against over-indebtedness, CRESUS Nord-Pas-de-Calais faces an increase in the number of outstanding payments for energy. In order to carry out a preventive, not only curative, action, it has developed the Synergie Habitats program to follow homeowners wishing to renovate their homes under the Habiter Mieux program.	- Carry out thermal renovation works with energy savings of at least 25% - Accompany 50 households per year - Add a dimension of social following and awareness of the technical approach to the realization of works
The Eco-gestes workshops of the town of Aubervilliers	Local	Since 2010, the Aubervilliers CCAS organizes interactive workshops on eco-gestures in energy, mainly for applicants for assistance to the Fonds de Solidarité Energie. Since February 2010, a monthly workshop on eco-gestures and social energy tariffs has been offered to all Albertvillians and systematically to all applicants for assistance to the Fonds de Solidarité Energie. On this occasion, a "Solidarité Energie kit" with energy-saving bulbs, an indoor thermometer, a power strip with a switch and eco-aerator is given to the participants.	- To adopt a preventative approach and provide knowledge to the public benefiting from financial aid to better manage their consumption - To fight against the non-use of Social Energy Tariffs (TPN 68% / 62% TSS at the National level)

EMPOWERING, how to better involve citizens in collective efforts to control energy demand	Local	ALEC is currently participating in the EMPOWERING European project with the supplier and network manager Gas and Electricity of Grenoble (GEG) and the HESPUL association. This project has the objective of developing tools which allow individuals to better understand their electricity and gas bills and thus realise energy savings.	- To make energy consumers more responsible and autonomous (empowerment) vis-à-vis their energy consumption by offering simple tools to enable them to better understand their electricity and gas bills. - For the energy supplier GEG: to maintain quality of customer relations by offering a free service to help monitor consumption, improve data analysis of energy consumption and develop information systems. - For ALEC and Hespul (partner association): to greatly raise awareness on energy savings and reach a wide audience who don't know the Energy Information Spaces (EIA).
"Réfelxénergie" Project in the Urban Community of Dunkirk	Local	Réflexénergie aims to reduce the energy consumption of individual properties by enabling owners to undertake subsidised thermal renovation work. Users benefit from free technical advice to support their project. In 2004, the CUD carried out an infra-red, aerial thermography in order to see the energy lost through the roofs of homes in the territory. The idea is to allow each of the owners to study the pictures from this thermography in order to see the extent of energy lost from their home.	- To reduce the energy consumption of individual properties in order to achieve the objectives of the Town Council Convention by enabling all citizens to improve the energy performance of their home. - To intensify energy renovation work by offering individuals free technical and financial support. Users benefit from subsidies if they carry out the renovation.
Visits to example houses for individuals	Local	ALEC of Saint Quentin in Yvelines organise visits to a "example houses" in the presence of the homeowners, to show to interested individuals the advantage and benefits of a successful renovation and to encourage them to implement similar energy efficiency measures.	- To specifically accompany individuals in their process of managing and economising energy in their home. - To put in contact property owners in charge of renovations and individuals wishing to begin the adventure of renovating or building. - To have a concrete illustration

			<p>of the counsel given by the Info Energy counselors, benefiting from the feedback of enriching experiences and to enable individuals to get started with as many ingredients as possible to complete an efficient and long lasting project.</p> <ul style="list-style-type: none"> - Efficient House Competition: Each year a competition is organised to highlight good practice in the region and enable the communication of these practices to individuals. This competition for an Efficient House equally enables the taking of an inventory of new efficient houses and thus enables a diversification of the themes in the visits to the example house.
Energy Apertifis For Energy Sobriety	Local	<p>Organisation of aperitifs at home bringing together 10 to 15 people in the presence of a counsellor of the Local Energy Agency (ALEC) of Messin in order to help families, property owners or tenants by better understanding their water and energy bills. Action launched as part of " Climate Cities Month in the Metz Urban Area" aimed at informing individuals about energy efficiency.</p>	<ul style="list-style-type: none"> - Raising awareness of eco-energy. - To make the public aware of the existence and work of ALEC in the Metz region.
Mission Bud-G: a guide to a fun awareness campaign on energy saving	Regional	<p>"Mission Bud-G" is an experimental booklet written by CEDER in order to offer the public a fun and attractive way to learn about energy saving in the home. Writing the guide: Work with a researcher of engaging communication at the university of Metz in order to determine a framework: two elements (Hot:Cold and electricity) according to the following plan:</p> <ul style="list-style-type: none"> *Presentation of the theme: humorous cartoon. *Understanding the topic: little game. *Provoking questions: quiz *Answering the questions: theory provided. *Go deeper: bonus 	<ul style="list-style-type: none"> - To raise public awareness of the topic of energy consumption in the home. - To communicate technical information in an attractive message.

ECO-LOGIS Project: Experiment with a participative, collaborative and innovative process	Local	The ECO-LOGIS project intends to provoke collective responsibility for the problem of renovation and rehabilitation of housing by homeowners, in a neighbourhood or a road, while taking account of the resources of different households. It works with occupying-homeowners on the same street to create a social link so that they help one another, group the renovation work together and set up a group for collective purchases.	- To contribute to conceiving and experimenting with innovative operational tools for the massive rehabilitation of old houses. - To develop the usage of ecological materials in the rehabilitation of these houses - To improve the sanitary quality of the housing within the framework of this rehabilitation
Guide to inform young tenants on the use of energy in their homes	Regional	ALECOB, the Local Energy Office for Central West Brittany, and the local Cob project have prepared and distributed a guide for young tenants, so that they acquire good habits from the first time they live independently. This preventive approach aims to reduce the risk of falling into energy poverty due to poor energy management.	-Targeted public: young people with the intention to live alone. -Inform young tenants on the use of energy in their homes and energy saving behaviour -Prevent situations of energy poverty from arising by giving them the tools to manage their energy from the moment of the first move to independent living, so that good habits are in place from the beginning. -Establish and visualise their budget and their needs.
CoachCopro: a web platform to help property co-owners with the process of energy renovation work	Local	CoachCopro is an internet platform created from the initiative of the Parisian Climate Agency (APC) in consultation with their partners involved in energy renovation work of joint-owned properties in the area. It has 3 objectives: to increase the number of ambitious energy renovations amongst co-owned properties; to mobilise the entirety of the ecosystem of co-owners around the process of renovation; to assure a precise monitoring of all the projects involved and to continue the reflection work around the evolution of support occupations.	*Making a web platform freely available to co-owners which structure their projects to make them more autonomous. *Re-orientating the work of energy-info counselors towards the key elements of the process. *Offering energy-info counselors a simple and effective tool to monitor, report and support. *Continuing, via the platform, to mobilise/train the actors in the co-owner ecosystem in the process of renovating (Syndic, Education Office, architecture). *To evaluate the pertinence of the economic means applied to stimulate the energy renovation of the developed park.

Famille à energie positive	National	The NGO Prioriterre created a website where families can register, and are challenged to reduce their energy bills by 8% comparing to last winter season.	-encourage families to pay more attention to their energy consumption -learn them how to read the details of bills -act significantly for the environment
Appart'éco et Maison'éco	Local	The project of Appart and Maison'Eco aims to fulfill a two-fold objective of raising awareness of energy savings in housing: - A Maison'Eco dedicated to the diffusion of practices of sustainable renovation in the home, to the professionals and individuals of the Pays Chaumontais, through a site open to the public. - An Appart'Eco to promote eco-citizen actions of everyday life to the general public.	The main objectives of the Appart'éco and Maison'éco project are to make the general public aware of everyday eco-gestures and also to raise awareness of energy renovation.
Strengthen the commitment of a group of exemplary citizens	Local	In the context of citizen mobilization, an inter-neighborhood group of the Brest District Advisory Councils was formed in December 2012 with the idea of making it a group of citizens-relays. They carry out various actions related to issues of home renovation or energy consumption.	The meetings of this inter-sectoral group are an opportunity to provide information on actions, initiatives of services within the framework of the PCET and which may have an awareness-mobilization component.
ELIH MED - A EURO-MEDITERRANEAN PROGRAM TO FIGHT ENERGY POVERTY	CrossNational	The project aims to carry out 10 pilot energy retrofit projects in 5 countries in the Mediterranean area of the European Union with the support of European funds, testing innovative funding mechanisms and comprehensive approaches integrating the occupants. 405 households spread into partner territories: 110 in Spain and Greece, 95 in Italy, 35 in Malta, 30 in France, 25 in Cyprus	The final target of the project is low-income households, which typically occupy low-energy efficient housing and can not afford energy-efficient renovations that would allow them to Better comfort.
ASSISTING CONDOMINIUMS ENERGY RENOVATION IN FRANCE	Local	At local level and Marseille in particular, the vast majority of the housing stock is collective, accounting for 83% of primary residences. Built before 1975, three quarters of these apartment blocks are considered as major energy consumers. In view of this, GERES began a project in May 2008, via its Marseille Provence Energy Information Centre, designed to help condominiums with energy renovation work.	The aim of the EIC is to raise awareness and encourage joint owners to carry out energy-saving work to limit their expenditure, improve their comfort and reduce their impact on the environment. The EIC offers monitoring and assistance throughout all project stages to cope with the many difficulties involved in decision-making on work in condominiums.

			The EIC makes awareness-raising tools available to condominiums: good practice guides, information sheets on various themes (financial subsidies, insulation and roof terraces, etc.) and an exhibition comprising five panels.
ENERGY INFORMATION CENTER - MARSEILLE PROVENCE	Local	<p>Set up by ADEME in 2001 as part of the national plan to improve energy efficiency, the network of Energy Information Centres (EICs) has been developed with local partnerships to offer the general public an information service on saving energy, rational use of energy and renewable energies.</p> <p>The Energy Information Centres (EIE - Espaces Infos > Energie) advise the public and assist individuals with insulation work, drawing attention to the local network of professionals capable of carrying out such work and helping individuals to take action (assistance with finance, technical and statutory support).</p>	<p>receiving the public at the centre: responding to requests for information and advice</p> <p>carrying out specific local projects: targeting a specific audience that does not spontaneously apply to the EIC in order to increase its reach</p>
FINANCIAL AND SUPPORT INSTRUMENTS FOR FUEL POVERTY IN SOCIAL HOUSING IN EUROPE (FINSH) FRANCE, UNITED KINGDOM, GERMANY, ITALY, POLAND	CrossNational	<p>The absence of specific financial mechanisms and the lack of social support on the ground are often identified as serious constraints on projects aimed at improving the energy efficiency of these households' homes and appliances.</p> <p>Since 2007, GERES has been co-ordinating a European project initiated on the theme of energy poverty. With 6 partners in 5 European countries, the FinSH "Financial and support instruments for fuel poverty in Social Housing" programme aims to break down existing financial and social barriers to give disadvantaged households the opportunity to renovate their homes and possess energy-saving appliances.</p>	<ul style="list-style-type: none"> - Improvement of the quality and quantity of financial mechanisms for effectiveness energy to households. - Improved sustainability of interventions in the fight against precariousness by identifying the methodology used and the necessary skills. - Dissemination of the results via the website, the publication of guides, the network of projects
positive energy operation 54-unit pilot project in Brétigny-sur-Orge	Local	<p>Immobilière 3F has just delivered its first positive energy operation, within the Clause Bois-Badeau eco-district of Brétigny-sur-Orge. This 54-unit pilot project, emblematic of 3F's sustainable development approach, produces as much energy as it consumes. All of the consumption is compensated by the production of 1200 m² of photovoltaic cells. Immobilière 3F decided in 2009 to carry out a project at the forefront of sustainable development: it is experiencing here for the first time the BEPOS label, defined by the association Effinergie.</p>	<p>A pedagogic effort will be carried out towards the inhabitants to teach them how to use this building. A green gesture booklet will be given to them, so that they adopt simple gestures to benefit from the decrease in energy consumption. A touchscreen, installed in each home, will allow tenants to view their consumptions in real time.</p>

Chanteloup-en-Brie (77): A pilot operation of 35 houses in wood and hemp	Local	<p>The Marne-la-Vallée Public Development Agency is carrying out a pilot operation of 35 individual wooden houses with hemp wool in Chanteloup-en-Brie (77).</p> <p>This operation was carried out according to a collaborative approach, involving public and private contributors to the consultation process of real estate operators</p>	<ul style="list-style-type: none"> -Passiv Haus (German energy efficiency label); -Monitoring and analysis of consumption for three years; -Integration of biosourced materials (wood and hemp); -Mobilization of the public in social integration.
Workshop to raise awareness of energy saving among public in precarious energy	Local	<p>The Info-Énergie Space (EIE) of Ternois-Lys Romane is setting up, with its partners, thematic workshops on energy management. The main partners of the EIE are social workers, who invite their most precarious audiences to receive advice on how to manage energy expenditure. The objective of the EIE is to provide simple answers adapted to the problems of each one.</p>	<p>Strengthen the accompaniment paths for households in situations of Energetic Insecurity:</p> <p>In-depth support for improving practices (awareness of eco-gestures, etc.).</p> <p>Creating the conditions for a better management of the Energy Precariousness:</p> <p>Qualification, training of the actors.</p>
TRIME	CrossNational	<p>TRIME is a project that can help social housing residents to reduce their energy use and cost of bills. The project has explored ways to support social housing residents to save energy. There are 7 social housing organisations that are participating in the project.</p> <p>This website provides you with advice on how to get social housing residents involved in saving energy, and how to set up an Energy Ambassador Model. See the Resources section for a full guide on what to do, and for training materials.</p>	<p>To reach residents through the Energy Ambassador model (The Netherlands and Belgium)</p> <p>To reach residents through promoting the Challenge</p> <p>To measure the energy saved by residents</p>

SMARTER TOGETHER	CrossNational	SMARTER TOGETHER's overarching vision is to find the right balance between smart technologies and organizational/governance dimensions in order to deliver smart and inclusive solutions and to improve citizen's quality of life.	Large-scale replication will be prepared; 1) in the Lighthouse cities; 2) the Follower cities, which already selected their target area; 3) A Club of 15-20 cities, associate to intensify its roll-out, ensuring a broad geographical and climate coverage. Commercial exploitation is enhanced by the development of new business models for widespread use by the stakeholders. Contributions to open data are expected to create business opportunities as well as inputs to standardization work. Expected results are: 1) >151,800 m ² of refurbished buildings, primarily housing estate with a 50-60 % average energy and CO ₂ reduction; 2) 14.6 MW of newly installed renewable capacity; 3) 10/15 new e-mobility solutions for passengers and freight); 4) 1400 created jobs, 130 M€ investments, all deployed with support of integrated ICT solutions and in dialogue with the inhabitants.
STEP_BY_STEP	CrossNational	Contrary to traditional door-to-door canvassing, often seen as a one-shot deal, our project solicits targeted households regularly through email or by phone and accompanies them over a 20 month period towards the adoption of energy-saving practices. To reduce the attitude-behaviour gap, our system uses proven communication techniques that push towards action. Households are regularly encouraged to try new ecological gestures adapted to their level of motivation. Feedback is given and social norms are used.	The main goal of the STEP_BY_STEP is to maximize the number of households in a given area that significantly change their behaviour at home. Desired behaviour change includes reduced electricity consumption and the investment in energy efficient products and/or high quality renewable energy products.

Creating liveable neighbourhoods while lowering transport energy consumption (PRO.MOTION)	CrossNational	The project addressed car dependency on three levels: 1. improving the objective conditions for a way of life that consumes less energy 2. changing people's perception and mobility behaviour, and 3. motivating people to live an energy saving life.	The objective was to change mobility behaviour by influencing people's travel decisions where the most important ones are made: at home. This was achieved by addressing three levels: • Improving conditions for sustainable modes • Changing perception and increasing awareness of sustainable modes • Encouraging people to adopt a less energy consuming lifestyle.
Energy, Education, Governance and Schools. A European school panel for involving local communities in energy efficiency programs (EGS)	CrossNational	The main actor contributing to involve a whole community and at the same time training the younger generations is the school. The project developed an actual framework for the implementation of energy efficiency at school including a manifesto and courses for schools staff and for students. The core aim of the project was focussing on the involvement of local actors in 4 processes: educational programmes, teachers training, involvement of the local productive sector and governance.	To enhance the key role of high schools in the involvement of local stakeholders (students, families, small and medium enterprises, local authorities, other schools) in the process of improving the energy efficiency and literacy of their communities.
TRIBE : TRaining Behaviours towards Energy efficiency: Play it!	CrossNational	TRIBE project aims to contribute to a citizens' behaviour change towards energy efficiency in public buildings, through their engagement in the experience of playing a social game, linked by ICT to real time data collected from 5 pilot buildings hosting around 1.300 regular users (employees, tenants...) and almost 12.000 eventual users (visitors). The targeted average energy savings in the pilots is 24,8% of the current energy consumption.	(1) an initial energy audit and diagnosis, (2) the development of a virtual pilot in conformity with the image of their real buildings, (3) an adapted ICT for energy efficiency deployment plan, (4) a funding scheme merging existing instruments with clean web solutions and (5) a user engagement campaign addressing the specific behaviour change challenges.
TOPTEN ACT : Enabling consumer action towards top energy-efficient products	CrossNational	TOPTEN ACT develops a comprehensive market transformation strategy targeting consumers, manufacturers, retailers, large buyers, consumer associations and other key actors in 16 European countries, covering a combined population of 447 Mio inhabitants. It works with these actors to help them embrace and promote energy-efficient products, so that they become the natural choice for consumers.	TOPTEN ACT impacts are both quantitative —savings of 331 GWh/year triggered per million € invested— and qualitative: markets are more transparent, media report on top efficient products, multipliers relay the Topten message to their target groups, consumers change their

			using and purchasing behaviour, retailers change their range and highlight BAT products, manufacturers shift their production lines.
Rescoop	CrossNational	The 'REScoop 20-20-20 project' helps to improve social acceptance of RES-e generation with its proven model of local cooperative citizen involvement. The overall goal of the project is to speed up the creation of RES projects and related cooperatives in various member States.	specific objectives: (i) Inventory existing REScoops and their RES projects in order to identify their added value in fostering RES in Europe; (ii) Developing and testing methodologies based on best practices (Business structures and financing models for new REScoops; (iii) Dissemination of cooperative RES approaches.
Boosting efficiency in electricity use in 8 European regions (EL-EFF REGION)	CrossNational	The project boosts efficiency in electricity use in 8 European regions, it analyses and tackles areas with specific growth rates by developing regional plans and implementing targeted promotion and dissemination activities.	8 regional action plans to boost electricity efficiency 8,000 decision makers in public administration and businesses reached reaching 5% of the population in each region, equalling more than 800,000 citizens motivating 560 households and 240 companies/institutions to participate in the "Minus 10% action" 18 events with over 1,000 participants
Persuasive force of children through education (FEEDU)	CrossNational	FEEDU was an educational project carried out in 9 European countries by 13 regional energy advice centres aimed at teachers and pupils of primary schools in order to obtain consciousness and results about renewable energy sources, rational use of energy and mobility.	Teachers were trained in energy education, they received the methodology and the necessary educational tools and experiences related to energy and mobility issues. A project-based learning plan in schools for a school year has the objective to changing attitudes of the pupils and their parents with respect to their energy consumption and mobility.

Eco n' Home or how to reduce energy consumption in Household (ECO N' HOME)	CrossNational	Eco n' Home aimed at exploring an innovative approach to reducing the energy consumption of households, by setting up a practical service for households that provides advice and identifies possible improvements in their day-to-day energy consumption. It consists of a home energy diagnosis that enables the advisor to report energy consumption and draw up a list of recommendations of behaviour changes	Target reduction of CO2 emissions (1 ton per household per year) and energy consumption (10 to 20%) per household followed through behavioural changes, replacement and/or reconditioning of energy systems, appliances, regulation systems, and building envelope. Communication activities to the public on the results of the project through the Eco n'Home website (http://www.econhome.net) that has a section to count CO2 saved and kWh savings.
European Network of Information Centres promoting Energy Sustainability and CO2 reduction among local COMmunities (ENESCOM)	CrossNational	ENESCOM aimed at enhancing the role of local communities in mitigating climate change by creating a common methodology to promote and develop capacity building in energy sustainability and for the adoption of sustainable energy policies. The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans. The project promoted integration, the institutionalization of energy efficiency and the uptake of RES through widespread information and dissemination activities. It also promoted and fostered adhesion to the Covenant of Mayors' initiative.	The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans.
European Solar Days II (ESD II)	CrossNational	The European Solar Days II project aimed at raising European consumers' awareness about the potential and benefits of intelligent energy solutions, especially for solar energy - solar thermal heating and cooling and photovoltaic electricity production.	The basic strategy of the concept was to mobilise citizens and different entities (municipalities, NGOs and others) to organise events dedicated to the sun as a source of energy and its use. The wide range of events drew the attention to the potential of solar energy and helped inform potential consumers on how they can apply solar energy in their homes.

Financial and Support Instruments for Fuel Poverty in Social Housing (FINSH)	CrossNational	The aim of the project FinSH was to develop relevant support schemes to address financial and social barriers to access to energy efficiency retrofitting in social housing. It contributed to the reduction of fuel poverty and to the increase of energy saving in social housing in Europe. One key of the project is to combine financial, social and energy approaches.	Financial products and related necessary social schemes to increase energy efficient retrofit in social housing Enhanced communication and networking between actors from various expertises: finance, social, energy. Increased information on existing financial possibilities to increase the use of energy efficient equipment and retrofit Contribution from the project to the increase of energy savings and CO2 reduction.
FRESH	CrossNational	FRESH (Financing energy Refurbishment for Social Housing) was a project supported by the Intelligent Energy Europe programme that aimed at demonstrating to Social Housing Operators that Energy Performance Contract (EPC) can be used for low energy refurbishment of social housing on a large scale. FRESH partners identified pilot sites and worked out the legal, financial and technical framework for EPC's in social housing.	The main objective of this project was to test EPC in four countries (France, UK, Italy and Bulgaria) and to develop generic tools for the broader dissemination of EPC in social housings.
Promotion of energy efficient appliances (PROMOTION 3E)	CrossNational	Promotion 3E aimed at reducing the energy consumption of households' electric equipments and products by implementing actions to encourage the take-up of energy-efficient appliances as well as measures that increase quality and efficiency of information available to the consumers	These measures have led to higher market share for the most energy-efficient household appliances and contributed to accelerate their market penetration.
SAVE@Work4Homes - Supporting European Housing Tenants in Optimising Resource Consumption (SAVE@WORK4HOMES)	CrossNational	The project aimed to help tenants improve their energy awareness by encouraging them to monitor consumption and by providing them with information including heating data and data analyses. Notebooks for property managers and a handbook for tenants were planned.	The project has designed and developed a set of Energy Awareness Services for their tenants and implemented them in six pilot sites managed by six social housing companies in Europe.

SPIRIT - Energising Faith Communities (SPIRIT)	CrossNational	The project engaged faith based organisations in a programme that aimed to achieve measurable energy savings, CO2 emissions reduction and lasting behaviour change. There was limited experience of involving faith based networks in energy efficiency activities. Through SPIRIT, partners facilitated the mobilisation of these networks, by training and supporting members of faith communities to become volunteer Energy Champions, who delivered energy saving advice to fellow members of their communities.	Engaging faith based communities to raise awareness on energy efficiency Recruiting and training volunteer Energy Champions within these communities Organising advice sessions to share concrete energy saving solutions with interested households, helping them to reduce their energy consumption at home
Evaluation of Energy Behavioural Change Programmes (BEHAVE)	CrossNational	BEHAVE aimed to enhance the performance of energy-related behaviour change programmes by adopting a rigorously scientific approach to evaluating a wide range of recent examples, and by developing an effective model for design, implementation and evaluation of this type of programmes for use by policy makers, programme designers/managers, and consumer organisations.	The evaluation covered 40 cases, selected out of an inventory of a 100 examples of various types of behaviour programmes, such as education, mass media campaigns, direct feedback, personal advice, community network approaches and innovative use of ICT tools. BEHAVE made theoretical insights explicit and facilitated learning from experiences. In doing so BEHAVE was not only contributing to better programme design and implementation in the future, but also to a better understanding of social and cultural influences on energy behaviour, through the analysis of impacts in different national settings.

Integration of Active Learning and Energy Monitoring with School Curriculum (ACTIVE LEARNING)	CrossNational	The project promoted active learning and energy monitoring as a tool for energy education among children aged 6-12 years the idea. The project aimed to change attitudes towards energy use among the future generation plus short- and long-term energy savings in school buildings and private households.	In order to ensure that energy efficiency, renewable energy and transport become a more permanent topic in primary school education the project tried to lay the basis for integration of active learning into the national curricula. Illustrative success stories are by far the best way to promote any topic. The project created forerunners by inviting at least 150 schools to test a toolbox of selected material, created especially for teachers for integration with KidsCorner.
Residential Monitoring to Decrease Energy Use and Carbon Emissions in Europe (REMODECE)	CrossNational	The project evaluated how much electricity could be saved by the use of the most efficient appliances and by the reduction of standby consumption. The research focused mainly new electronic loads such as: entertainment, information and communication technologies, stand-by consumption, lighting, as well as air conditioning in some southern countries.	Updated European database on residential consumption, including central and eastern European countries. Methodologies to combine the use of selective monitoring with wider-scale surveying. A software tool for evaluating energy performance in households. A set of policy recommendations for different types of equipment.
The Energy Path: an e-learning platform for education of the new generations in the sustainable energy field (ENERGY PATH)	CrossNational	Energy-Path develops the first innovative e-learning platform at European level, based on open source technology, containing didactic resources on RES, RUE, Transport and mobility which allows the online updating of the Web's contents and didactic material.	This Platform will sensitize and train the target audience in the involved countries, promoting the development of a new model of environmental education, affecting the changes of attitude, creating a conscience of individual and collective commitment with the acceptance and boost of the clean technologies and its good use.

European fuel Poverty and Energy Efficiency (EPEE)	CrossNational	Retrofitting of old buildings for low-income tenants with a focus on identifying the most effective measures for the national context and highlighting fuel poverty as a priority in policy; Qualify and Quantify energy poverty; Finding mechanisms to address climate change and reducing fuel poverty through retrofitting buildings	Evaluation of types of existing mechanisms (legislative, financial, technical, etc.), stakeholders, best practice; status in different countries.
EPORE - Energy Poverty Reduction in Eastern Europe	CrossNational	EPORE aims at supporting clearly defined groups of vulnerable consumers in tackling fuel poverty by facilitating more sustainable energy behavior and choices in their everyday life. It aims also at achieving structural changes of national policies to specifically address fuel poverty and include the transfer of best practices for the active engagement of vulnerable consumers.	1) creation of new working positions called "energy scanners", lower educated and long-term unemployed people trained to undertake an energy screening of the energy situation of a household, in which the household receive energy tips and energy saving devices, 2) guideline for addressing fuel poverty definition, condition and transfer of best practice (delivered to national policy-makers), 3) manual with tailored scheme of incentives in three specific selected region, 4) pilot actions in the three areas and condition/improvements monitoring after 12 months
Loos Rehab	Local	"Loos Rehab" is a large-scale rehabilitation project in the commune of Loos-en-Gohelle concerning both public, social and private built heritage. The municipality is the accompaniment of all the inhabitants in their energy saving: diagnoses, technical advice, accompaniment in a work procedure, financial aid ...	-Fighting climate change and its impact on the eco-system -Improved comfort in the home -Increased purchasing power and living standards -Dynamisation of the economic sector rehabilitation and eco-materials

GREECE (GR – 30)

Name	Scale	Description	Objectives
European Citizens Climate Cup (ECCC)	CrossNational	ECCC is a competition of householders within and between countries with the target to achieve the highest energy savings. The participating households use a web tool – the interactive Energy Savings Account (ESA). ESA collects and assesses all consumption and cost data of meter readings and energy bills. Households also receive tips on improving their energy efficiency.	Lowering electricity consumption and energy consumption for heating.
ELIH MED - A EURO-MEDITERRANEAN PROGRAM TO FIGHT ENERGY POVERTY	CrossNational	Pilot energy retrofit projects with the support of European funds, testing innovative funding mechanisms and comprehensive approaches integrating the occupants.	Its main objective is to identify and test, through large scale pilot actions, the feasibility of cost efficient technical solutions and innovative financial mechanisms for improving energy efficiency in low-income households.
iBROAD : Individual Building (Renovation) Roadmaps	CrossNational	The BROAD approach is an evolution of EPC and energy audit systems, aiming to become a real driver for renovation. The project will identify the elements, develop an integrated concept, and produce modular tools, suitable for differing national conditions.	providing knowledge and experience of deep renovation in individual buildings, increasing the renovation rate and depth across the EU.
SAVES2: Students Achieving Valuable Energy Savings 2	CrossNational	SAVES2 targets students living in university accommodation (dormitories) and in private-rented housing. It helps them to change their energy behaviour and reduce their exposure to energy poverty.	Students in dormitories save energy, competing with their peers in other dormitories. Students follow their performance online and receive feedback, which encourages further action.
Accelerated Penetration of Small-Scale Biomass and Solar Technologies (ACCESS)	CrossNational	The ACCESS project addresses small-scale technologies that utilise biomass and solar energy for heating and hot-water supply in dwellings with individual and local heating systems	The project aimed to contribute to the large scale market penetration of these technologies by 1) developing a virtual market network; 2) exploring systematically the biomass energy potential and perspectives for its increase; 3) developing a method for the identification of optimal combined schemes; 4) promoting standards for both the

			concerned technologies and biomass products; 5) developing training courses; 6) elaborating optimal financing schemes; 7) dissemination activities.
enCOMPASS : Collaborative Recommendations and Adaptive Control for Personalised Energy Saving	CrossNational	Project implements and validates an integrated socio-technical approach to behavioural change for energy saving, by developing innovative user-friendly digital tools to make energy consumption data available and understandable for different stakeholders.	It will demonstrate how this can be achieved with a holistic approach that integrates visualisation of energy data collected from smart sensors, user-generated information and context-aware collaborative recommendations for energy saving, intelligent control and adaptive gamified incentives.
Sustainable Energy Communities in Historic URBan Areas (SECHURBA)	CrossNational	This project developed new ways to encourage energy efficiency practices and renewable energy systems in households located in historic city buildings.	informing and educating households regarding renewable technologies and energy efficiency methods.
Promoting best practices to support energy efficient consumer behaviour on European islands (PROMISE)	CrossNational	PROMISE was born as a response to the need of reducing residential energy consumption in European islands. Domestic energy use is still largely invisible to the user, while rapidly increasing due to larger homes, new services and additional appliances.	By sharing information and experience, energy agencies from Samso (Denmark), Iceland, Rhodes (Greece) and Tenerife (Spain) aimed to promote tried-and-tested methods for reducing the energy consumption of households. Public authorities, both local and national, have been involved and policy recommendations with concrete action lines have been elaborated that favour energy efficient consumer behaviour.
European Young Energy Manager Championship (EYEMAN CHAMPIONSHIP)	CrossNational	The basic idea was to organise and execute a stimulating and motivating international competition for awarding the best European Young Energy Manager Team. The teams were challenged with a task of energy management in the places where they spend most of their time: schools and homes.	The project included a "peer to peer transfer": EYE-students trained other students concerning energy using products, energy saving behaviours and energy managerial criteria. EYE-

			teachers transferred the curricula and education tools and methods developed to their colleagues.
Persuasive force of children through education (FEEDU)	CrossNational	FEEDU was an educational project carried out in 9 European countries by 13 regional energy advice centres aimed at teachers and pupils of primary schools in order to obtain consciousness and results about renewable energy sources, rational use of energy and mobility.	Teachers were trained in energy education, they received the methodology and the necessary educational tools and experiences related to energy and mobility issues. A project-based learning plan in schools for a school year has the objective to changing attitudes of the pupils and their parents with respect to their energy consumption and mobility.
Common appliance policy – All for one, One for all – Energy Labels (COMEON LABELS)	CrossNational	The ComeOn Labels project aimed at collecting, summarising and sharing the best European experience related to the energy labelling of household appliances and defining and applying the most effective supporting actions for the proper implementation of the new labelling scheme.	1. Understanding the legislation 2. Proper information on labels 3. Proper display of energy labels 4. Consumer awareness 5. Product replacement schemes
European Network of Information Centres promoting Energy Sustainability and CO2 reduction among local COMmunities (ENESCOM)	CrossNational	ENESCOM aimed at enhancing the role of local communities in mitigating climate change by creating a common methodology to promote and develop capacity building in energy sustainability and for adoption of sustainable energy policies. It promoted integration, institutionalization of EE and uptake of RES through widespread information and dissemination activities.	The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans.
Promotion of energy efficient appliances (PROMOTION 3E)	CrossNational	Promotion 3E aimed at reducing the energy consumption of households' electric equipments and products by implementing actions to encourage the take-up of energy-efficient appliances as well as measures that increase quality and efficiency of information available to the consumers	These measures have led to higher market share for the most energy-efficient household appliances and contributed to accelerate their market penetration.

SAVES (Students Achieving Valuable Energy Savings)	CrossNational	The project supports students in minimising their carbon footprint in their accommodation, promotes energy efficiency, and contributes to installing enduring good sustainability habits. It also highlights the significant benefits of smart meters for students.	reducing students' energy usage as well as their exposure to fuel poverty, saving quantifiable amounts of energy in student dormitories through energy saving behaviours (4.23 GWh); developing pro-environmental behaviours and energy-saving habits by students in higher education;
REMODECE (Residential Monitoring to Decrease Energy Use and Carbon Emissions in Europe)	CrossNational	REMODECE contributed to an increased understanding of existing and impending electricity use by European households resulting from different types of equipment, consumers' lifestyles, and comfort levels. The project evaluated how much electricity could be saved by the use of the most energy efficient appliances, by adopting a suitable behaviour and by the reduction of standby consumption.	Estimating the energy savings potential in electricity consumption of the EU residential sector and providing a set of policy and practical recommendations for different types of equipment (i.e. Electric Appliance Energy Guides)
Pattern of Energy Efficiency in the Schools (P.E.E.S.)	CrossNational	P.E.E.S. is an educational project which aims at developing energy awareness of students attending the secondary schools with a strong attention on the involvement of the teachers. In order to obtain significant changes in the behaviours of energy-system users and to encourage a sustainable use of the energy, the project goes beyond simple dissemination of knowledge and promotes cooperation and cultural exchange among students and teachers from the six participating countries.	Contribution to the forming of an "energy consciousness" among the students involved in the educational programmes of the project; Energy School Management in the pilot-schools.
Creating Actions among Energy Conscious Children (KIDS4FUTURE)	CrossNational	The project targeted pilot schools with a common energy story, events and websites for children. The main aim was to create understanding and enthusiasm for the issue of energy saving, sustainable future, and the global energy challenges.	changing perceptions of children and their families about energy use and sustainability.

Evaluation of Energy Behavioural Change Programmes (BEHAVE)	CrossNational	BEHAVE aimed to enhance the performance of energy-related behaviour change programmes by adopting a rigorously scientific approach to evaluating a wide range of recent examples, and by developing an effective model for design, implementation and evaluation of this type of programmes for use by policy makers, programme designers/managers, and consumer organisations.	The evaluation covered 40 cases, selected out of an inventory of a 100 examples of various types of behaviour programmes, such as education, mass media campaigns, direct feedback, personal advice, community network approaches and innovative use of ICT tools. BEHAVE made theoretical insights explicit and facilitated learning from experiences. In doing so BEHAVE was not only contributing to better programme design and implementation in the future, but also to a better understanding of social and cultural influences on energy behaviour, through the analysis of impacts in different national settings.
Integration of Active Learning and Energy Monitoring with School Curriculum (ACTIVE LEARNING)	CrossNational	The project promoted active learning and energy monitoring as a tool for energy education among children aged 6-12 years the idea. The project aimed to change attitudes towards energy use among the future generation plus short- and long-term energy savings in school buildings and private households.	In order to ensure that energy efficiency, renewable energy and transport become a more permanent topic in primary school education the project tried to lay the basis for integration of active learning into the national curricula. Illustrative success stories are by far the best way to promote any topic. The project created forerunners by inviting at least 150 schools to test a toolbox of selected material, created especially for teachers for integration with KidsCorner.
The Energy Path: an e-learning platform for education of the new generations in the sustainable energy field	CrossNational	Energy-Path develops the first innovative e-learning platform at European level, based on open source technology, containing didactic resources on RES, RUE, Transport and mobility which allows the online updating of the Web's contents and didactic material.	This Platform will sensitize and train the target audience in the involved countries, promoting the development of a new model of environmental education, affecting the changes of attitude, creating a conscience of

(ENERGY PATH)			individual and collective commitment with the acceptance and boost of the clean technologies and its good use.
RES and RUE Stimulation in Mountainous Agricultural communities towards sustainable development (MOUNTAIN-RES/RUE)	CrossNational	The main objective of the project was to stimulate renewable energy sources and the rational use of energy in local agricultural communities located in mountainous regions. The needs and prospects of these communities were analysed and ideas for the launch of new technologies and land use planning identified. Viable and socially matured RES and RUE project opportunities and a guide for self-sufficient energy communities were prepared.	stimulate renewable energy sources and the rational use of energy in local agricultural communities located in mountainous regions.
ERACOBUILD - Countdown to Low Carbon Homes	CrossNational	The goal of the project was to develop a one stop service for the sustainable energy retrofit of homes, informing people wishing to improve the energy efficiency of their home about low cost retrofit methods, and about long term benefits for the environment and their own family budget. Community scale delivery models for home energy improvements were developed, an alternative financing mechanism for home energy improvements (Revolving Retrofit Guarantee Fund) was established, and an evidence base was built through action research with households and installers.	energy surveys of households to help them understand how their homes use energy and find options to cut their energy use through domestic retrofit
"Electric Transport" (ELE.C.TRA)	City	Ele.C.Tra. promotes "green" mobility by raising awareness and by increasing the use of electric scooters in urban areas, through short sharing (e.g. for one day) or rent (e.g. for six months). Also tested a new mobility system based on an innovative model aimed at the development of the sustainable mobility that answers the accessibility needs of citizens (house-work, house-school, house-keeping transfers, ...) that cannot be fully solved by public transports.	change people's mobility patterns (promotion of "green" mobility)
A Direct Marketing Programme for Public Transport (AD PERSONAM)	CrossNational	The project started from the assumption that in small-medium sized cities it is very difficult to persuade citizens to use public transport (PT), since the use of motorised private transport is still perceived as sustainable. Experience shows that traditional promotional campaigns have scarce impact in changing citizens' mobility behaviours.	Ad Personam intended to promote public transport through a Direct Marketing Programme

Actions to increase Energy Awareness and improve the Sustainable Behaviour of European Citizens (10ACTION)	CrossNational	The 10ACTION project disseminated the values promoted by the Solar Decathlon Europe (SDE) Competition by raising awareness and reaching the EU sustainability objectives in the European society. These values encourage the responsible use of energy, and foster the application of renewable energy and energy efficient technologies.	Rising awareness and promotion of EU sustainability objectives
BAMBINI - Socialisation towards clean and energy efficient transport (BAMBINI)	CrossNational	BAMBINI tried to change the mobility behaviour of families (car use) by targeting children (age 0-6) and their parents. Key actors from the baby & child merchandise industry, child care facilities, educational bodies and municipalities were enlisted to work together in bringing about a shift towards more sustainable mobility.	Change the mobility behaviour of families
Campaign to fight against fuel poverty and raise awareness on energy efficiency and energy savings (ENERGY AMBASSADORS)	CrossNational	The Energy Ambassadors campaign aimed at tackling energy poverty and helping vulnerable groups in managing their water and energy consumptions through the intervention of social workers that have been trained on these issues. Social workers provide energy advices to vulnerable population, which is taught how to reduce their energy consumption significantly with simple actions.	Tackling energy poverty and helping vulnerable groups in managing their water and energy consumptions
Energy Neighbourhoods 2 - The Energy Challenge (EN2)	CrossNational	EN2 is an energy-saving bet between cities and citizens. Cities challenged their citizens in two consecutive years to save at least 9% energy in 4 months compared to the previous year. The competition was combined with measures such as training for households and municipalities, consumption monitoring and local climate campaigns.	Change consumer behaviour and achieve energy savings
Energy BITS – Young people and media for a low energy footprint (E-BITS)	CrossNational	A campaign which developed 24 documentaries, interactive web docs and interactive game for young people with the aim to stimulate behavioural change regarding an efficient and sustainable use of energy. E-BITS engaged young people in producing user-generated-content to reinforce sustainable energy messages and the content was widely disseminated using TV broadcasters' and web channels.	Stimulate behavioural change regarding an efficient and sustainable use of energy

Strengthening Energy Efficiency Awareness Among Residential Homes for Elderly People (SAVE AGE)	CrossNational	The SAVE AGE project aimed to raise awareness, encourage measures in energy efficiency, monitor and assess energy use in residential homes for elderly people. The main goals: to identify best practices (technical, behavioural and financial), to test them through concrete pilot-cases, to promote them towards 24,000 residential care homes across Europe and to train 540 managers.	To change energy use practices in residential homes for the elderly
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ITALY (IT - 44)

Name	Scale	Description	Objectives
European Citizens Climate Cup (ECCC)	CrossNational	ECCC is a competition of householders within and between countries with the target to achieve the highest energy savings. The participating households use a web tool for their energy management – the interactive Energy Savings Account (ESA). ESA collects and assesses all consumption and cost data of meter readings and energy bills. Households also receive individualized emails and newsletters with tips on improving their energy efficiency.	Lowering electricity consumption and energy consumption for heating.
POWERHOUSE NEARLY ZERO CHALLENGE (POWER HOUSE NZC) http://www.powerhouseeurope.eu/startpage/	CrossNational	This initiative, run by Housing Europe in partnership with 13 housing federations across the EU, aimed to boost the number of nearly-Zero Energy homes across the continent by sharing ideas and expertise between Public, Cooperative and Social Housing professionals. It has provided a great opportunity for housing providers to share learnings, gather accurate performance data and make progress on energy efficiency throughout Europe.	building capacity and confidence among Europe's social, cooperative and public housing providers ahead of NZEB obligations; mainstreaming effective solutions; showcasing exemplary financing and organisational solutions used to reach nearly zero standards in existing housing in divided ownership
USMARTCONSUMER	CrossNational	The USmartConsumer project is aimed at enhancing European households (tenants and owners) from the improved information facilities of their smart meter, informing and involving them on the innovative services that help them to save electric, gas or district heating energy and get user-friendly interfaces, thus improving consumer's engagement.	To promote the smart meter rollout and services to household sector (market activation and awareness campaigns) and lower energy consumption

ELIH MED - A EURO- MEDITERRANEAN PROGRAM TO FIGHT ENERGY POVERTY	CrossNational	The project aims to carry out 10 pilot energy retrofit projects in 5 countries in the Mediterranean area of the European Union with the support of European funds, testing innovative funding mechanisms and comprehensive approaches integrating the occupants. 405 households spread into partner territories: 110 in Spain and Greece, 95 in Italy, 35 in Malta, 30 in France, 25 in Cyprus	The final target of the project is low-income households, which typically occupy low-energy efficient housing and can not afford energy-efficient renovations that would allow them to better comfort.
FINANCIAL AND SUPPORT INSTRUMENTS FOR FUEL POVERTY IN SOCIAL HOUSING IN EUROPE (FINSH) FRANCE, UNITED KINGDOM, GERMANY, ITALY, POLAND	CrossNational	The absence of specific financial mechanisms and the lack of social support on the ground are often identified as serious constraints on projects aimed at improving the energy efficiency of these households' homes and appliances. Since 2007, GERES has been co-ordinating a European project initiated on the theme of energy poverty. With 6 partners in 5 European countries, the FinSH "Financial and support instruments for fuel poverty in Social Housing" programme aims to break down existing financial and social barriers to give disadvantaged households the opportunity to renovate their homes and possess energy-saving appliances.	- Improvement of the quality and quantity of financial mechanisms for effectiveness energy to households. - Improved sustainability of interventions in the fight against precariousness by identifying the methodology used and the necessary skills. - Dissemination of the results via the website, the publication of guides, the network of projects
CLEAR Consumers to Learn about, Engage with and Adopt Renewable energy technologies	CrossNational	CLEAR's objective is to lower market barriers to the purchase of RES, hence raising consumers capacity to take informed decisions. The result should be a significant uptake in the purchase of renewable energy solutions (RES) by European consumers and therefore an important contribution to the 2020 European targets	The aim of CLEAR - enabling Consumers to Learn about, Engage with and Adopt Renewable energy technologies - is to actively guide consumers through all the stages leading to the purchase of domestic renewable and low-carbon energy technologies. The main needs of a home, including heating/cooling, electricity and domestic hot water, are addressed through a consumer-centric approach and actions that are meant to lead to the purchase of renewable energy technologies such as solar photovoltaic, solar thermal, heat pumps and wood pellet stoves (for space heating).
About EnergizAIR The renewable energy weather	CrossNational	EnergizAIR adds positive indicators about the part of the energy needs that were covered thanks to renewable energy sources in the weather forecast. To set up an operational	Actual broadcasting of the renewable energy weather forecast in 5 countries

forecast - Europe		<p>"renewable energy weather forecast" tool in France, Italy, Portugal, Slovenia and Belgium that will be widely broadcasted (4 million people reached at least) on a weekly basis at first.</p> <p>What do we put in the weather forecast? Production data and energy needs covering indicators about three technologies: PV, solar thermal and wind turbines.</p>	<p>One European website and 5 local supporting websites</p> <p>Interactive tools linking renewable energy with rational energy use</p> <p>Training for the weather anchors</p> <p>A methodology to transfer the concept to other countries</p>
EnerSHIFT : Energy Social Housing Innovative Financing Tender	National	<p>Regione Liguria, together with IRE (its dependent agency for energy, infrastructure and urban renovation) conceived this proposal which could allow for preparing feasibility studies with the final aim to launch a tender for investments to be made by ESCOs through an Energy Performance Contract (EPC). The EPC will enable the implementation of investments without or with limited public capital funding.</p> <p>EnerSHIFT project is based on the wish of the regional government to improve the quality of social housing buildings through retrofitting for the sake of low income people and to decrease energy consumption and related emissions while in the meantime boosting the local economy.</p>	<p>The main concept underpinning the project is that economic shortages and public spending review do not currently make it possible to find budget for design and for investment. One good solution is the use of innovative financial schemes such as Energy Performance Contracting for the first time in whole Liguria.</p>
SMARTER TOGETHER	CrossNational	<p>SMARTER TOGETHER's overarching vision is to find the right balance between smart technologies and organizational/governance dimensions in order to deliver smart and inclusive solutions and to improve citizen's quality of life.</p>	<p>Large-scale replication will be prepared; 1) in the Lighthouse cities; 2) the Follower cities, which already selected their target area; 3) A Club of 15-20 cities, associate to intensify its roll-out, ensuring a broad geographical and climate coverage. Commercial exploitation is enhanced by the development of new business models for widespread use by the stakeholders. Contributions to open data are expected to create business opportunities as well as inputs to standardization work. Expected results are: 1) >151,800 m² of refurbished buildings, primarily housing estate with a 50-60 % average energy and CO₂ reduction; 2) 14.6 MW of newly installed renewable capacity; 3) 10/15 new</p>

			e-mobility solutions for passengers and freight); 4) 1400 created jobs, 130 M€ investments, all deployed with support of integrated ICT solutions and in dialogue with the inhabitants.
STEP_BY_STEP	CrossNational	<p>Contrary to traditional door-to-door canvassing, often seen as a one-shot deal, our project solicits targeted households regularly through email or by phone and accompanies them over a 20 month period towards the adoption of energy-saving practices.</p> <p>To reduce the attitude-behaviour gap, our system uses proven communication techniques that push towards action.</p> <p>Households are regularly encouraged to try new ecological gestures adapted to their level of motivation. Feedback is given and social norms are used.</p>	<p>The main goal of the STEP_BY_STEP is to maximize the number of households in a given area that significantly change their behaviour at home. Desired behaviour change includes reduced electricity consumption and the investment in energy efficient products and/or high quality renewable energy products.</p>
2gether4vulnerability	CrossNational	<p>2gether4vulnerability is a 36 month European 'market activation - policy orientation' project to tackle fuel poverty and support vulnerable consumers. It answers the call requirements to actively engage consumers in the energy market and positively change behaviour in relation to energy consumption and to influence design of policy at all levels to tackle fuel poverty issues.</p> <p>Based on the conclusion of the "Energy Citizens' Forum", it combines activities that address both energy and social issues as fuel poverty is not only an energy issue nor can it be tackled in isolation of the bigger issue of poverty,</p>	<p>encompass the recruitment of persons with direct experience of vulnerability/fuel poverty, training them to increase their employability skills but, moreover, to maximise on the peer to peer benefits that they can offer in provision of advice . With specialist VCEA and advisory strategic steering committees each nation will undertake target actions to address the specific issue. In this way the action utilises the powerful effect of target group ownership of action + bespoke solutions designed in collaboration with the target groups/end users to deliver important lessons learned for dissemination and policy influence.</p>

4RinEU : Robust and Reliable technology concepts and business models for triggering deep Renovation of Residential buildings in EU	CrossNational	<p>4RinEU will define robust, cost-effective, tailorable deep renovation technology packages supported by usable methodologies, feeding into reliable business models. The project will minimize failures in design and implementation, manage different stages of the deep renovation process, from the preliminary audit up to the end-of-life, and provide information on energy, comfort, users' impact, and investment performance.</p> <p>The 4RinEU deep renovation strategy is based on 3 pillars: (i) technology (driven by robustness) to decrease net primary energy use (60 to 70% compared to pre-renovation)</p>	<p>Technology: to reduce demand (Prefab Multifunctional Façade, Comfort Ceiling Fan), to improve energy efficiency (Plug&Play Energy Hub, Objective-based RES Implementation), to improve building operations (Sensible Building Data Handler), and to reduce construction waste (Strategies for Components End-Of-Life). Methodology: to accurately understand renovation issues and potentials (Cost-Optimal Energy Audit), to ensure an effective and participated design (Investor and Building User-Oriented Design Tool and Method based on BIM), to reduce construction time and failures (Deep Renovation Implementation Management). Business model: to identify the level of risk of renovation process and to enable well-founded investments supported by tailor-made financial tools (Cost-effectiveness Rating System)</p>
MOBISTYLE : MOTivating end-users Behavioral change by combined ICT based tools and modular Information services on energy use, indoor environment, health and lifestyle	CrossNational	<p>The overall aim of MOBISTYLE is to raise consumer awareness and awareness of ownership, thus empowering consumers and providing confidence of choosing the right thing, by providing attractive tailor-made combined knowledge services on energy use, indoor environment, health and lifestyle, by ICT-based solutions. This awareness will support and motivate end-users to well informed pro-active behavior towards energy use, energy efficiency and health.</p>	<p>The objectives are:</p> <ol style="list-style-type: none"> 1. To make energy use and energy efficiency understandable and easy to handle 2. To provide understandable information to consumers on health and life style in relation to energy use 3. To motivate behavioral change of consumers/energy end-users by combined modular information on energy use 4. To foster new business models and applications

			5. To deploy and validate the developed solutions and services in different building types and user types, demonstrating a significant reduction of final energy use, prompted by these solutions.
IN-BEE : Assessing the intangibles: the socioeconomic benefits of improving energy efficiency	CrossNational	The main aim of IN-BEE is to address the theme of energy efficiency and to describe and provide evidence for the many intangible benefits of improving energy efficiency through a multi-disciplinary approach, combining methods, datasets, and techniques from cutting edge research in law and economics, humanities and consumer behavior, regulation and environmental sciences, as well as engineering.	<ul style="list-style-type: none"> • Developing a set of indicators to measure intangible benefits of energy efficiency • Developing Key Performance Indicators to assess the impact of energy efficiency strategies • Studying relevant cases and identifying best practices • Bridging policy makers and researchers through a web platform • Involving a vast audience of stakeholders
Energy, Education, Governance and Schools. A European school panel for involving local communities in energy efficiency programs (EGS)	CrossNational	The main actor contributing to involve a whole community and at the same time training the younger generations is the school. The project developed an actual framework for the implementation of energy efficiency at school including a manifesto and courses for schools staff and for students. The core aim of the project was focussing on the involvement of local actors in 4 processes: educational programmes, teachers training, involvement of the local productive sector and governance.	To enhance the key role of high schools in the involvement of local stakeholders (students, families, small and medium enterprises, local authorities, other schools) in the process of improving the energy efficiency and literacy of their communities.
TOPTEN ACT : Enabling consumer action towards top energy-efficient products	CrossNational	TOPTEN ACT develops a comprehensive market transformation strategy targeting consumers, manufacturers, retailers, large buyers, consumer associations and other key actors in 16 European countries, covering a combined population of 447 Mio inhabitants. It works with these actors to help them embrace and promote energy-efficient products, so that they become the natural choice for consumers.	TOPTEN ACT impacts are both quantitative —savings of 331 GWh/year triggered per million € invested— and qualitative: markets are more transparent, media report on top efficient products, multipliers relay the Topten message to their target groups, consumers change their using and purchasing behaviour, retailers change their range and highlight BAT products, manufacturers shift their

			production lines.
Rescoop	CrossNational	The 'REScoop 20-20-20 project' helps to improve social acceptance of RES-e generation with its proven model of local cooperative citizen involvement. The overall goal of the project is to speed up the creation of RES projects and related cooperatives in various member States.	specific objectives: (i) Inventory existing REScoops and their RES projects in order to identify their added value in fostering RES in Europe; (ii) Developing and testing methodologies based on best practices (Business structures and financing models for new REScoops; (iii) Dissemination of cooperative RES approaches.
enCOMPASS : Collaborative Recommendations and Adaptive Control for Personalised Energy Saving	CrossNational	The enCOMPASS project will implement and validate an integrated socio-technical approach to behavioural change for energy saving, by developing innovative user-friendly digital tools to make energy consumption data available and understandable for different stakeholders in ways that empower them to achieve energy savings and manage their needs in energy efficient, cost-effective and comfortable ways.	It will demonstrate how this can be achieved with a holistic approach that integrates visualisation of energy data collected from smart sensors, user-generated information and context-aware collaborative recommendations for energy saving, intelligent control and adaptive gamified incentives.
Smart-up project	CrossNational	A consortium led by Alphéeis, was selected by the H2020 program, it helps vulnerable households in 4 countries (Fr, IT, ES, UK), to use their Communicating counter to improve their energy saving. They are training formers, that they meet this vulnerable households show them how to reduce their comsumption.	Helping the Housolders to change their patterns to use New counters smarter.
DOMINO - Connecting Europe, Saving Energy	CrossNational	The DOMINO project will nudge more than 3,400 households from the regions of Brussels, Berlin and Naples towards more energy efficient behaviour and will connect participating households in their region to nurture peer-learning and strengthen social bonds. To this end, a variety of behavioural interventions will be combined in a smart plug challenge.	Throughout the project, data will be generated that allows looking into energy consumption patterns of households and their appliances. Furthermore, the actual potential for energy savings through behavioural change as well as through the application of smart plug technology and similar innovative product-system-services can be monitored and evaluated very precisely.

Energy-Conscious HOUseholds in ACTION (ECHO ACTION)	CrossNational	ECHO ACTION aimed at creating a model of active and voluntary involvement of families, local economic actors and financial institutes, co-ordinated by the local energy agency, who will contribute towards the implementation of local energy plans. This goal was achieved by dividing families into thematic working groups.	On one side it addressed families as final users to shift the "demand side" towards more responsible energy use. On the other side it aimed to organise companies and financial institutes to provide relevant services and products to the families.
Sustainable Energy Communities in Historic URBan Areas (SECHURBA)	CrossNational	This project aimed to look at historic buildings on a community level and try to develop ways to encourage energy efficiency practices and renewable energy systems into these communities and set best practice examples to encourage other communities and local actors and policymakers to follow suit.	The project showed cultural heritage as an opportunity to pave the way for carbon reductions rather than being considered a barrier. Audits will be undertaken in each partner area and software developed for use by key players (Planners, Architects, Conservation Officers) to make decisions regarding sustainable energy intervention. The local community will be engaged with throughout the whole process to ensure that feedback is gathered and also that there is a process of education regarding renewable technologies and energy efficiency methods.
FIESTA	CrossNational	FIESTA aims to cut down household energy consumption and related emissions, by fostering investments in production from renewable energy sources and purchase of more energy-efficient heating and cooling systems, and by conducting energy audits. Specially targeted are households of families with children and vulnerable consumers.	Reduction of home energy consumption (especially heating and cooling)
Promoting best practices to support energy efficient consumer behaviour on European islands (PROMISE)	CrossNational	PROMISE was born as a response to the need of reducing residential energy consumption in European islands. Domestic energy use is still largely invisible to the user, while rapidly increasing due to larger homes, new services and additional appliances.	By sharing information and experience, energy agencies from Samso (Denmark), Iceland, Rhodes (Greece) and Tenerife (Spain) aimed to promote tried-and-tested methods for reducing the energy consumption of households. Public authorities,

			both local and national, have been involved and policy recommendations with concrete action lines have been elaborated that favour energy efficient consumer behaviour.
European Young Energy Manager Championship (EYEMAN CHAMPIONSHIP)	CrossNational	The basic idea was to organise and execute a stimulating and motivating international competition for awarding the best European Young Energy Manager Team. The teams were challenged with a task of energy management in the places where they spend most of their time: schools and homes.	The championship started after an energy training of teachers and students and concluded with the EYE Manager Award which was won by the team obtaining the greatest economic savings. The project included a "peer to peer transfer": EYE-students trained other students concerning energy using products, energy saving behaviours and energy managerial criteria. EYE-teachers transferred the curricula and education tools and methods developed to their colleagues.
Instigating Simple Energy Efficient Behavioural Practices in Schools (FLICK THE SWITCH)	CrossNational	The objective was to influence the behaviour patterns of EU children and youth by motivating them to embrace the need for being responsible and sustainable in the use of energy. To achieve this, an EU-wide energy efficiency awareness and behaviour changing campaign for primary and secondary schools	A dynamic, interactive and highly relevant Flick the Switch Campaign website has been designed, built and launched on the internet to stimulate the interest of European kids, teens, teachers, parents, education boards, government authorities, energy stakeholders, energy experts, media, etc.
Persuasive force of children through education (FEEDU)	CrossNational	FEEDU was an educational project carried out in 9 European countries by 13 regional energy advice centres aimed at teachers and pupils of primary schools in order to obtain consciousness and results about renewable energy sources, rational use of energy and mobility.	Teachers were trained in energy education, they received the methodology and the necessary educational tools and experiences related to energy and mobility issues. A project-based learning plan in schools for a school year has the objective to changing attitudes of the pupils and their parents with

			respect to their energy consumption and mobility.
Common appliance policy – All for one, One for all – Energy Labels (COMEON LABELS)	CrossNational	The ComeOn Labels project aimed at collecting, summarising and sharing the best European experience related to the energy labelling of household appliances and defining and applying the most effective supporting actions for the proper implementation of the new labelling scheme.	<ol style="list-style-type: none"> 1. Understanding the legislation 2. Proper information on labels 3. Proper display of energy labels 4. Consumer awareness 5. Product replacement schemes
Eco n' Home or how to reduce energy consumption in Household (ECO N' HOME)	CrossNational	Eco n' Home aimed at exploring an innovative approach to reducing the energy consumption of households, by setting up a practical service for households that provides advice and identifies possible improvements in their day-to-day energy consumption. It consists of a home energy diagnosis that enables the advisor to report energy consumption and draw up a list of recommendations of behaviour changes	<p>Target reduction of CO2 emissions (1 ton per household per year) and energy consumption (10 to 20%) per household followed through behavioural changes, replacement and/or reconditioning of energy systems, appliances, regulation systems, and building envelope. Communication activities to the public on the results of the project through the Eco n'Home website (http://www.econhome.net) that has a section to count CO2 saved and kWh savings.</p>
Financial and Support Instruments for Fuel Poverty in Social Housing (FINSH)	CrossNational	The aim of the project FinSH was to develop relevant support schemes to address financial and social barriers to access to energy efficiency retrofitting in social housing. It contributed to the reduction of fuel poverty and to the increase of energy saving in social housing in Europe. One key of the project is to combine financial, social and energy approaches.	<p>Financial products and related necessary social schemes to increase energy efficient retrofit in social housing</p> <p>Enhanced communication and networking between actors from various expertises: finance, social, energy.</p> <p>Increased information on existing financial possibilities to increase the use of energy efficient equipment and retrofit</p> <p>Contribution from the project to the increase of energy savings and CO2 reduction.</p>

European Network of Information Centres promoting Energy Sustainability and CO2 reduction among local COMmunities (ENESCOM)	CrossNational	ENESCOM aimed at enhancing the role of local communities in mitigating climate change by creating a common methodology to promote and develop capacity building in energy sustainability and for the adoption of sustainable energy policies. The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans. The project promoted integration, the institutionalization of energy efficiency and the uptake of RES through widespread information and dissemination activities. It also promoted and fostered adhesion to the Covenant of Mayors' initiative.	The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans.
European Solar Days II (ESD II)	CrossNational	The European Solar Days II project aimed at raising European consumers' awareness about the potential and benefits of intelligent energy solutions, especially for solar energy - solar thermal heating and cooling and photovoltaic electricity production.	The basic strategy of the concept was to mobilise citizens and different entities (municipalities, NGOs and others) to organise events dedicated to the sun as a source of energy and its use. The wide range of events drew the attention to the potential of solar energy and helped inform potential consumers on how they can apply solar energy in their homes.
FRESH	CrossNational	FRESH (Financing energy Refurbishment for Social Housing) was a project supported by the Intelligent Energy Europe programme that aimed at demonstrating to Social Housing Operators that Energy Performance Contract (EPC) can be used for low energy refurbishment of social housing on a large scale. FRESH partners identified pilot sites and worked out the legal, financial and technical framework for EPC's in social housing.	The main objective of this project was to test EPC in four countries (France, UK, Italy and Bulgaria) and to develop generic tools for the broader dissemination of EPC in social housings.

TRENDY TRAVEL; Emotions for sustainable transport (TRENDY TRAVEL)	CrossNational	More than 50% of all human decisions are emotional - often against rational awareness -, and most marketing campaigns for cars, which cover more than 90% of all marketing expenses for transport, target human emotions - exploiting this fact. This constitutes a formidable barrier for marketing and awareness campaigns for sustainable transport. Mere information about the positive consequences of the use of sustainable modes helps - but will not do. Public transport, cycling and walking should be associated with positive emotions like excitement, fun, being moved (in the heart), lust for life, pride and so on. This is the aim to be achieved with the emotional approach, as developed in the EMOTIONS project and now to be continued and expanded in TRENDY TRAVEL.	RENDY TRAVEL is designed to address current and potential users of clean urban transport, multipliers, practitioners and decision makers in public transport companies, energy agencies, educational institutions, municipalities and regions
Promotion of energy efficient appliances (PROMOTION 3E)	CrossNational	Promotion 3E aimed at reducing the energy consumption of households' electric equipments and products by implementing actions to encourage the take-up of energy-efficient appliances as well as measures that increase quality and efficiency of information available to the consumers	These measures have led to higher market share for the most energy-efficient household appliances and contributed to accelerate their market penetration.
SPIRIT - Energising Faith Communities (SPIRIT)	CrossNational	The project engaged faith based organisations in a programme that aimed to achieve measurable energy savings, CO2 emissions reduction and lasting behaviour change. There was limited experience of involving faith based networks in energy efficiency activities. Through SPIRIT, partners facilitated the mobilisation of these networks, by training and supporting members of faith communities to become volunteer Energy Champions, who delivered energy saving advice to fellow members of their communities.	Engaging faith based communities to raise awareness on energy efficiency Recruiting and training volunteer Energy Champions within these communities Organising advice sessions to share concrete energy saving solutions with interested households, helping them to reduce their energy consumption at home
Pattern of Energy Efficiency in the Schools (P.E.E.S.)	CrossNational	P.E.E.S. is an educational project which aims at energy awareness of students attending the secondary schools with a strong attention on the involvement of the teachers. In order to obtain significant changes in the behaviours of energy-system users and to encourage a sustainable use of the energy the simple dissemination of the knowledge is not sufficient	Contribution to the forming of a "energy consciousness" in the students involved in the educational programmes of the project, giving instruments, competences and skills of analysis and evaluation. Energy School Management in the pilot-schools. Promotion of the cooperation and of the cultural exchange

			among students and teachers of the six Countries including the practice of the foreign languages, and encouraging the exchange of different experiences.
Integration of Active Learning and Energy Monitoring with School Curriculum (ACTIVE LEARNING)	CrossNational	The project promoted active learning and energy monitoring as a tool for energy education among children aged 6-12 years the idea. The project aimed to change attitudes towards energy use among the future generation plus short- and long-term energy savings in school buildings and private households.	In order to ensure that energy efficiency, renewable energy and transport become a more permanent topic in primary school education the project tried to lay the basis for integration of active learning into the national curricula. Illustrative success stories are by far the best way to promote any topic. The project created forerunners by inviting at least 150 schools to test a toolbox of selected material, created especially for teachers for integration with KidsCorner.
Residential Monitoring to Decrease Energy Use and Carbon Emissions in Europe (REMODECE)	CrossNational	The project evaluated how much electricity could be saved by the use of the most efficient appliances and by the reduction of standby consumption. The research focused mainly new electronic loads such as: entertainment, information and communication technologies, stand-by consumption, lighting, as well as air conditioning in some southern countries.	Updated European database on residential consumption, including central and eastern European countries. Methodologies to combine the use of selective monitoring with wider-scale surveying. A software tool for evaluating energy performance in households. A set of policy recommendations for different types of equipment.
The Energy Path: an e-learning platform for education of the new generations in the sustainable energy field (ENERGY PATH)	CrossNational	Energy-Path develops the first innovative e-learning platform at European level, based on open source technology, containing didactic resources on RES, RUE, Transport and mobility which allows the online updating of the Web's contents and didactic material.	This Platform will sensitize and train the target audience in the involved countries, promoting the development of a new model of environmental education, affecting the changes of attitude, creating a conscience of individual and collective commitment with the acceptance

			and boost of the clean technologies and its good use.
European fuel Poverty and Energy Efficiency (EPEE)	CrossNational	Retrofitting of old buildings for low-income tenants with a focus on identifying the most effective measures for the national context and highlighting fuel poverty as a priority in policy; Qualify and Quantify energy poverty; Finding mechanisms to address climate change and reducing fuel poverty through retrofitting buildings	Evaluation of types of existing mechanisms (legislative, financial, technical, etc.), stakeholders, best practice; status in different countries.
EPORE - Energy Poverty Reduction in Eastern Europe	CrossNational	EPORE aims at supporting clearly defined groups of vulnerable consumers in tackling fuel poverty by facilitating more sustainable energy behavior and choices in their everyday life. It aims also at achieving structural changes of national policies to specifically address fuel poverty and include the transfer of best practices for the active engagement of vulnerable consumers.	1) creation of new working positions called "energy scanners", lower educated and long-term unemployed people trained to undertake an energy screening of the energy situation of a household, in which the household receive energy tips and energy saving devices, 2) guideline for addressing fuel poverty definition, condition and transfer of best practice (delivered to national policy-makers), 3) manual with tailored scheme of incentives in three specific selected region, 4) pilot actions in the three areas and condition/improvements monitoring after 12 months
Initiative State General of Energy Efficiency	National	ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) in collaboration with EfficiencyKNow. open platform where all the actors committed to a more rational and efficient use of energy can meet. In this sense the State General of Energy Efficiency wants to promote a network, shared on the web and at the local level for thematic meetings, studies, publications, workshops, conferences and public consultations. The theme of the consultation is the synergy between energy efficiency and behavioral change. It is a national and international consultation which targets Universities and technological innovation.	to contribute to the promotion of energy efficiency, through a simplification of the regulatory frameworks and the adoption of financing mechanisms, innovative communication strategies and training.
Energia positiva	National	Energia positiva is a cooperative of physical persons (members) who share the ownership of the installations (renewable energy production units). The members own their	The aim is to offer to anybody the possibility to produce and use renewable energy, to reduce

		»virtual« installations, which they choose.	member's energy bills and to contribute to sustainable future. Through the innovative web platform members can choose and subscribe quotas from a real photovoltaic, wind or hydro installation. In this manner the member as a co-owner, can produce their »own« clean energy and save directly on energy expenses (electricity and/or heating).
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LATVIA (LV – 27)

Name	Scale	Description	Objectives
European Citizens Climate Cup (ECCC)	CrossNational	Competition of householders to achieve the highest energy savings. The participating households use a web tool for their energy management – the interactive Energy Savings Account (ESA). ESA collects and assesses all consumption and cost data of meter readings and energy bills. Households also receive individualized emails and newsletters with tips on improving their energy efficiency.	Lowering electricity consumption and energy consumption for heating.
Creating liveable neighbourhoods while lowering transport energy consumption (PRO.MOTION)	CrossNational	The project addressed car dependency on three levels: 1. improving the objective conditions for a way of life that consumes less energy 2. changing people's perception and mobility behaviour, and 3. motivating people to live an energy saving life.	The objective was to change mobility behaviour by influencing people's travel decisions where the most important ones are made: at home. This was achieved by addressing three levels: • Improving conditions for sustainable modes • Changing perception and increasing awareness of sustainable modes • Encouraging people to adopt a less energy consuming lifestyle.
European Smart Metering Alliance (ESMA)	CrossNational	ESMA has defined and spread best practice in smart metering across European member states and sought to maximise the resulting energy savings. The project produced reports on key aspects of smart metering, a Best Practice Guide, a Financial Toolkit and Annual Report.	They make it possible for final customers to get more information about their energy usage. Trials have shown that this can reduce consumption. ESMA aimed to ensure that

			energy reduction will be maximised through the introduction of smart metering.
Common appliance policy – All for one, One for all – Energy Labels (COMEON LABELS)	CrossNational	Project collected, summarised and shared the best European experience related to the energy labelling of household appliances and applied the most effective supporting actions for the proper implementation of the new labelling scheme.	1. Understanding the legislation 2. Proper information on labels 3. Proper display of energy labels 4. Consumer awareness 5. Product replacement schemes
More biking in small and medium sized towns of Central and Eastern Europe by 2020 (MOBILE2020)	CrossNational	The goal of MOBILE2020 is to enable residents in small and medium cities to switch to biking as a mode of everyday transport. Good practice examples and national working groups on cycling foster a long-term development of cycling and contribute to keep expertise and exchange on a high level.	Improving stakeholder communication and networks in cycling planning; Capacity development and knowledge transfer; Enabling municipal planners and decision makers in the target countries; Spreading good practice and being a good example
EnergyNeighbourhoods 2	CrossNational	An energy saving competition between cities and citizens. Citizens are expected to save at least 9% energy in 4 month periods compared to the previous year. The approach combined training, consumption monitoring and local climate campaigns. Households were supported by specially trained "Energy Masters", volunteers that motivated, supervised monitoring and provided material, such as 'DIY energy audits'.	Reduce energy consumption in the housing without compromising the level of comfort.
ALTUM	National	ALTUM is a state-owned development & finance institution, which offers state aid for various target groups with the help of financial tools. The main goal of ALTUM is to improve energy efficiency in multi-apartment buildings.	ALTUM offers advice to the project beneficiaries; buildings or apartments' owners, approves energy audits and makes sure that the projects are in line with EU rules, construction law and bankable. ALTUM provides technical and financial assistance to the beneficiaries.
Using Ecological Construction Materials in New, Energy Efficient Buildings in the Baltic States	CrossNational	This project encourages energy saving and environmentally sound construction of buildings in the Baltic States through: 1) information gathering and demonstration; 2) training stakeholders; 3) educating consumers and 4) strengthening local capacities of experts with regard to the previously mentioned topics.	Aims to promote the application of ecologically sound construction, insulation and finishing materials in three Baltic states -Latvia, Estonia, Lithuania

Energy Exploitation and Performance Contracting for Low Income and Social Housing (ECOLISH)	CrossNational	A project promoting energy efficiency in low income and social housing by organising and evaluating pilot projects for refurbishing multi-residential buildings and single family dwellings with poor energy performance. Energy Performance Contracting combined limited financial investments from the occupants with third party financing.	Pilot projects resulting in improved indoor environment and health for occupants in combination with low energy costs.
Improving Dwellings by Enhancing Actions on Labelling of the EPBD (IDEAL EPBD)	CrossNational	The Energy Performance of Buildings Directive (EPBD) requires an energy performance certificate when a dwelling changes owner or tenant. Certificate includes recommendations of cost-effective energy saving measures. The project analysed consumer behaviour, barriers and supportive policy instruments, providing empirical evidence and monitoring by applying in-depth interviews and electronic questionnaires, and developed policy action plans to change consumer behaviour.	New insights into consumer behaviour to uncover the relationship between labelling and home improvements
Increasing Energy Efficiency in Multi-Apartment Buildings: EU programming period of 2014-2020	CrossNational	Increasing of EE in multi-apartment buildings is supported within the framework of the National Operational Programme 2014-2020 "Growth and Employment": Thematic Objective No4 "Supporting the shift towards a low carbon economy in all sectors", Specific Objective 4.2.1. "To increase energy efficiency in public and residential buildings".	Construction works for the increase of EE: renovation, reconstruction or establishment of multi-apartment buildings' engineering systems, installation of high efficiency heat production equipment and hot water production equipment which utilise renewables
Latvian Energy Efficiency Strategy for the years 2008 - 2010	National	Data base for pre-audit appraisal of energy efficiency in Riga apartment buildings: 3660 apartment buildings with central heating and 140 houses, where condominium is established. Appraisal of buildings and preparation of the digital maps of Riga districts.	Energy audits in multi-family houses, with goal to reduce average energy demand in buildings from 220 – 250 kWh/m ² /year to 150 kWh/m ² /year in 2020.
EuropeaN Efficient Residential Lighting INitiative (ENERLIN)	CrossNational	The consortium work has focussed on the better promotion of Compact Fluorescent Lamps for residential use. The overall project objective was to substantially increase the efficiency of indoor residential lighting through increased applying of CFLs in this sector.	increase the efficiency of residential lighting and the amount of CFLs in households by approximately 50%
Cycling Awareness Raising and MArketing (CARMA)	CrossNational	CARMA developed new methods for promoting cycling, focusing on selected target groups. Particular attention is given to areas where cycling infrastructure is insufficient. CARMA helps municipal authorities to focus their resources on those sections of the population that are willing to change their mobility behaviour.	changing travel behaviour in favour of cycling and increase knowledge and improve attractiveness of cycling (special focus on students and employees).

Personalised Travel Planning for Cycling (PTP-CYCLE)	CrossNational	<p>Project seeks to overcome the habitual use of the car, enabling more journeys to be made on bike, foot, or public transport as a cost effective way of reducing greenhouse gas emissions and urban congestion whilst improving health and economic development. This is achieved through the provision of information, incentives and motivations directly to individuals to support a voluntarily shift towards more sustainable choices. Individuals with the largest potential for behaviour change were targeted in residential areas, workplaces, universities and at public events.</p>	<p>Personalised Travel Planning provides tailored information directly to the individual on sustainable mobility options through a one-to-one discussion with a PTP adviser.</p>
Promoting Biogas in Eastern Europe - Mobilization of decision makers and training for farmers (BIG>EAST)	CrossNational	<p>BiG>East promotes biogas production and utilization as a secure, sustainable and competitive energy source. The most important activity targeting households were three biogas training courses for farmers (focusing on practical issues like calculations, biogas plant operation, plant components, technical parameters and problems) and two on-site visits to local biogas plants.</p>	<p>demonstrate technologies for producing and using biogas; show and train farmers how to use biogas for heat and electricity generation; promote public acceptance of biogas projects; ensure quality and viability of new biogas installations and collection of local experiences and know-how.</p>
Renovation Impact on Climate Change and Energy Efficiency Habits of Residents	National	<p>The lack of decision-making by apartment owners is one of the main obstacles why multi-family building renovation is not actively pursued in Latvia. The aim of the project was to motivate people to renovate their homes, so that they become comfortable, safe, sustainable and with the least possible impact on climate change. Project also developed specific recommendations to improve and facilitate the decision-making processes preceding the renovation of multifamily residential buildings (contracts between citizens and renovation service providers or implementers, necessary investments, expected results).</p>	<p>inform and motivate residents of multifamily buildings to renovate the buildings</p>

The SUNShINE (Save your bUildiNg by SavINg Energy)	National	Latvia's multifamily residential buildings rapidly deteriorate due to harsh weather and lack of proper maintenance (lack of awareness and technical knowledge, limited funding, reluctance for loan financing). Energy Performance Contracting (EPC) addresses these constraints, as it guarantees energy savings, and health, safety and affordability guarantees. The project has established a special fund for EPC, called Latvian Building Energy Efficiency Fund, which supports the investment in building renovation by purchasing the future receivables from energy service companies, allowing them to take new loans needed for further renovation projects.	motivate, inform and help stakeholders involved in renovation of multi-family buildings (several technical, economic and financial tools, templates for applications, contracts, protocols, reporting).
Accelerate SUNShINE: Save your bUildiNg by SavINg Energy. Begin to move more quickly	National	Continuation of SUNShINE project - four municipalities work together to establish a support scheme for the deep renovation of multifamily residential buildings based on Energy Performance Contracting (EPC). Re-financing is ensured by selling future receivables through a forfaiting transaction managed by the Latvian Baltic Energy Efficiency Facility, an investment fund forfaiting receivables from EPC	motivate, inform and help stakeholders involved in renovation of multi-family buildings
The campaign "Let's live warmer!" ("Dzīvo siltāk!")	National	A communication campaign developed to promote energy efficiency of buildings in Latvia. It was developed to inform people about the programme "Improvement of Heat Insulation of Multi-Apartment Residential Buildings," funded by the European Regional Development Fund. The campaign was launched due to low initial interest in the programme.	providing information on housing insulation issues (apartment house management; technological options; EU funding; benefits of insulation; construction quality standards and technologies)
E-mobility in Latvia for Climate Change Mitigation	National	The project „Promotion of e-mobility in Latvia for climate change mitigation” is a campaign aimed at popularising electric vehicles and electric bikes. Municipalities received practical handbooks and training possibilities, citizens could take a test ride on e-bike and find out why electric vehicles are the best alternative.	consumer education and information activities; improving society's knowledge about e-mobility and promoting its development in Latvia.
A Blueprint for Empowering Residents and Revitalising Central Baltic Neighbourhoods (CADDIES)	CrossNational	CADDIES deployed tools to motivate residents to volunteer and collaborate in improving their own houses, blocks or neighbourhoods in sustainable ways. The final outcome are improved living conditions and more inclusive communities. The pilot activities in each neighbourhood served as a valuable test of the project's concepts, methods and tools.	improving living conditions and enhancing inclusion of people living in urban neighbourhoods in a sustainable way.

Building Energy Audits	National	The housing stock in Latvia has a significant potential for energy savings, but implementation of energy efficiency projects is slow and complicated. The Construction, Energy and Housing State Agency tried to stimulate this process by providing grant for carrying out a set of energy audits of the buildings, which is a prerequisite for the building renovation. Households also received information about energy efficiency in buildings.	motivate residents to renovate and insulate their buildings
Energy management in residential buildings in Madona city	Local	Each month Madona city council in cooperation with Madona District Heating Company "Madonas Siltums" is publishing the data on specific heat energy consumption (kWh/m2) in each consumer building. Thus inhabitants are able to compare their building's energy consumption with other buildings and are motivated to change their behaviour and implement energy efficiency measures.	changing heating practices and lowering heat consumption
Latvian Volunteers for Energy Efficiency	Regional	Trained volunteers in three Latvian cities visited multi-family buildings and used specially adapted carpentry tools and silicon strips for window and door weather-stripping. This resulted in average energy savings of 10–20% (depending on the building). Weather-stripping increased temperatures and comfort levels of residents, and reduced noise and dust from outside. During the pilot project, one multi-family building in each of the three towns was weather-stripped.	lowering energy consumption for heating, increasing comfort
Top quality energy efficient lighting for the domestic sector (PREMIUMLIGHT)	CrossNational	The central objective of the PremiumLight project is to facilitate the transition to efficient high quality lighting solutions in households by motivating consumers to buy and use high quality energy efficient lighting products.	Increasing the take up of highly efficient LED light bulbs through best-practice advice to consumers
EPORE - Energy Poverty Reduction in Eastern Europe	CrossNational	EPORE aims at supporting clearly defined groups of vulnerable consumers in tackling fuel poverty by facilitating more sustainable energy behavior and choices in their everyday life. It aims also at achieving structural changes of national policies to specifically address fuel poverty and include the transfer of best practices for the active engagement of vulnerable consumers.	1) creation of new working positions called "energy scanners", lower educated and long-term unemployed people trained to undertake an energy screening of the energy situation of a household, in which the household receive energy tips and energy saving devices, 2) guideline for addressing fuel poverty definition, condition and transfer of best practice (delivered to national policy-

			makers), 3) manual with tailored scheme of incentives in three specific selected region, 4) pilot actions in the three areas and condition/improvements monitoring after 12 months
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LITUANIA (LT – 19)

Name	Scale	Description	Objectives
EEPLIANT : Energy Efficiency Compliant Products 2014	CrossNational	The project strengthens market surveillance and monitoring, verification and enforcement of ecodesign and energy labelling requirements across the European Single Market.	Greater compliance with Energy Labelling and Ecodesign Directives due to increased market surveillance of products; Increased awareness of users
SAVES2 : Students Achieving Valuable Energy Savings 2	CrossNational	Promoting sustainable energy behaviours among university students living in university accommodation and in rented private housing.	raise awareness of how students can save energy in a fun way; feedback and encouragement of energy-saving action.
TOPTEN ACT: Enabling consumer action towards top energy-efficient products	CrossNational	a comprehensive market transformation strategy targeting consumers and other actors to help them embrace and promote energy-efficient products.	more transparent markets, media report on top efficient products, change of consumers' using and purchasing behaviour.
enCOMPASS : Collaborative Recommendations and Adaptive Control for Personalised Energy Saving	CrossNational	Project implements an integrated socio-technical approach to behavioural change for energy saving, by developing innovative user-friendly digital tools to make energy consumption data available and understandable for different stakeholders, empowering them to achieve energy savings and manage their needs in energy efficient, cost-effective and comfortable ways.	smart sensors, user-generated information and context-aware collaborative recommendations for energy saving, intelligent control and adaptive gamified incentives.
Energy-Conscious HOuseholds in ACTION (ECHO ACTION)	CrossNational	ECHO ACTION aimed at active and voluntary involvement of families, local economic actors and financial institutes in implementation of local energy plans. This goal was achieved by dividing families into thematic working groups.	to shift the "demand side" of families towards more responsible energy use.; to organise companies and financial institutes to provide relevant services and products to the families.

Instigating Simple Energy Efficient Behavioural Practices in Schools (FLICK THE SWITCH)	CrossNational	Energy efficiency awareness and behaviour changing campaign for primary and secondary schools with objective to influence the behaviour patterns of children and youth by motivating them to be responsible and sustainable in the use of energy.	Flick the Switch Campaign website stimulates the interest of European kids, teens, teachers, parents, to lower their energy consumption.
More biking in small and medium sized towns of Central and Eastern Europe by 2020 (MOBILE2020)	CrossNational	The goal of MOBILE2020 is to enable residents in small and medium cities to switch to biking as a mode of everyday transport. Good practice examples and national working groups on cycling foster a long-term development of cycling and contribute to keep expertise and exchange on a high level.	Improving stakeholder communication and networks in cycling planning; Capacity development and knowledge transfer; Enabling municipal planners and decision makers in the target countries; Spreading good practice and being a good example
TRENDY TRAVEL; Emotions for sustainable transport (TRENDY TRAVEL)	CrossNational	Project uses emotional approach to promote public transport, cycling and walking as alternatives to car travel.	To show how sustainable travel can be made more attractive by appealing to and promising to satisfy people's emotional needs, with ensuing energy savings, emissions reductions and cost savings.
From Estonia till Croatia: Intelligent Energy Saving Measures for Municipal housing in Central and Eastern European Countries (INTENSE)	CrossNational	INTENSE aims at transferring intelligent energy saving measures for municipal housing from "old" EU Member States to "new" Member States and Accession countries in Central and Eastern Europe.	Developed public awareness raising strategy and public information toolkits for municipalities for guiding of consumption patterns of inhabitants towards energy saving measures in buildings in Central and Eastern European Countries.
SAVES (Students Achieving Valuable Energy Savings)	CrossNational	The project supports students in minimising their carbon footprint in their accommodation, promotes energy efficiency, and contributes to installing enduring good sustainability habits. It also highlights the significant benefits of smart meters for students.	reducing students' energy usage as well as their exposure to fuel poverty, saving quantifiable amounts of energy in student dormitories through energy saving behaviours (4.23 GWh); developing pro-environmental behaviours and energy-saving habits by students in higher education;

"Modernization of multi-Apartment buildings" scheme	National	Apartment buildings in Lithuania use much more energy for heating than in most EU states. The renovation programme aimed at lowering energy consumption in buildings was introduced, including: renovated and modernised heating systems, roof structures, windows and doors.	to increase the efficiency of energy consumption in buildings by 30%; to improve building conditions; to prolong buildings' life cycles; to enhance behavioural change of energy consumers.
Taupukas residential awareness campaign	National	"Taupukas" was developed and implemented to raise awareness of energy saving issues in the residential sector. An advertisement campaign was implemented, revealing the benefits of energy and water reservoir saving.	Increased efficiency of energy consumption in the residential sector; Raised awareness of end users regarding energy consumption; Demonstration of outside and inside benefits of energy saving.
Lithuania Energy Efficiency Housing Pilot Project	National	It is among the first projects financed by the World Bank to address the challenge of energy efficiency improvement in multifamily residential buildings and to provide funding through a credit line for homeowners and HOAs.	The project aims to: - support and enable private initiatives to improve residential energy efficiency; - support public initiative in improving energy efficiency in schools.
Programmes for the development of municipal problem areas for 2011-2013	National	The programmes contribute to improving energy efficiency of multi-apartment buildings and renovation of social housing in multi-apartment buildings undergoing renovation.	To renovate multi-apartment buildings and develop social housing; To develop the residential infrastructure in rural areas in an integrated manner; To promote community initiatives of the population.
Programme for Ignalina "Energy efficiency improvement in buildings"	National	Energy efficiency measures aimed at modernizing the multi-apartment and public buildings by improving their energy efficiency characteristics. Activities such as repair and/or reconstruction of the external envelope of buildings and upgrading and/or reconstruction of public building energy systems by improving their energy characteristics.	The main aim of the programme was to improve energy efficiency in multi-apartment residential buildings.
BUILD2LC (Boosting low carbon innovative building rehabilitation in European Regions)	CrossNational	Project focuses on the topic of energy efficient construction and rehabilitation of buildings.	Aims to promote innovative energy rehabilitation of buildings to reduce energy consumption and consolidate a market of specialized companies linked to this sector.

A Transnational Nordic Smart City Living Lab Pilot	CrossNational	The project focuses on energy saving solutions for individual households - inside houses and in transportation. The project aims to use existing knowledge on user-driven innovation methodologies and available technical solutions among partner networks.	increase the knowledge of Living Lab key characteristics and their indicators; innovate on technical energy solutions that are tested in real life settings; create higher visibility and innovation capacity among Nordic Living Lab actors and their partners and stakeholders by cross-border collaboration; share Living Lab knowledge and development of joint Living Lab resources
Integration of Active Learning and Energy Monitoring with School Curriculum (ACTIVE LEARNING)	CrossNational	The project promoted active learning and energy monitoring as a tool for energy education among children aged 6-12 years the idea. The project aimed to change attitudes towards energy use among the future generation plus short- and long-term energy savings in school buildings and private households.	In order to ensure that energy efficiency, renewable energy and transport become a more permanent topic in primary school education the project tried to lay the basis for integration of active learning into the national curricula. Illustrative success stories are by far the best way to promote any topic. The project created forerunners by inviting at least 150 schools to test a toolbox of selected material, created especially for teachers for integration with KidsCorner.
EPORE - Energy Poverty Reduction in Eastern Europe	CrossNational	EPORE aims at supporting clearly defined groups of vulnerable consumers in tackling fuel poverty by facilitating more sustainable energy behavior and choices in their everyday life. It aims also at achieving structural changes of national policies to specifically address fuel poverty and include the transfer of best practices for the active engagement of vulnerable consumers.	1) creation of new working positions called "energy scanners", lower educated and long-term unemployed people trained to undertake an energy screening of the energy situation of a household, in which the household receive energy tips and energy saving devices, 2) guideline for addressing fuel poverty definition, condition and transfer of best practice (delivered to national policy-makers), 3) manual with tailored scheme of incentives in three specific selected regions, 4) pilot

			actions in the three areas and condition/improvements monitoring after 12 months
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LUXEMBURG (LU – 11)

Name	Scale	Description	Objectives
e-passport	National	<p>The e-passport is a seal of approval for the energy efficiency of your house or apartment similar to the classification used to rate the energy efficiency of white goods.</p> <p>The aim of the energy pass is to offer potential buyers as well as home owners a tool which allows them to compare buildings' energy efficiency. The energy passport, which is also called the energy performance certificate, clearly indicates a structure's energy requirements, thus enabling consumers without specific knowledge to easily and quickly rate a building's energy efficiency.</p>	<p>Primary energy requirements (energy efficiency rating) This comprises the energy required to heat the building and to produce hot water (this includes the energy efficiency of the heating system) and takes into account the extra energy required during the exploitation process (production, extraction, transport, etc) of the energy itself (which in most cases is electricity).</p> <p>Thermal heat requirements (thermal insulation rating) This takes into account the quantity of heat this is required to uphold the temperature inside the building at the desired level.</p> <p>Annual CO2 emissions (environmental impact rating) This shows the quantity of gas which is harmful to the environment that is set free during the combustion of fossil fuels. This takes into account carbon dioxide (C=2) as well as other harmful gases like methane, cfc,...) which are produced during the exploitation, transformation and transport of the energy used in the building.</p> <p>The less gas is emitted, the better its eco-audit.</p>

TM EnerCoop	National	<p>The first energy cooperative in the South of Luxembourg.</p> <p>The TM EnerCoop Co-operative was developed as part of the Transition Minett Citizen Initiative. TM EnerCoop becomes a local producer of green energy, with four green energy projects (photovoltaic): one in Esch-Lallange, Kayl-Tétange, Bettembourg and Schifflange.</p>	<p>The four photovoltaic installations will produce on average 26,000 kWh of electrical energy per year each. This is equivalent to about 600 households consuming for one year to do their laundry or plug in a fridge. In the interest of a regional approach, solar panels of German origin were chosen.</p>
Assistance aux ménages en précarité énergétique (Assistance to households in energy precariousness)	National	<p>The "Assistance to households in energy precariousness" program aims to provide better support for low-income households and those living in precarious situations.</p> <p>Households which do not have sufficient means to heat their housing and / or can not pay their electricity, gas, water and heating bills for lack of financial means in the last 12 months.</p> <p>These households have the opportunity to benefit from a customized myenergy energy advice and a subsidy for the replacement of one or more energy-consuming appliances (refrigerator, freezer, dishwasher, washing machine).</p>	<p>This new service aims to inform and sensitize households (selected by social welfare offices) and to improve the situation and quality of life of households in difficulty. Reduce the consumption and energy costs of the households in question; Reduce the dependence of households on social services.</p>
EcoPrêt (ecoloan)	National	<p>EcoPrêt was specifically designed to support and facilitate the financing of your ecologically responsible movable property and real estate projects. Furthermore, EcoPrêt helps finance the purchase of zero-emission vehicles, such as electric and hydrogen cars.</p>	<p>Energy improvements for constructed housing (subsidies concern construction aspects for the house's heat insulation and controlled mechanical ventilation)</p> <p>Technical installations to enhance renewable energy sources (solar heat insulation, solar panel insulation, heat pump, wood-fired boiler, heat grid and connections).</p>
TOPTEN ACT : Enabling consumer action towards top energy-efficient products	CrossNational	<p>TOPTEN ACT develops a comprehensive market transformation strategy targeting consumers, manufacturers, retailers, large buyers, consumer associations and other key actors in 16 European countries, covering a combined population of 447 Mio inhabitants. It works with these actors to help them embrace and promote energy-efficient products, so that they become the natural choice for consumers.</p>	<p>TOPTEN ACT impacts are both quantitative —savings of 331 GWh/year triggered per million € invested— and qualitative: markets are more transparent, media report on top efficient products, multipliers relay the Topten message to their target groups, consumers change their</p>

			using and purchasing behaviour, retailers change their range and highlight BAT products, manufacturers shift their production lines.
« Energiesparen macht Schule »	Local	Extended over a five-year period, it aims to reduce school water and energy consumption by promoting a change in habits. Various seminars and training sessions were organized to provide teachers with basic knowledge and practical examples and to present the various savings measures. This knowledge is inculcated to the pupils according to different playful and experimental methods.	Establishments were also inspected, in collaboration with the consulting firms, to identify potential large consumers. The adaptation of the heating system has already made it possible to considerably reduce heat losses.
Luxmobil	National	On February 28, François Bausch, Minister of Sustainable Development and Infrastructure, the new comprehensive mobility survey, which starts in early March with the inhabitants of Luxembourg and the frontier workers presented.	In order to allow the state to adapt its supply of transport infrastructure and public transport to the growing demand, a new budgetary survey is being carried out, involving a large number of statistically representative households, and asked to describe their mobility behavior on a given date in detail.
mLive – synchronising mobility	National	This project is essential to the proper functioning of multimodality and fundamental in the individual planning of mobility chains. Before traveling, the citizen inquires about his transportation possibilities. The information that comes out of mLive allows him to plan a part of his journey: schedules in real time before his journey on the site www.mobilitet.lu	Encourage householders to dont use their cars
Den Trollmops ass mobi	National	The game "Den Trollmops ass mobil" allows to discover in a fun way the advantages and the disadvantages of the various means of transport while emphasizing the importance of the multimodal approach in the displacement. It will be distributed to the relay houses of the country, with kind permission from the Ministry of the Family.	Introduce children to the utility of using public transport
Vél'OK	Local	In close collaboration with the communes of the South Differdange, Dudelange, Esch-sur-Alzette, Rumelange, Sanem and Schifflange, the municipality of Bettembourg took the initiative to introduce "Vél'Ok" Self-service, electric bicycles that the respective inhabitants will enjoy free of charge from autumn 2015.	Encourage householders to dont use their cars

Energyhesper	Local	On the Internet (in German and French), which is based on the CO2-online energy savings account, which was developed in collaboration with SenerCon / Berlin, is adapted to the needs of our municipality.	The stated objective of the program is multiple: citizens have a better insight into their energy consumption (most know roughly how much energy costs, but they are not aware of how many kWh are consumed); Comparison with other households gives an initial estimate, the tool then makes it possible to export the data for professional evaluation purposes and the municipality regularly receives statistics allowing it to develop programs (for the economy of Eg energy) that meet the needs and expectations of citizens.
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MALTA (MT – 15)

Name	Scale	Description	Objectives
European Citizens Climate Cup (ECCC)	CrossNational	ECCC is a competition of householders within and between countries with the target to achieve the highest energy savings. The participating households use a web tool for their energy management – the interactive Energy Savings Account (ESA). ESA collects and assesses all consumption and cost data of meter readings and energy bills. Households also receive individualized emails and newsletters with tips on improving their energy efficiency.	Lowering electricity consumption and energy consumption for heating.
ELIH MED - A EURO-MEDITERRANEAN PROGRAM TO FIGHT ENERGY POVERTY	CrossNational	The project aims to carry out 10 pilot energy retrofit projects in 5 countries in the Mediterranean area of the European Union with the support of European funds, testing innovative funding mechanisms and comprehensive approaches integrating the occupants. 405 households spread into partner territories: 110 in Spain and Greece, 95 in Italy, 35 in Malta, 30 in France, 25 in Cyprus	The final target of the project is low-income households, which typically occupy low-energy efficient housing and can not afford energy-efficient renovations that would allow them to Better comfort.

EEPLIANT : Energy Efficiency Complaint Products 2014	CrossNational	<p>The objective of EEPLIANT 2014 (Energy Efficiency Compliant Products 2014) is to help deliver the intended economic and environmental benefits of the Ecodesign Directive 2009/125/EC and the Energy Labelling Directive 2010/30/EU by strengthening market surveillance and increasing compliance with the Directives and the relevant implementing measures.-Implementing systems that coordinate, in the most cost-effective manner, the monitoring, verification and enforcement of ecodesign and energy labelling requirements across the European Single Market;</p> <p>-Increasing the adoption of best practice amongst Market Surveillance Authorities (MSAs)</p>	<ul style="list-style-type: none"> -Adoption by Member States of best practices on how to conduct market surveillance most effectively. -Greater compliance due to increased market surveillance of products in the EEA with the Implementing Measures of the Energy Labelling and Ecodesign Directives. -Increased awareness of (and respect for) market surveillance by industry and amongst users. -Market surveillance being undertaken in a more cost effective and consistent manner across the EEA with an overall greater impact in the product sectors investigated.
Smart-up project	CrossNational	A consortium led by Alphéeis, was selected by the H2020 program, it helps vulnerable households in 4 countries (Fr, IT, ES, UK), to use their Communicating counter to improve their energy saving. They are training formers, that they meet this vulnerable households show them how to reduce their comsumption.	Helping the Housolders to change their patterns to use New counters smarter.
Instigating Simple Energy Efficient Behavioural Practices in Schools (FLICK THE SWITCH)	CrossNational	The objective was to influence the behaviour patterns of EU children and youth by motivating them to embrace the need for being responsible and sustainable in the use of energy. To achieve this, an EU-wide energy efficiency awareness and behaviour changing campaign for primary and secondary schools	A dynamic, interactive and highly relevant Flick the Switch Campaign website has been designed, built and launched on the internet to stimulate the interest of European kids, teens, teachers, parents, education boards, government authorities, energy stakeholders, energy experts, media, etc.
Common appliance policy – All for one, One for all – Energy Labels (COMEON LABELS)	CrossNational	The ComeOn Labels project aimed at collecting, summarising and sharing the best European experience related to the energy labelling of household appliances and defining and applying the most effective supporting actions for the proper implementation of the new labelling scheme.	<ol style="list-style-type: none"> 1. Understanding the legislation 2. Proper information on labels 3. Proper display of energy labels 4. Consumer awareness 5. Product replacement schemes

European Network of Information Centres promoting Energy Sustainability and CO2 reduction among local COMmunities (ENESCOM)	CrossNational	ENESCOM aimed at enhancing the role of local communities in mitigating climate change by creating a common methodology to promote and develop capacity building in energy sustainability and for the adoption of sustainable energy policies. The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans. The project promoted integration, the institutionalization of energy efficiency and the uptake of RES through widespread information and dissemination activities. It also promoted and fostered adhesion to the Covenant of Mayors' initiative.	The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans.
Eco Gozo	Local	Eco-Gozo is a concept which summarises Government's vision for the future of this island. It is a vision which aims at transforming Gozo and Gozitan society into a sustainable reality in its wider sense – not only environmentally, but also socially and economically. Gozo will become an eco-island by 2020, supported by a keen and committed sustainable community.	<ul style="list-style-type: none"> · A better quality of life · A society exerting less pressure on the environment · A wholesome natural and cultural environment · More sustainable jobs · A caring society for all · More quality investment · An enhancement of the island's identity
energycalculator from enemalta	National	The Energy calculator shows how much you can save and also gives you a clear indication of your carbon footprint. Enter the quantity, power, and usage frequency of the relevant appliances used, and it will estimate the energy consumed in a year. The Eco Calculator is already packed with various appliances found in homes, for ease of use, with the final report giving the user several tips on how to save energy.	Helping the Housolders to monitor their consumption and saving energy
DAWL – Energy, Employment, Empowerment.	National	<p>The aim of the project is to increase the employability of women who have been out of the labour market for a number of years by providing life learning through hands-on training and development approach to unemployed women</p> <p>The project also aims to demonstrate cost-effective measures which low-income households can take to lower their monthly water and electricity expenditure resulting in savings in energy and water consumption at household level and to raise awareness regarding energy and water issues.</p>	One of the objectives is to increase the female participation rate in the labour market by improving the opportunities for women to work. This pilot project will provide the blue print for setting up of a medium enterprise which will provide part-time, flexible hours employment for women as trainers/ information disseminators in the field of energy and water saving.

EkoSkola	CrossNational	EkoSkola, run by Nature Trust Malta is a programme for all schools helping them towards Education for Sustainable Development through a seven step process.	Step 1 Establishment of the Eco-Schools Committee Step 2 Environmental review Step 3 Action Plan Step 4 Monitoring and Evaluation Step 5 Curriculum Linking Step 6 Informing and involving the wider community Step 7 Eco Code
YAECl (Yearly Appliance Energy Cost Indication)	CrossNational	The main objective of the 'Energy Indictor' (YAECl) project was to provide customers with information at the point of sale on the yearly running cost of products with an EU energy label, in order to stimulate the uptake of affordable energy efficient products.	The European YAECl (Yearly Appliance Energy Cost Indication) project was successfully completed on 19th March 2015. Consumers, consumer associations and many of the retailers who participated in the project remain enthusiastic about this initiative to display the average annual running costs in euros on their price tags of appliances, both in shops and online in addition to the Energy label, which consumers often do not really understand.
energy efficiency program	National	The Ministry for Energy through the energy and water agency has embarked on an initiative to promote energy efficiency, use of renewables and water conservation in households.	This is being achieved by sending personalized flyers, inviting households to ask for an appointment for one of our staff to visit them. Our staff has been purposely trained to carry out such visits with a view to raise awareness amongst households.
European Sustainable Energy Award for Prisons (e-seap)	CrossNational	The E-seaP Awards are an EU funded initiative developed in the UK implemented in 2014 in 17 prisons across Europe. They offer the opportunity for prisons to be assessed, supported and rewarded upon the basis of all their efforts to address energy issues, not just on achieved savings. Successful establishments receive an internationally recognised award mark.	E-seaP uses a matrix method to review buildings and energy management, education and training, and community outreach support (to both staff and offender families who represent a fuel poverty risk group).

Xrobb I-Għażin	Local	Xrobb I-Għażin Nature Park and Sustainable Development Centre consists of over 155,000 square metres on a jutting peninsula with scenic views in the south east of Malta within the locality of Marsaxlokk.	The purpose of the project is education, demonstration and research in sustainable environment solutions with the overall objective of increasing the use of renewable energy, wastewater management and safeguarding biodiversity.
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NORWAY (NR/NO – 19)

Name	Scale	Description	Objectives
4RinEU : Robust and Reliable technology concepts and business models for triggering deep Renovation of Residential buildings in EU	CrossNational	<p>4RinEU will define robust, cost-effective, tailorable deep renovation technology packages supported by usable methodologies, feeding into reliable business models. The project will minimize failures in design and implementation, manage different stages of the deep renovation process, from the preliminary audit up to the end-of-life, and provide information on energy, comfort, users' impact, and investment performance.</p> <p>The 4RinEU deep renovation strategy is based on 3 pillars: (i) technology (driven by robustness) to decrease net primary energy use (60 to 70% compared to pre-renovation)</p>	<p>Technology: to reduce demand (Prefab Multifunctional Façade, Comfort Ceiling Fan), to improve energy efficiency (Plug&Play Energy Hub, Objective-based RES Implementation), to improve building operations (Sensible Building Data Handler), and to reduce construction waste (Strategies for Components End-Of-Life).</p> <p>Methodology: to accurately understand renovation issues and potentials (Cost-Optimal Energy Audit), to ensure an effective and participated design (Investor and Building User-Oriented Design Tool and Method based on BIM), to reduce construction time and failures (Deep Renovation Implementation Management).</p> <p>Business model: to identify the level of risk of renovation process and to enable well-founded investments supported by tailor-made financial tools (Cost-effectiveness Rating System)</p>

TOPTEN ACT : Enabling consumer action towards top energy-efficient products	CrossNational	TOPTEN ACT develops a comprehensive market transformation strategy targeting consumers, manufacturers, retailers, large buyers, consumer associations and other key actors in 16 European countries, covering a combined population of 447 Mio inhabitants. It works with these actors to help them embrace and promote energy-efficient products, so that they become the natural choice for consumers.	TOPTEN ACT impacts are both quantitative —savings of 331 GWh/year triggered per million € invested— and qualitative: markets are more transparent, media report on top efficient products, multipliers relay the Topten message to their target groups, consumers change their using and purchasing behaviour, retailers change their range and highlight BAT products, manufacturers shift their production lines.
Instigating Simple Energy Efficient Behavioural Practices in Schools (FLICK THE SWITCH)	CrossNational	The objective was to influence the behaviour patterns of EU children and youth by motivating them to embrace the need for being responsible and sustainable in the use of energy. To achieve this, an EU-wide energy efficiency awareness and behaviour changing campaign for primary and secondary schools	A dynamic, interactive and highly relevant Flick the Switch Campaign website has been designed, built and launched on the internet to stimulate the interest of European kids, teens, teachers, parents, education boards, government authorities, energy stakeholders, energy experts, media, etc.
European Smart Metering Alliance (ESMA)	CrossNational	ESMA has defined and spread best practice in smart metering across European member states and sought to maximise the resulting energy savings. The project produced reports on key aspects of smart metering, a Best Practice Guide, a Financial Toolkit and Annual Report.	They make it possible for final customers to get more information about their energy usage. Trials have shown that this can reduce consumption. ESMA aimed to ensure that energy reduction will be maximised through the introduction of smart metering.

European Solar Days II (ESD II)	CrossNational	The European Solar Days II project aimed at raising European consumers' awareness about the potential and benefits of intelligent energy solutions, especially for solar energy - solar thermal heating and cooling and photovoltaic electricity production.	The basic strategy of the concept was to mobilise citizens and different entities (municipalities, NGOs and others) to organise events dedicated to the sun as a source of energy and its use. The wide range of events drew the attention to the potential of solar energy and helped inform potential consumers on how they can apply solar energy in their homes.
Creating Actions among Energy Conscious Children (KIDS4FUTURE)	CrossNational	The Kids4Future consortium consists of 10 partners from a good mix of European countries. The project started in January 2007 and will last for three years targeting minimum 20 pilot schools in each partner country with a common energy story, TV, events and websites for children presented under one brand and common visual profile. At the core of the action are a common platform and one brand.	The platform is a universal energy story, which aims to bring in new dimensions and create understanding and enthusiasm for the energy subject, a sustainable future, and the global energy challenges. A strong brand will facilitate recall and strengthen recognition across channels, activities and countries. Pillars corresponding to children's own arenas support the platform: school, TV, event and web.
Evaluation of Energy Behavioural Change Programmes (BEHAVE)	CrossNational	BEHAVE aimed to enhance the performance of energy-related behaviour change programmes by adopting a rigorously scientific approach to evaluating a wide range of recent examples, and by developing an effective model for design, implementation and evaluation of this type of programmes for use by policy makers, programme designers/managers, and consumer organisations.	The evaluation covered 40 cases, selected out of an inventory of a 100 examples of various types of behaviour programmes, such as education, mass media campaigns, direct feedback, personal advice, community network approaches and innovative use of ICT tools. BEHAVE made theoretical insights explicit and facilitated learning from experiences. In doing so BEHAVE was not only contributing to better programme design and implementation in the

			future, but also to a better understanding of social and cultural influences on energy behaviour, through the analysis of impacts in different national settings.
Integration of Active Learning and Energy Monitoring with School Curriculum (ACTIVE LEARNING)	CrossNational	The project promoted active learning and energy monitoring as a tool for energy education among children aged 6-12 years the idea. The project aimed to change attitudes towards energy use among the future generation plus short- and long-term energy savings in school buildings and private households.	In order to ensure that energy efficiency, renewable energy and transport become a more permanent topic in primary school education the project tried to lay the basis for integration of active learning into the national curricula. Illustrative success stories are by far the best way to promote any topic. The project created forerunners by inviting at least 150 schools to test a toolbox of selected material, created especially for teachers for integration with KidsCorner.
Residential Monitoring to Decrease Energy Use and Carbon Emissions in Europe (REMODECE)	CrossNational	The project evaluated how much electricity could be saved by the use of the most efficient appliances and by the reduction of standby consumption. The research focused mainly new electronic loads such as: entertainment, information and communication technologies, stand-by consumption, lighting, as well as air conditioning in some southern countries.	Updated European database on residential consumption, including central and eastern European countries. Methodologies to combine the use of selective monitoring with wider-scale surveying. A software tool for evaluating energy performance in households. A set of policy recommendations for different types of equipment.
The Energy Path: an e-learning platform for education of the new generations in the sustainable energy field (ENERGY PATH)	CrossNational	Energy-Path develops the first innovative e-learning platform at European level, based on open source technology, containing didactic resources on RES, RUE, Transport and mobility which allows the online updating of the Web's contents and didactic material.	This Platform will sensitize and train the target audience in the involved countries, promoting the development of a new model of environmental education, affecting the changes of attitude, creating a conscience of individual and collective commitment with the acceptance and boost of the clean

			technologies and its good use.
TOGETHER on the move - Energy Efficient Transport training for immigrants (TOGETHER)	CrossNational	TOGETHER will develop and implement energy efficient transport training for immigrants. The training will focus on providing new immigrants with advice on energy efficiency in transport as well as providing them with essential skills in how to travel using sustainable modes.	This project aims to work with specific target groups and stakeholders to deliver tailor made training that seeks to enhance the quality of life of immigrants, to facilitate social inclusion as well as conserving essential energy resources for future generations. TOGETHER has a sharp focus on the community added value of setting up, implementing and promoting energy efficiency training and learning material for immigrants as most Member States are facing similar challenges.
Oljefri (oilfree)	National	In short the idea is that Naturvernforbundet initiate cooperation with municipalities in order to reach out to house owners with tailor made information about alternative heating. This include presenting a list of professional crafts men that can do the job (we approve them to have state of art competence and good references) and overlook the process from giving offer to installing solutions in the web portal). This is a process to make it easier and safer for house owners to do the investment.	aiming at phasing out fossil fuel in space heating
ZEB Pilot House	Local	Plus House Larvik is a pilot project on a family house out of the ordinary. By optimizing architectural qualities and technological solutions, the house serves both the living and energy needs of a family house, in addition to generating enough energy surpluses to power an electric car year-round.	The project describes a single family house, however, the building is primarily intended for use as a demonstration platform to facilitate learning. The Living Laboratory is a test facility that is occupied by real persons using the building as their home. The focus is on the occupants and their use of innovative building technologies like intelligent control of installations and equipment, interactive user interfaces and interplay with the energy system as a whole.

A Transnational Nordic Smart City Living Lab Pilot	CrossNational	The project will focus on energy saving solutions for individual households, in private houses and in transportation. In doing so, user needs and ideas will be the key-drivers. The project aims to use existing knowledge on user-driven innovation methodologies and available technical solutions among partner networks.	increase the knowledge of Living Lab key characteristics and their indicators innovate on technical energy solutions that are tested in real life settings create higher visibility and innovation capacity among Nordic Living Lab actors and their partners and stake-holders by cross-border collaboration, shared Living Lab knowledge and development of joint Living Lab resources
Klimaløftet – Norway's public support to act on CO2	National	The Campaign is run by the Norwegian Ministry of Environment and organised as a partnership with stakeholders from the NGOs, climate science- and research institutions, businesses and representative groups from civil society. The initiative organizes campaigns and supporting other initiatives from grass-root activities to films, websites among other, targeting schools and universities, small-and medium sized enterprises and the public in general.	Projects to schools / Program for small- and medium sized businesses / Public awareness activities: Mass-media campaigns on how to live CO2-smart and reduce the carbon footprint: Focus on how to save energy, travel smart and reduce the CO2-intensive consumption Redesign Inserts and magazines Website, Facebook and You tube, carbon calculator Supporting other events such as Earth Hour Lectures on climate change-from a pool of scientists
Terra Libera Økogrend project	Local	Three eco villages have been established in Norway. Terra Libera Økogrend and Gravdal Økolandsby are currently being develop and the third Økolandsbyen is already established and running successfully. They all have a common principle which is to build a community based around ideas of environmental sustainability and permaculture.	The purpose of the eco villages is also appreciation of natural aesthetics and social co-existence, moving away from the phenomena of isolated living that is developing in the modern society.

HURDALSJØEN ecovillage	Local	<p>The ecological village of Hurdalsjøen was established in 2002 and the first temporary houses were built in 2003. The group worked with experts in the fields of architecture, sanitation, agriculture, energy And with local authorities. This not only for housing planning, but also for a national training center, a nursery, a research and presentation center for renewable energies.</p>	<p>Create on-site businesses by encouraging local jobs, by developing activities such as a farm, a small grocery store, and a nursery.</p> <p>Minimize the ecological footprint of the village population (housing, food consumption, etc.).</p> <p>To target social inclusion and social democracy in the organization of activities in the village (cooperative decisions, democracy, consensus, inclusion).</p> <p>Be an example and inspire other similar initiatives.</p>
Energismart	National	<p>Energismart is a web-portal which gathers information about more efficient appliances, how to refurbish your home in order to use less energy (this part also includes the information about possible financial help) and offers energy consultancy in the form of "energy specialist".</p> <p>http://www.energismart.no/varme/category898.html</p>	<p>The objective of the webpage is to raise awareness about the energy savings of more efficient appliances. It also provides information for households and individuals about how to implement energy efficiency measures in their homes and how to best take advantage of different financial schemes for energy efficiency measures. The objective of this initiative is to spread awareness and offer information about energy efficiency measure in households and consequently lower the energy consumption of households in general.</p>
SUSTAINCO (Sustainable energy for rural communities)	CrossNational	<p>Projects supports the ambitious European vision for the energy performance of buildings. It aims to build capacity within the partner countries through a range of services including promotion of best practice examples, supporting integrated approaches to design and retrofitting of buildings.</p>	<p>Objectives: to raise awareness of, and support development of, low energy building projects, with special emphasis on rural areas.</p>

POLAND (PL – 32)

Name	Scale	Description	Objectives
USMART CONSUMER	CrossNational	Project helps households (tenants and owners) to save electric, gas or district heating energy through the improved information facilities of their smart meter, informing and involving them via user-friendly interface.	To promote the smart meter rollout and services to household sector (market activation and awareness campaigns) and lower energy consumption
Financial and Support Instruments for Fuel Poverty in Social Housing in Europe (FINSH)	CrossNational	FinSH programme assists the disadvantaged households to renovate their homes and obtain energy-saving appliances.	Improved energy effectiveness of households.
Energy Efficiency Compliant Products 2014 (EEPLIANT)	CrossNational	The objective of EEPLIANT 2014 is to increase the adoption of best practices and strengthen market surveillance and monitoring, verification and enforcement of ecodesign and energy labelling requirements across the European Single Market.	Greater compliance with Energy Labelling and Ecodesign Directives due to increased market surveillance of products; Increased awareness of users
STEP_BY_STEP	CrossNational	Targeted information and awareness campaign through email or by phone over a 20 month period, encouraging households to adopt energy-saving practices and try new ecological gestures adapted to their level of motivation. Feedback is given and social norms are used.	significant change of energy behaviour at home, including reduced electricity consumption and the investment in energy efficient products and/or high quality renewable energy products.
iBROAD : Individual Building (Renovation) Roadmaps	CrossNational	The iBROAD approach is an evolution of EPC and energy audit systems, aiming to become a real driver for renovation. The project will identify the elements, develop an integrated concept, and produce modular tools, suitable for differing national conditions.	providing knowledge and experience of deep renovation in individual buildings, increasing the renovation rate and depth across the EU.
2gether4vulnerability	CrossNational	'Market activation - policy orientation' project tackling fuel poverty and supporting vulnerable consumers by positively changing their behaviour in relation to energy consumption. Project is based on the conclusion of the "Energy Citizens' Forum", and combines activities that address both energy and social issues as fuel poverty cannot be tackled in isolation of the bigger issue of poverty,	target actions to address vulnerability/fuel poverty; solutions designed in collaboration with the target groups/end users to utilise the powerful effect of target group ownership of action

MOBISTYLE: MOtivating end-users Behavioral change by combined ICT based tools and modular Information services on energy use, indoor environment, health and lifestyle	CrossNational	Project raises consumer awareness and empowers them by providing attractive tailor-made combined knowledge services on energy use, indoor environment, health and lifestyle, by ICT-based solutions. This awareness will support and motivate end-users to well informed pro-active behavior towards energy use, energy efficiency and health.	provide understandable information to consumers on health and lifestyle in relation to energy use; motivate behavioral change of consumers/energy end-users; deploy and validate the developed solutions and services in different building types and user types, demonstrating a significant reduction of final energy use, prompted by these solutions.
Assessing the intangibles: The socioeconomic benefits of improving energy efficiency (IN-BEE)	CrossNational	IN-BEE addresses the theme of energy efficiency through a multi-disciplinary approach, combining methods, datasets, and techniques from cutting edge research in law and economics, humanities and consumer behavior, regulation and environmental sciences, as well as engineering.	Project studies relevant cases and identifies best practices and develops Key Performance Indicators to assess the impact of energy efficiency strategies
START2ACT	CrossNational	START2ACT aims to reduce residential energy consumption by changing behaviour of consumers in their everyday lives. The project aims at triggering action by young entrepreneurs and their emerging enterprises as well as by the owners and staff of young SMEs to introduce energy efficiency measures within their daily routines.	START2ACT will unleash the potential of energy savings at European start-ups and young SMEs via a set of innovative educational and capacity building measures.
TOPTEN ACT: Enabling consumer action towards top energy-efficient products	CrossNational	A comprehensive market transformation strategy targeting consumers and other actors to help them embrace and promote energy-efficient products.	more transparent markets, media report on top efficient products, change of consumers' using and purchasing behaviour.
Boosting efficiency in electricity use in 8 European regions (EL-EFF REGION)	CrossNational	The project boosts efficiency in electricity use, it analyses and tackles areas with specific growth rates by developing regional plans and implementing targeted promotion and dissemination activities.	action plans to boost electricity efficiency, motivating households and companies/institutions to participate in the "Minus 10% action"

European Young Energy Manager Championship (EYEMAN CHAMPIONSHIP)	CrossNational	The basic idea was to organise and execute a stimulating and motivating international competition for awarding the best European Young Energy Manager Team. The teams were challenged with a task of energy management in the places where they spend most of their time: schools and homes.	The championship started after an energy training of teachers and students and concluded with the EYE Manager Award which was won by the team obtaining the greatest economic savings. The project included a "peer to peer transfer": EYE-students trained other students concerning energy using products, energy saving behaviours and energy managerial criteria. EYE-teachers transferred the curricula and education tools and methods developed to their colleagues.
European Smart Metering Alliance (ESMA)	CrossNational	ESMA has defined and spread best practice in smart metering across European member states and sought to maximise the resulting energy savings. The project produced reports on key aspects of smart metering, a Best Practice Guide, a Financial Toolkit and Annual Report.	They make it possible for final customers to get more information about their energy usage. Trials have shown that this can reduce consumption. ESMA aimed to ensure that energy reduction will be maximised through the introduction of smart metering.
Common appliance policy – All for one, One for all – Energy Labels (COMEON LABELS)	CrossNational	The ComeOn Labels project aimed at collecting, summarising and sharing the best European experience related to the energy labelling of household appliances and defining and applying the most effective supporting actions for the proper implementation of the new labelling scheme.	1. Understanding the legislation 2. Proper information on labels 3. Proper display of energy labels 4. Consumer awareness 5. Product replacement schemes
European Network of Information Centres promoting Energy Sustainability and CO2 reduction among local COMmunities (ENESCOM)	CrossNational	ENESCOM aimed at enhancing the role of local communities in mitigating climate change by developing capacity building in energy sustainability and for the adoption of sustainable energy policies. The project promoted integration, the institutionalization of energy efficiency and the uptake of RES through widespread information and dissemination activities.	The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans.

European Solar Days II (ESD II)	CrossNational	The European Solar Days II project aimed at raising European consumers' awareness about the potential and benefits of intelligent energy solutions, especially for solar energy - solar thermal heating and cooling and photovoltaic electricity production.	The basic strategy of the concept was to mobilise citizens and different entities (municipalities, NGOs and others) to organise events promoting the use of solar energy and inform potential consumers on how they can apply solar energy in their homes.
Financial and Support Instruments for Fuel Poverty in Social Housing (FINSH)	CrossNational	The aim of the project FinSH was to develop relevant support schemes to address financial and social barriers to access to energy efficiency retrofitting in social housing. It contributed to the reduction of fuel poverty and to the increase of energy saving in social housing in Europe.	Financial products and related necessary social schemes to increase energy efficient retrofit in social housing Enhanced communication and networking between actors from various expertises: finance, social, energy. Increased information on existing financial possibilities to increase the use of energy efficient equipment and retrofit Contribution from the project to the increase of energy savings and CO2 reduction.
More biking in small and medium sized towns of Central and Eastern Europe by 2020 (MOBILE2020)	CrossNational	The goal was to increase the share of biking as a mode of everyday transport in small and medium cities. Good practice examples and guidelines were promoted proactively by a working group on cycling, triggering a change in mobility behaviour.	Change mobility behaviour through capacity development and knowledge transfer about good practices
Promotion of the Intelligent Combination of Sun and Wood for Producing Warm Water and Heating for Private Houses (ICOSAW)	CrossNational	Within the ICOSAW project, partners with crafts background from Germany, Poland, Sweden and Slovakia have joined forces to promote combining solar panels and the use of firewood is a promising way of heating smaller buildings in reliable ways.	to promote combining solar panels and the use of firewood as a promising way of heating smaller buildings in reliable ways.

Promotion of energy efficient appliances (PROMOTION 3E)	CrossNational	Promotion 3E aimed at reducing the energy consumption of households' electric equipments and products by implementing actions to encourage the take-up of energy-efficient appliances as well as measures that increase quality and efficiency of information available to the consumers	These measures have led to higher market share for the most energy-efficient household appliances and contributed to accelerate their market penetration.
SAVE@Work4Homes - Supporting European Housing Tenants in Optimising Resource Consumption (SAVE@WORK4HOMES)	CrossNational	The project aimed to help tenants improve their energy awareness by encouraging them to monitor consumption and by providing them with information including heating data and data analyses. Notebooks for property managers and a handbook for tenants were planned.	The project has designed and developed a set of Energy Awareness Services for their tenants and implemented them in six pilot sites managed by six social housing companies in Europe.
Local energy production in Kisielice	Local	Kisielice is an example of electricity self-sufficient town due to local renewable sources such as wind energy installations and biomass boiler that is fed with straw provided by local farmers. Since 2014 all electricity used in the town has been produced from renewable sources.	to reduce carbon dioxide emissions by abandoning dependence on coal and switching to producing renewable energy locally.
EPORE - Energy Poverty Reduction in Eastern Europe	CrossNational	EPORE aims at supporting groups of vulnerable consumers in tackling fuel poverty by facilitating more sustainable energy behavior and choices in their everyday life. It also includes a transfer of best practices for the active engagement of vulnerable consumers.	1) long-term unemployed people with lower education trained as "energy scanners" to evaluate the energy situation of a household and provide it with energy tips and energy saving devices, 2) guideline for addressing fuel poverty and transfer of best practice (for policy-makers), 3) pilot actions in three areas and monitoring after 12 months
Support for thermal refurbishment and renovations	National	Partial funding for thermal renovation of buildings. Applicants must undergo an energy audit and cover minimum energy consumption reduction levels and economical efficiency requirements. The amount of the funding equals 20% of the cost for the thermomodernization initiative. Remaining 80% are covered by personal funds or bank loan.	improving energy efficiency of buildings

Energy Saving in Schools - EURONET 50/50	CrossNational	Project aimed to unlock energy saving in schools by educating students and through them their families, in order to ensure that current and future generations consume energy responsibly. Students were encouraged to save energy through financial benefits - half of the saved amount was handed over for the purposes of the school.	lowering energy consumption in schools and at home
Installation of renewable energy systems in the public and residential buildings	National	A non-refundable foreign aid granted by Switzerland to Poland for installation of solar systems for residential buildings and energy efficiency improvement of public buildings through deep thermal modernization with use of heat pumps and photovoltaics. The result of the project is to save the electricity and thermal energy, increase of the energy produced from renewable sources and reduction of carbon dioxide.	saving electricity; increasing the share of energy produced from renewable sources
Removal of the low-stack emission in Miechow – the KAWKA project	Local	Numerous cities in Poland still use old and inefficient heating sources, such as coal-fired boilers. The project involves the replacement of old heating sources with new ecological heating solutions in residential buildings and housing communities, thereby increasing energy efficiency, reducing greenhouse gas emissions and decreasing the use of hazardous combustion products in the Miechow municipality.	changing the way people heat their homes; significantly decreasing pollutant emission, especially the PM10 and PM2.5 carbon dioxide reduction
Promotional packs on energy efficiency in the Lesser Poland Voivodship	Local	A campaign aimed at raising consumers' awareness of energy efficient solutions and their benefits. The organisers handed out promotional packs on energy efficiency to the local consumers. Each promotional pack contained two LED light bulbs, a radiator reflector screen, a faucet aerator for the sink or bathroom, a shower flow regulator, and an informational brochure. The effort was aimed at promoting individual energy efficiency in residential households.	educational campaign to motivate residents to implement simple energy efficient solutions in their households.
Implementation of air quality plan for Małopolska Region - Małopolska in a healthy atmosphere	Regional	Małopolska province struggles with very poor air quality, particularly during the winter season. The major source of air pollution are low-stack emissions (combustion of solid fuels in obsolete household boilers). Project has several objectives, among which some target households - increasing the low awareness about the need for air quality improvement through public education campaigns; encouraging inhabitants to apply for financial schemes (e.g. grants, soft loans) for the replacement of obsolete solid fuel boilers and thermal retrofitting of houses.	changing the way people heat their homes

Creating Actions among Energy Conscious Children (KIDS4FUTURE)	CrossNational	The Kids4Future consortium consists of 10 partners from a good mix of European countries. The project started in January 2007 and will last for three years targeting minimum 20 pilot schools in each partner country with a common energy story, TV, events and websites for children presented under one brand and common visual profile. At the core of the action are a common platform and one brand.	The platform is a universal energy story, which aims to bring in new dimensions and create understanding and enthusiasm for the energy subject, a sustainable future, and the global energy challenges. A strong brand will facilitate recall and strengthen recognition across channels, activities and countries. Pillars corresponding to children's own arenas support the platform: school, TV, event and web.
Integration of Active Learning and Energy Monitoring with School Curriculum (ACTIVE LEARNING)	CrossNational	The project promoted active learning and energy monitoring as a tool for energy education among children aged 6-12 years the idea. The project aimed to change attitudes towards energy use among the future generation plus short- and long-term energy savings in school buildings and private households.	In order to ensure that energy efficiency, renewable energy and transport become a more permanent topic in primary school education the project tried to lay the basis for integration of active learning into the national curricula. Illustrative success stories are by far the best way to promote any topic. The project created forerunners by inviting at least 150 schools to test a toolbox of selected material, created especially for teachers for integration with KidsCorner.
Implementation plan for BioEnergy Farm (BIOENERGY FARM) - an experimental agricultural biogas plant in Studzionka	CrossNational - local	Based on the information and business plan providing by project experts, a farmer built a biogas plant for utilization of significant amounts of chicken manure and pig slurry produced on his farm. The electricity and heat is used only for own needs of the biogas plant and the farm.	reducing the bio-waste from the farm and producing renewable energy

PORUGAL (PT – 31)

Name	Scale	Description	Objectives
CLEAR Consumers to Learn about, Engage with and Adopt Renewable energy technologies	CrossNational	CLEAR's objective is to lower market barriers to the purchase of RES, hence raising consumers capacity to take informed decisions. The result should be a significant uptake in the purchase of renewable energy solutions (RES) by European consumers and therefore an important contribution to the 2020 European targets	The aim of CLEAR - enabling Consumers to Learn about, Engage with and Adopt Renewable energy technologies - is to actively guide consumers through all the stages leading to the purchase of domestic renewable and low-carbon energy technologies. The main needs of a home, including heating/cooling, electricity and domestic hot water, are addressed through a consumer-centric approach and actions that are meant to lead to the purchase of renewable energy technologies such as solar photovoltaic, solar thermal, heat pumps and wood pellet stoves (for space heating).
About EnergizAIR The renewable energy weather forecast - Europe	CrossNational	EnergizAIR adds positive indicators about the part of the energy needs that were covered thanks to renewable energy sources in the weather forecast. To set up an operational "renewable energy weather forecast" tool in France, Italy, Portugal, Slovenia and Belgium that will be widely broadcasted (4 million people reached at least) on a weekly basis at first. What do we put in the weather forecast? Production data and energy needs covering indicators about three technologies: PV, solar thermal and wind turbines.	Actual broadcasting of the renewable energy weather forecast in 5 countries One European website and 5 local supporting websites Interactive tools linking renewable energy with rational energy use Training for the weather anchors A methodology to transfer the concept to other countries
Euro-Topten Act (Topten.pt)	CrossNational	the project started in 2007 as an on-line tool, which allows consumers to find the most efficient household machines on the portuguese market. The key criteria is energy efficiency, but they consider also the lifecycle, impact on health, on the environemnt and quality. The project is part of Horizon2020. In portugal it is run by Quercus and ADENE. www.topten.pt	the objective is to orient the consumer when choosing apliances we use daily. The tool aims to show that the consumer play an active role in combating climate change by reducing energy use (suggestions) and by using it efficiently.

iBROAD : Individual Building (Renovation) Roadmaps	CrossNational	The iBROAD approach is an evolution of EPC and energy audit systems, aiming to become a real driver for renovation. The project will analyse and build upon relevant examples in Germany, France and Flanders, to identify the elements, develop an integrated concept, and produce modular tools, suitable for differing national conditions.	iBROAD-Plan and iBROAD-Log are expected to empower energy auditors and end-users with knowledge and experience of deep renovation in individual buildings, and to provide public authorities with real-life studies and analysis supporting deep renovation, both for individual buildings and as a long-term national strategy, increasing the renovation rate and depth across the EU.
EcoCasa	National	The project started in 2004 and is focusing on environmental sensibilisation and education to reduce natural resource use. From energy efficiency it widened the specter to other everyday practices, from water use, sustainable mobility to sustainable consumption. The tools are on-line (simulations of use). www.ecocasa.pt	By defining the problems, showing alternatives and encouragement of changes in habits in everyday life, the project aims to reach the objective: to reduce the use of resources by the citizens in their everyday lives.
EcoConsumo	National	Project aims to reduce spending on water and energy in households by providing simple tools. The tools vary from behavioral change to small investments aimed to reduce consumption, which has a positive impact on family budget. www.ecocasa.pt	to reduce energy and water use in households by providing simple tools.
Conversas com Ambiente & EcoFamílias da Póvoa (conversations with the environment and EcoFamilies from Povoa)	Local	Awareness raising among the population of Povoa (municipality Vila Franca de Xira) by a series of events called Conversations with environment and shaping a group of families with applied measures (behavioural and technical) to decrease energy use.	The goal is to reduce resource use by: higher energy efficiency in households, promotion of solar panels, efficient water use, efficient recycling, promote sustainable consumption and raise awareness on the impact of our resource use.
Ecosave	Local	Evaluation of the ways citizens use home appliances in everyday life and the impact of rational and efficient use on energy bills and energy savings. The efficiency is not just technical, so the project went beyond technical characteristics and was focusing on the impact of changing habits in diminishing the energy consumed. A series of workshops on efficient use of home appliances in wider Lisbon.	The main objective was raising awareness among consumers on usage of appliances and promotion of decreasing consumption of electricity by rational use. Activities: simulator of behaviour, development of materials for distribution, awareness raising activities. One

			important goal was to develop innovative tools.
Ecofamilias	National	The goal of the program is to evaluate real capacities of families to lower energy use with concrete activities (energy efficiency of buildings) and by changed habits (promotion of rational use of energy). 3 phases: 1) 30 families from Lisboa, Oeiras e Sintra, 2005 to 2006; 2) 225 family units from Portugal, 2007; 3) 1000 families from Portugal, 2009-2011.	Changing energy consumption practices in families, decrease energy consumption. The quantifiable goal was to reduce energy consumption in families by 10% on average per family.
EcoFamílias - Água	Local	The project had its aim to change habits in water use, by direct interaction with families.	to change habits in relation to water use - to reduce water use
Ecological families from Oeiras	Local	Main goal was to change behaviour and raise awareness of families from Oeiras on the topics of energy, water, waste, mobility, gardening, sustainable consumption by working with families.	To change consumption habits
Planet Me°	Local	The aim is to reduce GHG emissions in the families of employees of TNT in Portugal along with some actions at the company level, by sensibilisation of employees and their families in the fields of environmental performance (consumption, mobility and waste).	Specific goal is to reduce GHG by 10%. Another aim is to increase a sense of ownership of corporate social and environmental responsibility standards set by the company. The aim was achieved by sensibilisation of employees and their families to change their habits in the field of consumption.
EcoBrigadas	National	Sensibilisation and informing citizens on three topics: energy efficiency, renewables, sustainable construction. The goal was to reduce consumption of energy. Another goal is to make the link between energy use and global warming and reduced energy use as a way to contribute to prevention of climate change. By training, campaigning and direct interaction.	informing about efficiency and reduced energy use, renewables and microgeneration, architecture and construction solutions; identification of savings potential and effectively reduce the consumption in stand by and off mode; make plans with families linked to energy providers, promote and inform schools on energy efficiency and renewables (schools as demonstration of application of practices and multipliers).

Energy, Education, Governance and Schools. A European school panel for involving local communities in energy efficiency programs (EGS)	CrossNational	The main actor contributing to involve a whole community and at the same time training the younger generations is the school. The project developed an actual framework for the implementation of energy efficiency at school including a manifesto and courses for schools staff and for students. The core aim of the project was focussing on the involvement of local actors in 4 processes: educational programmes, teachers training, involvement of the local productive sector and governance.	To enhance the key role of high schools in the involvement of local stakeholders (students, families, small and medium enterprises, local authorities, other schools) in the process of improving the energy efficiency and literacy of their communities.
Coopernico	National	Coopernico is a renewables cooperative, which gives support to solidarity, educational and environmental protection projects.	The goal is to develop a renewables model, just and responsible, which contributes to a socially, environmentally and energy sustainable suture. To include citizens and companies in creation of a new energy paradigm – renewable and decentralised – with benefits for the society and environment.
Energy-Conscious HOrseholds in ACTION (ECHO ACTION)	CrossNational	ECHO ACTION aimed at creating a model of active and voluntary involvement of families, local economic actors and financial institutes, co-ordinated by the local energy agency, who will contribute towards the implementation of local energy plans. This goal was achieved by dividing families into thematic working groups.	On one side it addressed families as final users to shift the "demand side" towards more responsible energy use. On the other side it aimed to organise companies and financial institutes to provide relevant services and products to the families.
ENERGY SELF SUPPLY IN RURAL COMMUNITIES (ENSRC)	CrossNational	The Energy Self-Supply in Rural Communities (ENSRC) project established rural self-supply energy co-operatives or networks in each of the four countries participating in the project (Ireland, Wales, Portugal and Bulgaria). The project partners identified the barriers and incentives that exist for the development of rural self supply energy cooperatives as well as undertook a feasibility study and a development plan for each cooperative.	ENSRC contributed to increasing the use of locally available sustainable energy in rural areas and ensured a long-term dissemination of its actions via the production of a well-made manual. Renewable energy facilities were also promoted and if not installed yet everywhere, at least planned.

European Young Energy Manager Championship (EYEMAN CHAMPIONSHIP)	CrossNational	The basic idea was to organise and execute a stimulating and motivating international competition for awarding the best European Young Energy Manager Team. The teams were challenged with a task of energy management in the places where they spend most of their time: schools and homes.	The championship started after an energy training of teachers and students and concluded with the EYE Manager Award which was won by the team obtaining the greatest economic savings. The project included a "peer to peer transfer": EYE-students trained other students concerning energy using products, energy saving behaviours and energy managerial criteria. EYE-teachers transferred the curricula and education tools and methods developed to their colleagues.
Ecocomunidades (eco communities)		IN the period of 3 years different initiatives will be developed through on-going interaction. The families/citizens involved will be connected into eco communities to create low carbon life styles (think globally, act locally), which will follow by a replicable local strategy, applicable also to the national level.	To elaborate and test a low carbon strategy, by testing it in small local communities – designed and run by eco communities, on the level of municipalities or intermunicipal communities. The intent is to make it replicable to the whole society, by promotion of a series of practices and daily behaviours with important impacts. The activities are followed, measured, focused on prevention aspects, reduced consumption and efficient resource use. The main objective is to promote lifestyles in line with a post carbon society, by different interventions in various areas, and to reduce GHG emissions, efficient usage of resources in all sectors.

Tamera, sustainable community	Local	The Healing Biotope Tamera is a peace research project with the goal to create the model for a future society that is free from hatred, lies, violence and fear.	To create a future peaceful society
Persuasive force of children through education (FEEDU)	CrossNational	FEEDU was an educational project carried out in 9 European countries by 13 regional energy advice centres aimed at teachers and pupils of primary schools in order to obtain consciousness and results about renewable energy sources, rational use of energy and mobility.	Teachers were trained in energy education, they received the methodology and the necessary educational tools and experiences related to energy and mobility issues. A project-based learning plan in schools for a school year has the objective to changing attitudes of the pupils and their parents with respect to their energy consumption and mobility.
European Smart Metering Alliance (ESMA)	CrossNational	ESMA has defined and spread best practice in smart metering across European member states and sought to maximise the resulting energy savings. The project produced reports on key aspects of smart metering, a Best Practice Guide, a Financial Toolkit and Annual Report.	They make it possible for final customers to get more information about their energy usage. Trials have shown that this can reduce consumption. ESMA aimed to ensure that energy reduction will be maximised through the introduction of smart metering.
Common appliance policy – All for one, One for all – Energy Labels (COMEON LABELS)	CrossNational	The ComeOn Labels project aimed at collecting, summarising and sharing the best European experience related to the energy labelling of household appliances and defining and applying the most effective supporting actions for the proper implementation of the new labelling scheme.	1. Understanding the legislation 2. Proper information on labels 3. Proper display of energy labels 4. Consumer awareness 5. Product replacement schemes
Eco n' Home or how to reduce energy consumption in Household (ECO N' HOME)	CrossNational	Eco n' Home aimed at exploring an innovative approach to reducing the energy consumption of households, by setting up a practical service for households that provides advice and identifies possible improvements in their day-to-day energy consumption. It consists of a home energy diagnosis that enables the advisor to report energy consumption and draw up a list of recommendations of behaviour changes	Target reduction of CO2 emissions (1 ton per household per year) and energy consumption (10 to 20%) per household followed through behavioural changes, replacement and/or reconditioning of energy systems, appliances, regulation systems, and building envelope. Communication activities to the public on the results of the project through the Eco n'Home

			website (http://www.econhome.net) that has a section to count CO2 saved and kWh savings.
European Network of Information Centres promoting Energy Sustainability and CO2 reduction among local COMmunities (ENESCOM)	CrossNational	ENESCOM aimed at enhancing the role of local communities in mitigating climate change by creating a common methodology to promote and develop capacity building in energy sustainability and for the adoption of sustainable energy policies. The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans. The project promoted integration, the institutionalization of energy efficiency and the uptake of RES through widespread information and dissemination activities. It also promoted and fostered adhesion to the Covenant of Mayors' initiative.	The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans.
European Solar Days II (ESD II)	CrossNational	The European Solar Days II project aimed at raising European consumers' awareness about the potential and benefits of intelligent energy solutions, especially for solar energy - solar thermal heating and cooling and photovoltaic electricity production.	The basic strategy of the concept was to mobilise citizens and different entities (municipalities, NGOs and others) to organise events dedicated to the sun as a source of energy and its use. The wide range of events drew the attention to the potential of solar energy and helped inform potential consumers on how they can apply solar energy in their homes.

TRENDY TRAVEL; Emotions for sustainable transport (TRENDY TRAVEL)	CrossNational	<p>More than 50% of all human decisions are emotional - often against rational awareness -, and most marketing campaigns for cars, which cover more than 90% of all marketing expenses for transport, target human emotions - exploiting this fact. This constitutes a formidable barrier for marketing and awareness campaigns for sustainable transport. Mere information about the positive consequences of the use of sustainable modes helps - but will not do. Public transport, cycling and walking should be associated with positive emotions like excitement, fun, being moved (in the heart), lust for life, pride and so on. This is the aim to be achieved with the emotional approach, as developed in the EMOTIONS project and now to be continued and expanded in TRENDY TRAVEL.</p>	<p>RENDY TRAVEL is designed to address current and potential users of clean urban transport, multipliers, practitioners and decision makers in public transport companies, energy agencies, educational institutions, municipalities and regions</p>
Promotion of energy efficient appliances (PROMOTION 3E)	CrossNational	<p>Promotion 3E aimed at reducing the energy consumption of households' electric equipments and products by implementing actions to encourage the take-up of energy-efficient appliances as well as measures that increase quality and efficiency of information available to the consumers</p>	<p>These measures have led to higher market share for the most energy-efficient household appliances and contributed to accelerate their market penetration.</p>
Pattern of Energy Efficiency in the Schools (P.E.E.S.)	CrossNational	<p>P.E.E.S. is an educational project which aims at energy awareness of students attending the secondary schools with a strong attention on the involvement of the teachers. In order to obtain significant changes in the behaviours of energy-system users and to encourage a sustainable use of the energy the simple dissemination of the knowledge is not sufficient</p>	<p>Contribution to the forming of a "energy consciousness" in the students involved in the educational programmes of the project, giving instruments, competences and skills of analysis and evaluation. Energy School Management in the pilot-schools. Promotion of the cooperation and of the cultural exchange among students and teachers of the six Countries including the practice of the foreign languages, and encouraging the exchange of different experiences.</p>

Residential Monitoring to Decrease Energy Use and Carbon Emissions in Europe (REMODECE)	CrossNational	The project evaluated how much electricity could be saved by the use of the most efficient appliances and by the reduction of standby consumption. The research focused mainly new electronic loads such as: entertainment, information and communication technologies, stand-by consumption, lighting, as well as air conditioning in some southern countries.	Updated European database on residential consumption, including central and eastern European countries. Methodologies to combine the use of selective monitoring with wider-scale surveying. A software tool for evaluating energy performance in households. A set of policy recommendations for different types of equipment.
Campanha ON-OFF	National	ADENE (energy Agency) in collaboration with RTP (national TV) run an energy efficiency awareness raising campaign targeting families. A series of short movies was produced, explaining the concepts and giving tips to the public. Besides the clips small mini competitions and games are organised. The period: 27.7 to 7.8., during the »Volta a Portugal em Bicicleta«. In next phases other target groups will be focused on, like the schooling community.	The campaign aimed to change behaviour linked to energy efficiency and consumption in three main areas: home, work and mobility, by using two mascots (characters) – Onofre and Maria da Luz. One of the goals is to reduce energy expences.

ROMANIA (RO – 24)

Name	Scale	Description	Objectives
iBROAD : Individual Building (Renovation) Roadmaps	CrossNational	The iBROAD approach is an evolution of EPC and energy audit systems, aiming to become a real driver for renovation. The project will identify the elements, develop an integrated concept, and produce modular tools, suitable for differing national conditions.	providing knowledge and experience of deep renovation in individual buildings, increasing the renovation rate and depth across the EU.
SAVES2 : Students Achieving Valuable Energy Savings 2	CrossNational	SAVES2 targets students living in university accommodation (dormitories) and in private-rented housing. It helps them to change their energy behaviour and reduce their exposure to energy poverty.	Students in dormitories save energy, competing with their peers in other dormitories. Students follow their performance online and receive feedback, which encourages further action.

START2ACT	CrossNational	START2ACT aims to reduce residential energy consumption by changing behaviour of consumers in their everyday lives. The project aims at triggering action by young entrepreneurs and their emerging enterprises as well as by the owners and staff of young SMEs to introduce energy efficiency measures within their daily routines.	START2ACT will unleash the potential of energy savings at European start-ups and young SMEs via a set of innovative educational and capacity building measures.
Accelerated Penetration of Small-Scale Biomass and Solar Technologies (ACCESS)	CrossNational	The ACCESS project addresses small-scale technologies that utilise biomass and solar energy for heating and hot-water supply in dwellings with individual and local heating systems	explore and promote the biomass energy potential and perspectives for its increase
Creating liveable neighbourhoods while lowering transport energy consumption (PRO.MOTION)	CrossNational	The project addressed car dependency on three levels: 1. improving the objective conditions for a way of life that consumes less energy 2. changing people's perception and mobility behaviour, and 3. motivating people to live an energy saving life.	The objective was to change mobility behaviour by influencing people's travel decisions where the most important ones are made: at home. This was achieved by addressing three levels: • Improving conditions for sustainable modes • Changing perception and increasing awareness of sustainable modes • Encouraging people to adopt a less energy consuming lifestyle.
Energy, Education, Governance and Schools. A European school panel for involving local communities in energy efficiency programs (EGS)	CrossNational	The project developed an actual framework for the implementation of energy efficiency at school including a manifesto and courses for schools staff and for students.	To enhance the key role of high schools in the involvement of local stakeholders (students, families, small and medium enterprises, local authorities, other schools) in the process of improving the energy efficiency and literacy of their communities.
TOPTEN ACT : Enabling consumer action towards top energy-efficient products	CrossNational	TOPTEN ACT develops a comprehensive market transformation strategy targeting consumers, manufacturers, consumer associations and other key actors to promote energy-efficient products, so that they become the natural choice for consumers.	TOPTEN ACT impacts are both quantitative — savings of 331 GWh/year triggered per million € invested — and qualitative: markets are more transparent, media report on top efficient products, consumers change their using and purchasing behaviour.

enCOMPASS : Collaborative Recommendations and Adaptive Control for Personalised Energy Saving	CrossNational	An integrated socio-technical approach to behavioural change for energy saving, by developing innovative user-friendly digital tools to make energy consumption data available and understandable for different stakeholders in ways that empower them to achieve energy savings and manage their needs in energy efficient, cost-effective and comfortable ways.	It will demonstrate how this can be achieved with a holistic approach that integrates visualisation of energy data collected from smart sensors, user-generated information and context-aware collaborative recommendations for energy saving, intelligent control and adaptive gamified incentives.
European Young Energy Manager Championship (EYEMAN CHAMPIONSHIP)	CrossNational	The basic idea was to organise and execute a stimulating and motivating international competition for awarding the best European Young Energy Manager Team. The teams were challenged with a task of energy management in the places where they spend most of their time: schools and homes.	The championship started after an energy training of teachers and students and concluded with the EYE Manager Award which was won by the team obtaining the greatest economic savings. The project included a "peer to peer transfer": EYE-students trained other students concerning energy using products, energy saving behaviours and energy managerial criteria. EYE-teachers transferred the curricula and education tools and methods developed to their colleagues.
European Network of Information Centres promoting Energy Sustainability and CO2 reduction among local COMmunities (ENESCOM)	CrossNational	ENESCOM aimed at enhancing the role of local communities in mitigating climate change by creating a common methodology to promote and develop capacity building in energy sustainability and for the adoption of sustainable energy policies. The project promoted integration, the institutionalization of energy efficiency and the uptake of RES through widespread information and dissemination activities.	The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans.
More biking in small and medium sized towns of Central and Eastern Europe by 2020 (MOBILE2020)	CrossNational	The goal was to increase the share of biking as a mode of everyday transport in small and medium cities. Good practice examples and guidelines were promoted proactively by a working group on cycling, triggering a change in mobility behaviour.	Change mobility behaviour through capacity development and knowledge transfer about good practices

TRENDY TRAVEL; Emotions for sustainable transport (TRENDY TRAVEL)	CrossNational	Project uses emotional approach to promote public transport, cycling and walking as alternatives to car travel.	To show how sustainable travel can be made more attractive by appealing to and promising to satisfy people's emotional needs, with ensuing energy savings, emissions reductions and cost savings.
REMODECE (Residential Monitoring to Decrease Energy Use and Carbon Emissions in Europe)	CrossNational	REMODECE contributed to an increased understanding of existing and impending electricity use by European households resulting from different types of equipment, consumers' lifestyles, and comfort levels. The project evaluated how much electricity could be saved by the use of the most energy efficient appliances, by adopting a suitable behaviour and by the reduction of standby consumption.	Estimating the energy savings potential in electricity consumption of the EU residential sector and providing a set of policy and practical recommendations for different types of equipment (i.e. Electric Appliance Energy Guides)
Replacing incandescent light bulbs with energy-efficient ones	Local	Enel Romania power company runs an annual social responsibility campaigns to substitute old incandescent light bulbs with energy-efficient ones. During each annual campaign, they replace all old light bulbs in all households located in a selected small town or village. Selected towns/villages are located in socio-economically deprived areas, where most households are facing energy poverty.	lowering energy consumption for lightning
Suceava electromobility	Local	Project promotes electromobility in the city of Suceava and throughout Romania. Different types of e-vehicles were supplied and a network of charging stations was constructed. Results: reduced consumption of energy and decreased emission of climate-affecting gases, and a positive example for the use of electric vehicles.	motivate people to select a more sustainable mobility options
Bistrita without car	Local	A week-long campaign promoting sustainable means of transportation (walking, biking and use of public transport)	motivate people to select a more sustainable mobility options
Involvement of school children (ECOgroups)	Local	In order to raise awareness amongst school children and to involve them in sustainable energy issues, the city of Bistrița promoted establishment of "ECO groups" in 17 local schools. The groups focus on general environmental issues. Each group is composed of ten enthusiastic children participants and coordinated by a teacher.	change the way children and their families consume energy at home and in school
Casa Verde	National	Grant programme for households to purchase non-pressurised thermosiphon systems, pressurised solar thermal units and heat pumps.	installing green heating systems in homes

Casa Verde Plus	National	"Casa Verde Plus" adds to the renewable energy solutions financed in the basic programme "Casa Verde" by providing investments in increased energy efficiency, thermal insulation, LED lighting, green roofs and ecological materials.	reduce energy consumption in residential buildings, increase energy efficiency by stimulating the use of organic-natural insulation materials
Improving Energy Efficiency in Low-Income Households and Communities in Romania	National	The project addresses energy efficiency needs and builds capacity for implementation of energy efficiency measures in poorer regions. It stimulates the market for locally-produced, energy efficient building materials and overcomes the barriers to the implementation of energy efficiency measures among poorer households and communities in Romania.	improving energy efficiency of buildings
Light for Romania	Local	An NGO "Free Miorita" is running a project for bringing electricity to remote Romania villages, disadvantaged by location and lack of infrastructure. Since 2013, the project has brought light to homes of 78 families and two churches in 14 counties in Romania, which were previously illuminated by oil lamps, candles or flashlights. As these homes / villages are not connected to the grid, electricity is produced by solar panels.	bringing electricity to remote villages
Thermal rehabilitation of blocks of flats	National	The objective of the programme is to reduce energy consumption of rehabilitated apartment blocks by up to 40%, to below 100 kWh/m2. This will reduce pollution, increase value of the apartments and decrease the heating charges for the population. The programme covers 80% of the costs of thermal rehabilitation, while the remaining 20% are paid by the owners of the apartments.	lowering energy consumption for heating and cooling
ANEGRO	Regional	A free online tool for managing household consumption of energy and other utilities in Romanian Alba county. Each customer of electricity, gas, or water can request access to their files of collected energy data and monitor their personal/household consumption on a monthly basis, including the costs. Fuel consumption of vehicles can also be monitored. ANERGO provides tips and ideas for more efficient energy and fuel consumption based on information entered by the consumers.	lowering energy, water and fuel consumption
"Marathon 2020 - start the long run for a green future":	Local	Based on its Sustainable Energy Action Plan called "Marathon 2020", Bucharest District 1 implements energy efficiency measures to increase energy efficiency and use of renewable energy, while decreasing CO2 emissions. Measures include thermal retrofitting of multi-apartment blocks.	lowering energy consumption for heating and cooling

SLOVAKIA (SK – 29)

Name	Scale	Description	Objectives
Zelená domácnostiam (Green Households program)	National	<p>Support scheme to support small renewable energy sources in households. The national Green Households program is being prepared under the EU Operational Program Environmental Quality and managed by the Ministry of the Environment of the Slovak Republic. The project is part of the priority axis no. 4 to promote energy efficient and low carbon economy in all sectors. Green Households program is the first phase of support for the small renewable sources in family and apartment buildings with a budget of EUR 45 million. However, the total amount earmarked for this form of support amounts to EUR 115 million from European and national sources.</p> <p>Implementation of the support scheme is under the Slovak Innovation and Energy Agency (SIEA), which is a contributory organization of the Ministry of Economy of the Slovak Republic. Supported are small power plants, namely photovoltaic panels and wind turbines, as well as heat generators such as solar collectors, biomass boilers and heat pumps.</p>	The aim of the project is to increase the share of RES use in households and the associated reduction of greenhouse gas emissions.
Program for support of family houses insulation	National	<p>State support program for households. There have been two calls in 2016. Next one should be soon opened in the second quarter of 2017. Program is managed by the Ministry of Transport of Slovak Republic. Slovak government has saved 30 million EUR. Only 590 000 EUR has been granted or reserved. There was a very low interest of public for the first two calls, only 134 applications. Only 11 have been refunded and 41 have reserved money after the done work. The problem were administrative difficulties and low support. The new call should be easier and should guarantee support up to 40 % of the costs of 8 000 EUR.</p>	Energy consumption in residential buildings represents a major share in the overall energy consumption. So far only 35% of the houses have been refurbished. For this reason, the government adopted a measure to motivate the owners of houses to refurbish them.
Energy literacy	National	<p>Slovak Organization for Renewables prepared education manual in order to build understanding of energy among pupils. It is targeting systematic energy education approach among pupils and students on issues related to energy and inspiring them to implement the changes. Energy education is important to understand the nature and role of energy and to offer the application of this knowledge in practice.</p>	Educating pupils and students about energy and increasing their energy literacy

Energy savings in high schools	Regional	Using EU funds and Norwegian/EEA mechanism, Košice region refurbished heating systems of several schools to reduce energy consumption and use renewables.	Refurbishment of heating systems in high schools, saving energy, use of renewables
Repowermap	CrossNational	repowermap.org is a non-profit initiative to promote renewable energies and energy efficiency by making visible real-world examples and related local information in each person's neighbourhood. To this objective, an interactive map is developed jointly by a large network of organizations, institutions, regional and local authorities and other energy actors. The idea of the initiative is to encourage people to use renewable energies and energy efficiency	Promoting renewable energies and energy efficiency by making visible real-world examples and related local information in each person's neighbourhood
Energy saving tips	National	31 tips for saving energy by Greenpeace	Reducing energy consumption (in general)
Energy saving tips	National	Tips for saving energy by Slovak Innovation and Energy Agency	Reducing energy consumption (in general)
Energy saving tips	National	Information and tips for saving energy and RES by ZSE, the electricity and gas supplier	Reducing energy consumption (in general)
Accelerated Penetration of Small-Scale Biomass and Solar Technologies (ACCESS)	CrossNational	The ACCESS project addresses small-scale technologies that utilise biomass and solar energy for heating and hot-water supply in dwellings with individual and local heating systems	The project aimed to contribute to the large scale market penetration of these technologies by 1) developing a virtual market network; 2) exploring systematically the biomass energy potential and perspectives for its increase; 3) developing a method for the identification of optimal combined schemes; 4) promoting standards for both the concerned technologies and biomass products; 5) developing training courses; 6) elaborating optimal financing schemes; 7) dissemination activities.

Creating liveable neighbourhoods while lowering transport energy consumption (PRO.MOTION)	CrossNational	The project addressed car dependency on three levels: 1. improving the objective conditions for a way of life that consumes less energy 2. changing people's perception and mobility behaviour, and 3. motivating people to live an energy saving life.	The objective was to change mobility behaviour by influencing people's travel decisions where the most important ones are made: at home. This was achieved by addressing three levels: • Improving conditions for sustainable modes • Changing perception and increasing awareness of sustainable modes • Encouraging people to adopt a less energy consuming lifestyle.
Energy, Education, Governance and Schools. A European school panel for involving local communities in energy efficiency programs (EGS)	CrossNational	The main actor contributing to involve a whole community and at the same time training the younger generations is the school. The project developed an actual framework for the implementation of energy efficiency at school including a manifesto and courses for schools staff and for students. The core aim of the project was focussing on the involvement of local actors in 4 processes: educational programmes, teachers training, involvement of the local productive sector and governance.	To enhance the key role of high schools in the involvement of local stakeholders (students, families, small and medium enterprises, local authorities, other schools) in the process of improving the energy efficiency and literacy of their communities.
European Network of Information Centres promoting Energy Sustainability and CO2 reduction among local COMmunities (ENESCOM)	CrossNational	ENESCOM aimed at enhancing the role of local communities in mitigating climate change by creating a common methodology to promote and develop capacity building in energy sustainability and for the adoption of sustainable energy policies. The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans. The project promoted integration, the institutionalization of energy efficiency and the uptake of RES through widespread information and dissemination activities. It also promoted and fostered adhesion to the Covenant of Mayors' initiative.	The main objectives of the project were to create permanent consulting energy info desks as well as to motivate and support local and regional authorities to elaborate their own energy action plans.

European Solar Days II (ESD II)	CrossNational	The European Solar Days II project aimed at raising European consumers' awareness about the potential and benefits of intelligent energy solutions, especially for solar energy - solar thermal heating and cooling and photovoltaic electricity production.	The basic strategy of the concept was to mobilise citizens and different entities (municipalities, NGOs and others) to organise events dedicated to the sun as a source of energy and its use. The wide range of events drew the attention to the potential of solar energy and helped inform potential consumers on how they can apply solar energy in their homes.
More biking in small and medium sized towns of Central and Eastern Europe by 2020 (MOBILE2020)	CrossNational	Frontrunner cities in Europe have a modal share of ~20% cyclists. Most cities in the CEE however are far below 20%. The goal of MOBILE2020 is to enable stakeholders in small and medium cities in these countries to increase their share of biking as a mode of everyday transport. Good practice examples and guidelines exist but it is crucial to translate and adjust them to national circumstances and promote them proactively to have a broad reach. It is crucial to inform cities systematically and to overcome the singular "light house approach" in order to support the EU2020-targets. Creating national working groups on cycling in the target countries will foster a long-term development of cycling and will contribute to keep expertise and exchange on a high level. MOBILE2020 will empower municipal planners and decision makers to make the right investments, improve their planning procedures and to trigger a change in mobility behaviour.	Improving stakeholder communication and networks in cycling planning; Capacity development and knowledge transfer; Enabling municipal planners and decision makers in the target countries; Spreading good practice and being a good example
Promotion of the Intelligent Combination of Sun and Wood for Producing Warm Water and Heating for Private Houses (ICOSAW)	CrossNational	Within the ICOSAW project, partners with crafts background from Germany, Poland, Sweden and Slovakia have joined forces to promote combining solar panels and the use of firewood as a promising way of heating smaller buildings in reliable ways.	to promote combining solar panels and the use of firewood as a promising way of heating smaller buildings in reliable ways.

TRENDY TRAVEL; Emotions for sustainable transport (TRENDY TRAVEL)	CrossNational	<p>More than 50% of all human decisions are emotional - often against rational awareness -, and most marketing campaigns for cars, which cover more than 90% of all marketing expenses for transport, target human emotions - exploiting this fact. This constitutes a formidable barrier for marketing and awareness campaigns for sustainable transport. Mere information about the positive consequences of the use of sustainable modes helps - but will not do. Public transport, cycling and walking should be associated with positive emotions like excitement, fun, being moved (in the heart), lust for life, pride and so on. This is the aim to be achieved with the emotional approach, as developed in the EMOTIONS project and now to be continued and expanded in TRENDY TRAVEL.</p>	RENDY TRAVEL is designed to address current and potential users of clean urban transport, multipliers, practitioners and decision makers in public transport companies, energy agencies, educational institutions, municipalities and regions
Heating calculator	National	Calculator of ZSE (electricity and gas supplier) for use of heat	Providing information on the heat consumption in a household
Lighting calculator	National	Calculator of ZSE (electricity and gas supplier) for lighting	Providing information on consumption of different types of lights
CO2 calculator	National	Calculator of ZSE (electricity and gas supplier) for CO2 emissions	Providing information on CO2 emissions
Urban ET Festival in Bratislava, Slovakia: reconfiguring public space through social interactions	Local	The Urban ET Festival was a fun and creative public event with the purpose of bringing back life and social interactions to the car-dominated streets of the Slovak capital. It not only raised public awareness but also gave important impetus to decision-makers.	bringing back life and social interactions to the car-dominated streets of the Slovak capital. It not only raised public awareness but also gave important impetus to decision-makers.
Action days and mobility packages for students of the University of Zilina, Slovakia	Local	The University of Zilina organised a special event in partnership with the public transport operator (DPM_) in Zilina; during the university matriculation ceremony, new students received packages with informational and promotional materials about public transport services in the city and in the campus area.	About 7000 new students start at the university each year. Many of them come from other regions and have never used public transport in _ilina before. They represent a large number of potential public transport users. With the aim of attracting this target group, the university prepared a special event as well as mobility packages in collaboration with DPM_. The main objective of this action was to introduce students to the public transport system in _ilina

			and show them how to use the various public transport services to travel to university and to explore the city and its surrounding area.
Awareness campaign about public transport at the University of _ilina. Slovakia	Local	An awareness campaign about public transport at the University of _ilina is intended to change the behaviour and attitude of university employees and students toward transportation by developing practices that promote sustainable transport.	change the behaviour and attitude of university employees and students toward transportation by developing practices that promote sustainable transport.
Creative Competition and Mobile Exhibition on Public Transport by children in _ilina. Slovakia	Local	The municipality of _ilina held a creative competition for primary school children, dedicated to the theme "My dream public transport". The children's art works were displayed in municipal premises as well as on public transport vehicles.	The objective of this activity was to improve the image of public transport by introducing an interesting and unusual promotional activity. The city wanted to use children's talent to convey the message that public transport is a safe and comfortable way of travelling in the city. Given children's and young people's reliance on public transport, it is essential to involve them in decisions concerning this important issue.
DEHEMS	CrossNational	DEHEMS aimed to extend the state of the art in intelligent meters, moving beyond energy 'input' models that monitor the levels of energy being used to an 'energy performance model' that also looks at the way in which the energy is used.	DEHEMS' aim was to improve the existing monitoring approach to levels of energy being used by households, with an overall aim of reducing CO2 emissions across Europe
Electricity map	CrossNational	Live CO2 emissions of electricity consumption. Shows in real-time where electricity comes from and how much CO2 was emitted to produce it. Electricity imports and exports between countries.	Live CO2 emissions of electricity consumption. Shows in real-time where electricity comes from and how much CO2 was emitted to produce it. Electricity imports and exports between countries.

START2ACT	CrossNational	START2ACT aims to reduce residential energy consumption in the EU via changing the behaviour of consumers in their everyday lives by approaching them at their workplace. With a focus on European start-ups and young SMEs, the project aims at triggering action by young entrepreneurs and their emerging enterprises as well as by the owners and staff of young SMEs to introduce energy efficiency measures within their daily routines.	START2ACT will unleash the potential of energy savings at European start-ups and young SMEs via a set of innovative educational and capacity building measures.
From Estonia till Croatia: Intelligent Energy Saving Measures for Municipal housing in Central and Eastern European Countries (INTENSE)	CrossNational	INTENSE aims at transferring intelligent energy saving measures for municipal housing from "old" EU Member States to "new" Member States and Accession countries in Central and Eastern Europe.	Developed public awareness raising strategy and public information toolkits for municipalities for guiding of consumption patterns of inhabitants towards energy saving measures in buildings in Central and Eastern European Countries.
Creating Actions among Energy Conscious Children (KIDS4FUTURE)	CrossNational	The Kids4Future consortium consists of 10 partners from a good mix of European countries. The project started in January 2007 and will last for three years targeting minimum 20 pilot schools in each partner country with a common energy story, TV, events and websites for children presented under one brand and common visual profile. At the core of the action are a common platform and one brand.	The platform is a universal energy story, which aims to bring in new dimensions and create understanding and enthusiasm for the energy subject, a sustainable future, and the global energy challenges. A strong brand will facilitate recall and strengthen recognition across channels, activities and countries. Pillars corresponding to children's own arenas support the platform: school, TV, event and web.
EPORE - Energy Poverty Reduction in Eastern Europe	CrossNational	EPORE aims at supporting clearly defined groups of vulnerable consumers in tackling fuel poverty by facilitating more sustainable energy behavior and choices in their everyday life. It aims also at achieving structural changes of national policies to specifically address fuel poverty and include the transfer of best practices for the active engagement of vulnerable consumers.	1) creation of new working positions called "energy scanners", lower educated and long-term unemployed people trained to undertake an energy screening of the energy situation of a household, in which the household receive energy tips and energy saving devices, 2) guideline for addressing fuel poverty definition, condition and

			transfer of best practice (delivered to national policy-makers), 3) manual with tailored scheme of incentives in three specific selected region, 4) pilot actions in the three areas and condition/improvements monitoring after 12 months
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SPAIN (ES – 58)

Name	Scale	Description	Objectives
El Valle de Sensaciones	local	A prototype of an Ecovillage Laboratory. The focus of the project is an experiential integration of humans into nature. Founded by a couple being fed up with mainstream unsustainable practices and found the perfect spot for the ecovillage. Built over 10 years.	Learning in action, inspiring and training others for transforming their practices to sustainable living.
Amigos de la Tierra: Energía comunitaria	CrossNational	An association without financial motives that seeks to create a local and global change towards a more sustainable society. Based in Madrid, partners in 70 counties (global perspective). Promotes community renewable energy generation projects (PV and wind), putting it in the hands of the citizen.	Improve people's motivation towards and the implementation of renewable energy generation sources. Educate citizens.
Huerta Solar	Local	Offers people the chance to become co-owner of a photovoltaic installation on a roof by means of one or more financial holdings. The 10 Kw plant is in Leganés (Madrid). The electricity generated is supplied to buildings in the area through the grid to avoid energy losses.	Promotes renewable energy to help stop climate change
Auditorías energéticas	Regional	The project encourages the improvement of energy efficiency and savings in residential homes (thermal and electric, e.g. possible heat losses, characteristics of the domestic electricity) across Galicia, Ibiza, La Rioja, Mallorca, and Madrid. The results of the audits will be used for a study that will help put these types of projects into effect across the population.	To better energy efficiency and increase energy savings
EOLPOP	local	To celebrate the 25th anniversary of the public opening of the first modern wind turbine, connected to the grid in Catalonia, the local branch of Eurosolar (European Association for Renewable Energies) launched a pioneering initiative: Living from the air of the sky. It involves the installation of a wind turbine with shared ownership among citizens who voluntarily provide the money needed to realize the project. The site chosen is within the municipality of Pujalt (Anoia, Catalunya) for the good wind conditions, easy access, and accessibility to	Install a wind turbine of shared ownership, making solidarity between urban and rural people possible. Move away from big energy companies and contribute to the democratization of energy

		the medium voltage network.	
No Más Cortes De Luz platform	national	From a "crisis of injustice and irresponsible governmental management," the platform #NoMásCortesDeLuz was formed by more than 25 social organizations, citizens, ecologists, consumers, and political parties to make visible the energy poverty that affects millions of Spaniards through a one-hour voluntary blackout 19:00-20:00 on December 21, 2016, as an expression of citizen solidarity. The movement has continued since.	Call attention to the energy poverty in Spain
Liberar al Sol	national	Provides an easy "10 step guide" to empower citizens to produce and consume their own energy in a collective form, as well as to reduce their consumption through energy savings and efficiency. Teaches consumers that they can transform the energy sector through their demand.	Lower energy consumption
Cocinar al sol	local	Solar Cookers International Network helps schoolchildren build solar ovens at the Fray Luis de León school in Valladolid to educate and inspire at a young age.	Changing the way people cook
El Hierro wind farm	regional	Although other islands around the world are powered by solar or wind energy, El Hierro is the first to secure a constant supply of electricity by combining wind and water power and with no connection to any outside electricity network.	Lower fossil fuel consumption (Be powered by 100% renewable energy)
EURONET 50/50	CrossNational	Aims to mobilize energy savings through the implementation of the 50/50 methodology in 500 schools and nearly 50 other public buildings from 13 EU countries (114 from Spain specifically). The 9-step methodology increases energy awareness of the building users and actively involves them in energy-saving actions. The schoolchildren learn about how to be more efficient with energy and the importance of doing so, and bring this information and influence back home to their families for a greater impact.	Raise energy awareness of students to change their everyday behaviors
EndeF hybrid solar installation (St. Sara Maynar, Zaragoza)	local	EndeF executed the installation of the solar plant formed by hybrid Ecomesh and conventional photovoltaic panels as well as the electrical and hydraulic system for domestic hot water, within the project of a comprehensive rehabilitation of a 16-apartment building in Zaragoza, promoted by the municipal association Zaragoza Vivienda. EndeF also replaced existing HVAC equipment and boilers with newer and more efficient devices, as well as all individual and collective gas supply networks.	Lower emissions created from energy consumption
Piscinas Solares	local	Seeks to contribute to the energy transition and start the change towards a new energy model where the citizen, the consumer, must be considered the center and not just someone who pays the system.	Make people "unplug" from the main grid by producing their own solar energy with pools

GoiEner	regional	GoiEner believes that electricity is now a need as basic as food, and wants consumers to reclaim their energy sovereignty and make them aware of its importance.	More responsible and sustainable energy consumption
Luz en Casa Oaxaca	regional	The Spanish ACCIONA Microenergia foundation brought and adapted its rural electrification program "Luz en Casa" to the Mexican situation to give a solution to the Oaxaca (Mexican state) communities of population less than 100, where the electricity public utility (Comision Federal de Electricidad-CFE) had no plans of electrification.	Facilitate sustainable access to energy in isolated rural communities
Madrid 100% Sostenible	local	A citizen-led movement supported by Alianza por el Clima (400 organizations). Among 11 other goals, Madrid should 1) Have municipal electric power contracts 100% renewable source guaranteed, 2) implement energy efficiency programs in schools, and 3) Establish fiscal measures to promote energy efficiency and renewable energy.	Lower energy consumption, switch to renewables
Smart Meter total replacement	national	A transitional project to implement electronic measurement equipment to measure end-use efficiency and energy services. The evolution of the system is necessary to have a greater efficiency in the consumption, and it needs real time management of the energy flows to provide bi-directional measurement in the local energy production. Thus, the current trend is towards a Smart Grid, being understood as a system of management, information, and communications applied to the electricity grid, a concept whose objective is to increase connectivity, automation, and coordination between producers, suppliers, and consumers in the distribution network.	Greater efficiency in energy consumption
Energía con conciencia	Regional	An educational project by Fundación Repsol to raise youth awareness about the importance of responsible energy use and the value of existing resources, with 34 educational centers in A Coruña, Bizkaia, Ciudad Real, Madrid, Murcia, and Tarragona. Part of Aprendenergía, a larger education program promoting energy efficiency and overall understanding.	Changing attitudes towards and creating an understanding of the importance of energy efficiency
Som Energia	national	Som Energia is a non-profit green energy consumption and production cooperative, which aims to bring together thousands of people with the desire to change the current energy model and work together to achieve a 100% renewable model. They produce electricity from renewable sources (solar, wind, biogas, biomass, etc.) with voluntary contributions from partners.	Change the current energy model to that of 100% renewable energy
8th Life EcoVillage Project	local	EcoVillage project in the Canary Islands started by NPO/NGO Asociación Gaia Tasiri to repopulate a rural farmstead and establish a community to do more effective work in facilitating the global and local transition, and also researching in action.	Turn away from consumerism to a less energy and resource-dependent lifestyle

		organized around ecology and sustainability. They are a self-titled Transition Town (post-petroleum and off-grid communities).	
O Couso	local	An integrated and open community where everyone operates under the principle of "Leave what you can; take what you need." The self-sufficient ecovillage has many permanent residents and also hosts pilgrims making the Camino de Santiago.	Maintain energy self-sufficiency, provide a haven for eco-friendly travelers and residents
La Borda cohousing	local	Co-housing project in Barcelona	Change the way people live and share
Finca Luz Serena	local	An ecovillage in Tenerife as an educational eco-center to serve as a model and living reference for an integrative and symbiotic way of life with the natural environment, as well as a space of research to teach, learn, and share with each other about sustainable living, with a focus on bio-construction and clean energies.	Change the way people live and share
Hogares Verdes	regional	An educational program born in Segovia from the Centro Nacional de Educación Ambiental (CENEAM), now in 12 Spanish communities directed towards families concerned about their environmental impact and their daily decisions and habits. The program seeks to help them by promoting autonomy in the domestic consumption of water and energy and helping them make more ethical purchases.	Lower energy and water consumption
Actúa con energía	Local	An environmental education program in Aragón developed by the Departamento de Medio Ambiente del Gobierno de Aragón, la Dirección General de Calidad Ambiental y Cambio Climático, resulting also in the Estrategia Aragonesa de Educación Ambiental (EÁREA)- a strategy for environmental education. It links habits, techniques, and methods of energy consumption with their environmental consequences.	Reduce energy consumption through education and behavior change in daily life
Sol sin límites, energía sin límites	national	An environmental education program for schools in 16 provinces about the use of solar energy as a clean energy source. Created by la Fundación Oxígeno, with the financial support of la Obra Social de Caja Madrid.	Promote positive and participatory attitudes towards the use of solar energy, create changes in societal behavior and habits
Granada en transición (GET)	local	A citizen-led project in Granada that aims to create a just, creative, sustainable society by fostering initiatives that combat the current challenges such as climate change, a social and economic crisis, and the dependency on fossil fuels and their derivatives.	Reduce energy dependency and environmental footprint

La Flor de la Vida transition town	local	The transition town in Girona created a road map for a sustainable future of the city by proposing a number of changes in the areas of energy production, health, education, economy, and agriculture. The central ideology of the movement of communities in transition is the idea that a life without oil can be much more enjoyable and satisfying than the present. An essential aspect of the transition is precisely the emphasis placed on creating cooperative ties between people, out of alienation and individualism that has brought the consumer society, while stimulating the transition inside each person should do to change their own consumer habits, which are deeply rooted, to move from a society based on excessive and unsustainable consumption to one that is more satisfying and can also last over time.	Reject fossil fuels and lessen both general and energetic consumption
Noctisolar Ecolight: luz a la esperanza	national	Inspired by the firefly, Noctisolar attempted to bring artificial light to areas without electricity, using solar energy to emulate the successful gas camping lamp.	Provide low cost and high efficiency solar technology to the problem of domestic lighting in areas without electrification, avoiding liquid fuels like oil or kerosene that create indoor air quality problems.
Alcolea del Río solar plant	local	The first big project of the "Generation kWh." A fully-funded solar plant connected to the grid, producing 3.4 million kWh of green energy annually.	Create renewable community energy
Ecoxarxa Montseny	local	An association of citizens created by a group of 25 people, joined continuously to create mutual assistance and learning, based on criteria of environmental sustainability, proximity, and solidarity. They have developed a self-sufficient community to reduce climate impacts through the promotion of "prosuming" and renewable energy.	Lower individual and collective environmental footprint
Calafou	local	A "post-capitalist eco-industrial colony" that intends to develop a network based on a network of cooperatives, individual projects, and housing in a collective area. It seeks to facilitate the sharing of ideas, goods, and resources to foster synergies in a natural way as a place for social innovation, technology, and policy based on self-responsibility and cooperation.	Increase the sharing of goods, ideas, and resources to foster natural synergies
Pla d'Energia Participatiu	local	A participatory energy plan for the neighborhoods of San Martin, Verneda, and Pau in the Barcelona suburbs. It is a community action plan to foster energy-saving actions, augment the resilience of collective energy communities, and empower community self-sufficiency to lessen dependence on fossil fuels through multiple working groups (e.g. food	Lessen energy consumption directly, as well as indirectly through food and mobility.

		production, mobility, and energy).	
Banc d'energia	regional	The energy bank is a legally constituted partnership that promotes energy savings and energy efficiency for the benefit of those who are energy-vulnerable in the surrounding areas of Barcelona with governmental support. The bank provides training on how to save energy and become more energy-efficient; in return, those helped should give back a donation equal to at least 35% of the money they are saving by cutting energy costs as a result of the program. Investments go towards bettering energy efficiency in vulnerable areas.	Increase basic access to energy, improve housing conditions for vulnerable people to make them less energy-dependent, minimize wastage of energy use
Valldaura Self-Sufficient Labs: Energy Lab	local	Valldaura aims to be a self-sufficient community capable of meet its needs by means of renewables. The keystone of the whole system is the Energrid research project, developed by IaaC for Endesa, in collaboration with the i2Cat Foundation, and being implemented for the first time at Valldaura Labs. Energrid is a kind of energy Internet, a system in which the various Valldaura buildings produce and consume, store, or share energy according to strict principles of efficiency. Each electrical node (switch or power point) has a microcomputer (developed in the project) that monitors individual consumption and can avoid demand peaks by actively managing consumption. It is intended to introduce this model in the urban environment over the next few years. At Valldaura, energy comes from a biomass plant that uses local resources, as well as solar panels and mini wind-turbine systems.	Develop a self-sufficient society and improve the local environment
Azimut 360 SCCL	CrossNational	Azimut 360 is a community of engineers that specializes in the development and implementation of renewable energy projects , from generation to distribution, and consumption management. They aim to empower people by increasing energy self-sufficiency and decentralized power generation.	Promote social and solidarity economy (SSE) by means of cooperation and by creating synergies to cover energy demand in a sustainable way.
Ibiza Transition Island	local	They wish to inspire the whole population, including the local administration, to build an environmentally sustainable future for the island of Ibiza, which can then be transmitted to the rest of the planet. As part of the transition, they will encourage the use of alternative energy sources, including the introduction of a free energy market (resilience) and begin the energy descent program by offering free testing of existing properties and a professional list of suggested improvements, with corresponding information on available subsidies.	Encourage renewable energy sources and reduce overall household energy consumption
Casita Verde	local	Casita Verde is an experiential centre for the study and application of sustainable living techniques. It is the headquarters and flagship project of Greenheart Ibiza.	Showcase, embody, and educate a way to live more sustainably, especially in regard to energy
Cardedeu en	local	Cardedeu aims to create a network as an alternative to the	Raise environmental awareness

Transició		<p>system, made up of people united by a sense of cooperation and community; maintain a committed and active community to achieve a life of quality and resilience; have a makeup of community volunteers, and resilient, independent, creative, non-hierarchical processing. Their mission is to show that a simple life with little consumption can be happy, raise awareness about the current problems and their solutions, and provide tools to make a reasonable use of goods and energy. Lastly, they will network communities that support each other and exchange and, through projects towards self-sufficiency and sustainability, causing a contagion effect and social transformation to happiness.</p>	<p>and provide tools for a sustainable, happy life.</p>
CLEAR Consumers to Learn about, Engage with and Adopt Renewable energy technologies	CrossNational	<p>CLEAR's objective is to lower market barriers to the purchase of RES, hence raising consumers capacity to take informed decisions. The result should be a significant uptake in the purchase of renewable energy solutions (RES) by European consumers and therefore an important contribution to the 2020 European targets</p>	<p>To actively guide consumers through all the stages leading to the purchase of domestic renewable and low-carbon energy technologies such as solar photovoltaic, solar thermal, heat pumps and wood pellet stoves (for space heating).</p>
TRIME	CrossNational	<p>TRIME can help social housing residents to reduce their energy use and cost of bills. There are 7 social housing organisations that are participating in the project.</p>	<p>To reach residents through the Energy Ambassador model (The Netherlands and Belgium) To reach residents through promoting the Challenge To measure the energy saved by residents</p>
SMARTER TOGETHER	CrossNational	<p>SMARTER TOGETHER's overarching vision is to find the right balance between smart technologies and organizational/governance dimensions in order to deliver smart and inclusive solutions and to improve citizen's quality of life.</p>	<p>Expected results are: 1) >151,800 m² of refurbished buildings, primarily housing estate with a 50-60 % average energy and CO₂ reduction; 2) 14.6 MW of newly installed renewable capacity; 3) 10/15 new e-mobility solutions for passengers and freight); 4) 1400 created jobs, 130 M€ investments, all deployed with support of integrated ICT solutions and in dialogue with the inhabitants.</p>

4RinEU : Robust and Reliable technology concepts and business models for triggering deep Renovation of Residential buildings in EU	CrossNational	4RinEU will define robust, cost-effective, tailor able deep renovation technology packages supported by usable methodologies, feeding into reliable business models. The project will minimize failures in design and implementation, manage different stages of the deep renovation process, from the preliminary audit up to the end-of-life, and provide information on energy, comfort, users' impact, and investment performance.	to reduce demand, to improve energy efficiency, to improve building operations and to reduce construction waste
TRIBE : TRaining Behaviours towards Energy efficiency: Play it!	CrossNational	TRIBE project aims to contribute to a citizens' behaviour change towards energy efficiency in public buildings, through their engagement in the experience of playing a social game, linked by ICT to real time data collected from 5 pilot buildings hosting around 1.300 regular users (employees, tenants...) and almost 12.000 eventual users (visitors). The targeted average energy savings in the pilots is 24,8% of the current energy consumption.	(1) an initial energy audit and diagnosis, (2) the development of a virtual pilot in conformity with the image of their real buildings, (3) an adapted ICT for energy efficiency deployment plan, (4) a funding scheme merging existing instruments with clean web solutions and (5) a user engagement campaign addressing the specific behaviour change challenges.
TOPTEN ACT : Enabling consumer action towards top energy-efficient products	CrossNational	TOPTEN ACT develops a comprehensive market transformation strategy targeting consumers, manufacturers, consumer associations and other key actors to promote energy-efficient products, so that they become the natural choice for consumers.	TOPTEN ACT impacts are both quantitative — savings of 331 GWh/year triggered per million € invested — and qualitative: markets are more transparent, media report on top efficient products, consumers change their using and purchasing behaviour.
Smart-up project	CrossNational	A consortium led by Alphéeis, was selected by the H2020 program, it helps vulnerable households in 4 countries (Fr, IT, ES, UK), to use their Communicating counter to improve their energy saving. They are training formers, that they meet this vulnerable households show them how to reduce their consumption.	Helping the Householders to change their patterns to use New counters smarter.
FIESTA	CrossNational	FIESTA aims to cut down household energy consumption and related emissions, by fostering investments in production from renewable energy sources and purchase of more energy-efficient heating and cooling systems, and by conducting energy audits. Specially targeted are households of families with children and vulnerable consumers.	Reduction of home energy consumption (especially heating and cooling)

Promoting best practices to support energy efficient consumer behaviour on European islands (PROMISE)	CrossNational	PROMISE was born as a response to the need of reducing residential energy consumption in European islands. Domestic energy use is still largely invisible to the user, while rapidly increasing due to larger homes, new services and additional appliances.	By sharing information and experience, energy agencies from Samso (Denmark), Iceland, Rhodes (Greece) and Tenerife (Spain) aimed to promote tried-and-tested methods for reducing the energy consumption of households. Public authorities, both local and national, have been involved and policy recommendations with concrete action lines have been elaborated that favour energy efficient consumer behaviour.
USMARTCONSUMER	CrossNational	The USmartConsumer project is aimed at enhancing European households (tenants and owners) from the improved information facilities of their smart meter, informing and involving them on the innovative services that help them to save electric, gas or district heating energy and get user-friendly interfaces, thus improving consumer engagement.	To promote the smart meter rollout and services to household sector (market activation and awareness campaigns) and lower energy consumption
European Young Energy Manager Championship (EYEMAN CHAMPIONSHIP)	CrossNational	The basic idea was to organise and execute a stimulating and motivating international competition for awarding the best European Young Energy Manager Team. The teams were challenged with a task of energy management in the places where they spend most of their time: schools and homes.	The championship started after an energy training of teachers and students and concluded with the EYE Manager Award which was won by the team obtaining the greatest economic savings. The project included a "peer to peer transfer": EYE-students trained other students concerning energy using products, energy saving behaviours and energy managerial criteria. EYE-teachers transferred the curricula and education tools and methods developed to their colleagues.
Instigating Simple Energy Efficient Behavioural Practices in Schools (FLICK THE SWITCH)	CrossNational	The objective was to influence the behaviour patterns of EU children and youth by motivating them to embrace the need for being responsible and sustainable in the use of energy. To achieve this, an EU-wide energy efficiency awareness and behaviour changing campaign for primary and secondary schools	A dynamic, interactive and highly relevant Flick the Switch Campaign website has been designed, built and launched on the internet to stimulate the interest of European kids, teens, teachers, parents, education

			boards, government authorities, energy stakeholders, energy experts, media, etc.
European Smart Metering Alliance (ESMA)	CrossNational	ESMA has defined and spread best practice in smart metering across European member states and sought to maximise the resulting energy savings. The project produced reports on key aspects of smart metering, a Best Practice Guide, a Financial Toolkit and Annual Report.	They make it possible for final customers to get more information about their energy usage. Trials have shown that this can reduce consumption. ESMA aimed to ensure that energy reduction will be maximised through the introduction of smart metering.
European Solar Days II (ESD II)	CrossNational	The European Solar Days II project aimed at raising European consumers' awareness about the potential and benefits of intelligent energy solutions, especially for solar energy - solar thermal heating and cooling and photovoltaic electricity production.	The basic strategy of the concept was to mobilise citizens and different entities (municipalities, NGOs and others) to organise events dedicated to the sun as a source of energy and its use. The wide range of events drew the attention to the potential of solar energy and helped inform potential consumers on how they can apply solar energy in their homes.
Promotion of energy efficient appliances (PROMOTION 3E)	CrossNational	Promotion 3E aimed at reducing the energy consumption of households' electric equipments and products by implementing actions to encourage the take-up of energy-efficient appliances as well as measures that increase quality and efficiency of information available to the consumers	These measures have led to higher market share for the most energy-efficient household appliances and contributed to accelerate their market penetration.
European fuel Poverty and Energy Efficiency (EPEE)	CrossNational	Retrofitting of old buildings for low-income tenants with a focus on identifying the most effective measures for the national context and lightning fuel poverty as a priority in policy; Qualify and Quantify energy poverty; Finding mechanisms to address climate change and reducing fuel poverty through retrofitting buildings	Evaluation of types of existing mechanisms (legislative, financial, technical, etc.), stakeholders, best practice; status in different countries.

Pattern of Energy Efficiency in the Schools (P.E.E.S.)	CrossNational	P.E.E.S. is an educational project which aims at energy awareness of students attending the secondary schools with a strong attention on the involvement of the teachers. In order to obtain significant changes in the behaviours of energy-system users and to encourage a sustainable use of the energy the simple dissemination of the knowledge is not sufficient	Contribution to the forming of a "energy consciousness" in the students involved in the educational programmes of the project, giving instruments, competences and skills of analysis and evaluation. Energy School Management in the pilot-schools. Promotion of the cooperation and of the cultural exchange among students and teachers of the six Countries including the practice of the foreign languages, and encouraging the exchange of different experiences.
Creating Actions among Energy Conscious Children (KIDS4FUTURE)	CrossNational	The Kids4Future consortium consists of 10 partners from a good mix of European countries. The project started in January 2007 and will last for three years targeting minimum 20 pilot schools in each partner country with a common energy story, TV, events and websites for children presented under one brand and common visual profile. At the core of the action are a common platform and one brand.	The platform is a universal energy story, which aims to bring in new dimensions and create understanding and enthusiasm for the energy subject, a sustainable future, and the global energy challenges. A strong brand will facilitate recall and strengthen recognition across channels, activities and countries. Pillars corresponding to children's own arenas support the platform: school, TV, event and web.
Evaluation of Energy Behavioural Change Programmes (BEHAVE)	CrossNational	BEHAVE aimed to enhance the performance of energy-related behaviour change programmes by adopting a rigorously scientific approach to evaluating a wide range of recent examples, and by developing an effective model for design, implementation and evaluation of this type of programmes for use by policy makers, programme designers/managers, and consumer organisations.	The evaluation covered 40 cases, selected out of an inventory of a 100 examples of various types of behaviour programmes, such as education, mass media campaigns, direct feedback, personal advice, community network approaches and innovative use of ICT tools. BEHAVE made theoretical insights explicit and facilitated learning from experiences. In doing so BEHAVE was not only

			contributing to better programme design and implementation in the future, but also to a better understanding of social and cultural influences on energy behaviour, through the analysis of impacts in different national settings.
The Energy Path: an e-learning platform for education of the new generations in the sustainable energy field (ENERGY PATH)	CrossNational	Energy-Path develops the first innovative e-learning platform at European level, based on open source technology, containing didactic resources on RES, RUE, Transport and mobility which allows the online updating of the Web's contents and didactic material.	This Platform will sensitize and train the target audience in the involved countries, promoting the development of a new model of environmental education, affecting the changes of attitude, creating a conscience of individual and collective commitment with the acceptance and boost of the clean technologies and its good use.

SWEDEN (SE – 24)

Name	Scale	Descriptions	Objectives
POWERHOUSE NEARLY ZERO CHALLENGE (POWER HOUSE NZC)	CrossNational	This initiative aimed to boost the number of nearly-Zero Energy homes by sharing ideas and expertise between Public, Cooperative and Social Housing professionals. It has provided a great opportunity for housing providers to share learnings, gather accurate performance data and make progress on energy efficiency throughout Europe.	mainstreaming effective solutions and showcasing exemplary financing and organisational solutions used to reach nearly zero standards in existing housing in divided ownership
EEPLIANT : Energy Efficiency Compliant Products 2014	CrossNational	The project strengthens market surveillance and monitoring, verification and enforcement of ecodesign and energy labelling requirements across the European Single Market.	Greater compliance with Energy Labelling and Ecodesign Directives due to increased market surveillance of products; Increased awareness of users
iBROAD : Individual Building (Renovation) Roadmaps	CrossNational	The iBROAD approach is an evolution of EPC and energy audit systems, aiming to become a real driver for renovation. The project identifies elements, develops an integrated concept, and produces modular tools, suitable for differing national conditions.	providing knowledge and experience of deep renovation in individual buildings, increasing the renovation rate and depth across the EU.

TRIBE : TRaining Behaviours towards Energy efficiency: Play it!	CrossNational	TRIBE project aims to contribute to a citizens' behaviour change towards energy efficiency in public buildings, through their engagement in the experience of playing a social game, linked by ICT to real time data collected from 5 pilot buildings hosting around 1.300 regular users (employees, tenants...) and almost 12.000 eventual users (visitors).	(1) an initial energy audit and diagnosis, (2) the development of a virtual pilot in conformity with the image of their real buildings, (3) an adapted ICT for energy efficiency deployment plan, (4) a funding scheme merging existing instruments with clean web solutions and (5) a user engagement campaign addressing the specific behaviour change challenges.
TOPTEN ACT : Enabling consumer action towards top energy-efficient products	CrossNational	a comprehensive market transformation strategy targeting consumers and other actors to help them embrace and promote energy-efficient products.	more transparent markets, media report on top efficient products, change of consumers' using and purchasing behaviour.
Energy-Conscious HOuseholds in ACTION (ECHO ACTION)	CrossNational	ECHO ACTION aimed at creating a model of active and voluntary involvement of families, local economic actors and financial institutes, coordinated by the local energy agency, who will contribute towards the implementation of local energy plans.	On one side it addressed families as final users to shift the "demand side" towards more responsible energy use. On the other side it aimed to organise companies and financial institutes to provide relevant services and products to the families.
European Young Energy Manager Championship (EYEMAN CHAMPIONSHIP)	CrossNational	The basic idea was to organise and execute a stimulating and motivating international competition for awarding the best European Young Energy Manager Team. The teams were challenged with a task of energy management in the places where they spend most of their time: schools and homes.	The championship started after an energy training of teachers and students and concluded with the EYE Manager Award which was won by the team obtaining the greatest economic savings. The project included a "peer to peer transfer": EYE-students trained other students concerning energy using products, energy saving behaviours and energy managerial criteria. EYE-teachers transferred the curricula and education tools and methods developed to their colleagues.

Persuasive force of children through education (FEEDU)	CrossNational	FEEDU was an educational project aimed at teachers and pupils of primary schools in order to obtain consciousness and results about renewable energy sources, rational use of energy and mobility.	Teachers were trained in energy education, they received the methodology and the necessary educational tools and experiences related to energy and mobility issues. A project-based learning plan in schools for a school year has the objective to changing attitudes of the pupils and their parents with respect to their energy consumption and mobility.
Promotion of the Intelligent Combination of Sun and Wood for Producing Warm Water and Heating for Private Houses (ICOSAW)	CrossNational	ICOSAW project promotes combining solar panels and the use of firewood as a promising way of heating smaller buildings in reliable ways.	to promote combining solar panels and the use of firewood as a promising way of heating smaller buildings.
SPIRIT - Energising Faith Communities (SPIRIT)	CrossNational	The project engaged faith based organisations in a programme that aimed to achieve measurable energy savings, CO2 emissions reduction and lasting behaviour change. These networks were mobilised by training and supporting members of faith communities to become volunteer Energy Champions, who delivered energy saving advice to fellow members of their communities.	Engaging faith based communities to raise awareness on energy efficiency Recruiting and training volunteer Energy Champions within these communities Organising advice sessions to share concrete energy saving solutions with interested households, helping them to reduce their energy consumption at home
"Swedish largest energy saving experiment"	National	10,000 Swedish households participated in an experiment to find out how much electricity could be saved if they had continual feedback on the usage and if this can change energy use related behaviour in the households. All the participating households were equipped with displays connected to the smart electricity meters and showing electricity consumption, load demand and costs in real time.	electricity consumption savings and behavioural changes. The study also aimed to examine how different factors as: "family structure", "level of education", "main heating system" and "price-zone location" of the households affected their electricity use and their energy related behaviour.

"End-use metering campaign in 400 households in Sweden, assessment of the potential electricity savings"	National	Objective of the project was to analyse the electricity consumption in the residential sector and evaluate the potential savings from substituting existing appliances with more efficient ones.	to precisely describe the state and structure of the specific-electricity uses in the residential sector; to give an overview of the consumption for the common area for residential buildings; to evaluate the potential savings that can be achieved in the households by substituting the appliances in place with energy efficient appliances.
Energy Neighbourhood - climate competition between municipalities and their citizens	CrossNational	The Energy Neighbourhood project inspires and encourages communities to achieve energy savings through changes in behaviour. 8-12 households formed a team, the so-called 'Energy Neighbourhood', and competed with other neighbourhoods. The goal was to make energy savings of at least 8% over a six month period, compared to the same period the previous year. The municipality plays the role of referee and supporter.	The goal of the participants was to save as much household energy as possible for both themselves and their neighbourhood through simple and cost effective measures such as changes in user behaviour, using energy saving lamps and disabling stand-by.
STATIC!	CrossNational	A research project that investigates interaction and product design as a way of increasing our awareness of energy in everyday life. The Static! design research program built on two main ideas: that designers can work with energy not only from a technical but also from an aesthetic point of view; and that product use need not only be about utility and ease-of-use but also about critical reflection on energy through the objects at hand.	increasing awareness of energy use in everyday life
CEPHEUS project (Cost-Effective Passive Houses as European Standards)	CrossNational	CEPHEUS is a future-oriented project, which aims at the development and implementation of innovative building projects at moderate costs. CEPHEUS is being implemented within the scope of the THERMIE program of the European Commission. As part of the project 221 houses in five countries (Sweden, Germany, Switzerland, France and Austria) were constructed to the Passive House standard.	The main objective of the CEPHEUS project is to cut heating energy consumption by at least 80 %, without costing more than conventional new housing.

M CUBE	CrossNational	M CUBE is an innovative smart product that allows to remotely monitor and control electricity consumption. It also provides customers with detailed statistics on the energy they have used and visualises the power consumption in 'Cash' and in kilowatts (kW) per hour, daily, monthly, per year.	The objectives that M CUBE covers are: -helping customers understand their electricity consumption; -providing solution for resource efficiency, electricity in particular; -improve inhabitant experience; -gain market share for an emerging economic sector; -create a product with high competitive advantage properties and added value for the company.
Värme i Villan (Heat in the House)	National	The Swedish Energy Agency started this campaign in 2002 to inform house owners in Sweden about alternative heating sources. In 2002 70% of Swedish small houses were heated with oil or electricity. The campaign was undertaken cooperatively between installers, the chimney sweep association, the Swedish Energy Agency and municipal energy advisers.	The purpose was to raise knowledge and awareness among house owners about sustainable heating alternatives, and to promote municipal energy advisory services.
"Energy advice in the Region of Stockholm"	Local	The project is a free service offered by the municipality in Stockholm. It provides tips and advice on how to reduce energy use and environmental impact. The advice is for free and includes information and face-to-face advice on how to decrease energy consumption, how to save money and about suitable technological options/solutions.	This project aims to provide energy advice for private households, companies (SMEs) and also housing corporations in the region of Stockholm in order to save energy and to foster renewable energy solutions.
SAVES (Students Achieving Valuable Energy Savings)	CrossNational	The project supports students in minimising their carbon footprint in their accommodation, promotes energy efficiency, and contributes to installing enduring good sustainability habits. It also highlights the significant benefits of smart meters for students.	reducing students' energy usage as well as their exposure to fuel poverty, saving quantifiable amounts of energy in student dormitories through energy saving behaviours (4.23 GWh); developing pro-environmental behaviours and energy-saving habits by students in higher education;

A Transnational Nordic Smart City Living Lab Pilot	CrossNational	The project focuses on energy saving solutions for individual households - inside houses and in transportation. The project aims to use existing knowledge on user-driven innovation methodologies and available technical solutions among partner networks.	increase the knowledge of Living Lab key characteristics and their indicators; innovate on technical energy solutions that are tested in real life settings; create higher visibility and innovation capacity among Nordic Living Lab actors and their partners and stakeholders by cross-border collaboration; share Living Lab knowledge and development of joint Living Lab resources
TOGETHER on the move - Energy Efficient Transport training for immigrants (TOGETHER)	CrossNational	TOGETHER will develop and implement energy efficient transport training for immigrants. The training will focus on providing new immigrants with advice on energy efficiency in transport as well as providing them with essential skills in how to travel using sustainable modes.	enhancing the quality of life of immigrants, facilitating social inclusion, conserving essential energy resources and promoting energy efficiency training and learning
Integration of Active Learning and Energy Monitoring with School Curriculum (ACTIVE LEARNING)	CrossNational	The project promoted active learning and energy monitoring as a tool for energy education among children aged 6-12 years. Apart from changing attitudes towards energy use among children, it aimed at short- and long-term energy savings in school buildings and private households.	Integrating the topics of energy efficiency, renewable energy and transport into the school curricula and testing a toolbox of selected materials in selected schools.
Creating Actions among Energy Conscious Children (KIDS4FUTURE)	CrossNational	The Kids4Future consortium consists of 10 partners from a good mix of European countries. The project started in January 2007 and will last for three years targeting minimum 20 pilot schools in each partner country with a common energy story, TV, events and websites for children presented under one brand and common visual profile. At the core of the action are a common platform and one brand.	The platform is a universal energy story, which aims to bring in new dimensions and create understanding and enthusiasm for the energy subject, a sustainable future, and the global energy challenges. A strong brand will facilitate recall and strengthen recognition across channels, activities and countries. Pillars corresponding to children's own arenas support the platform: school, TV, event and web.

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