



POWERPOOR

Empowering Energy Poor Citizens through Energy Cooperative Initiatives

WP3 Capacity Building and multilevel knowledge creation – Module 1 – POWER-TARGET and POWER-ACT

Eleni Kanellou, George Konstantopoulos- NTUA, Greece
17th of March 2021



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PART IV: The POWER-TARGET and POWER-ACT tool

The POWERPPOR Toolkit

The POWER-TARGET Tool

The POWER-ACT Tool

Hands on exercises on how to use POWERTARGET and POWERACT

The POWERPOOR toolkit

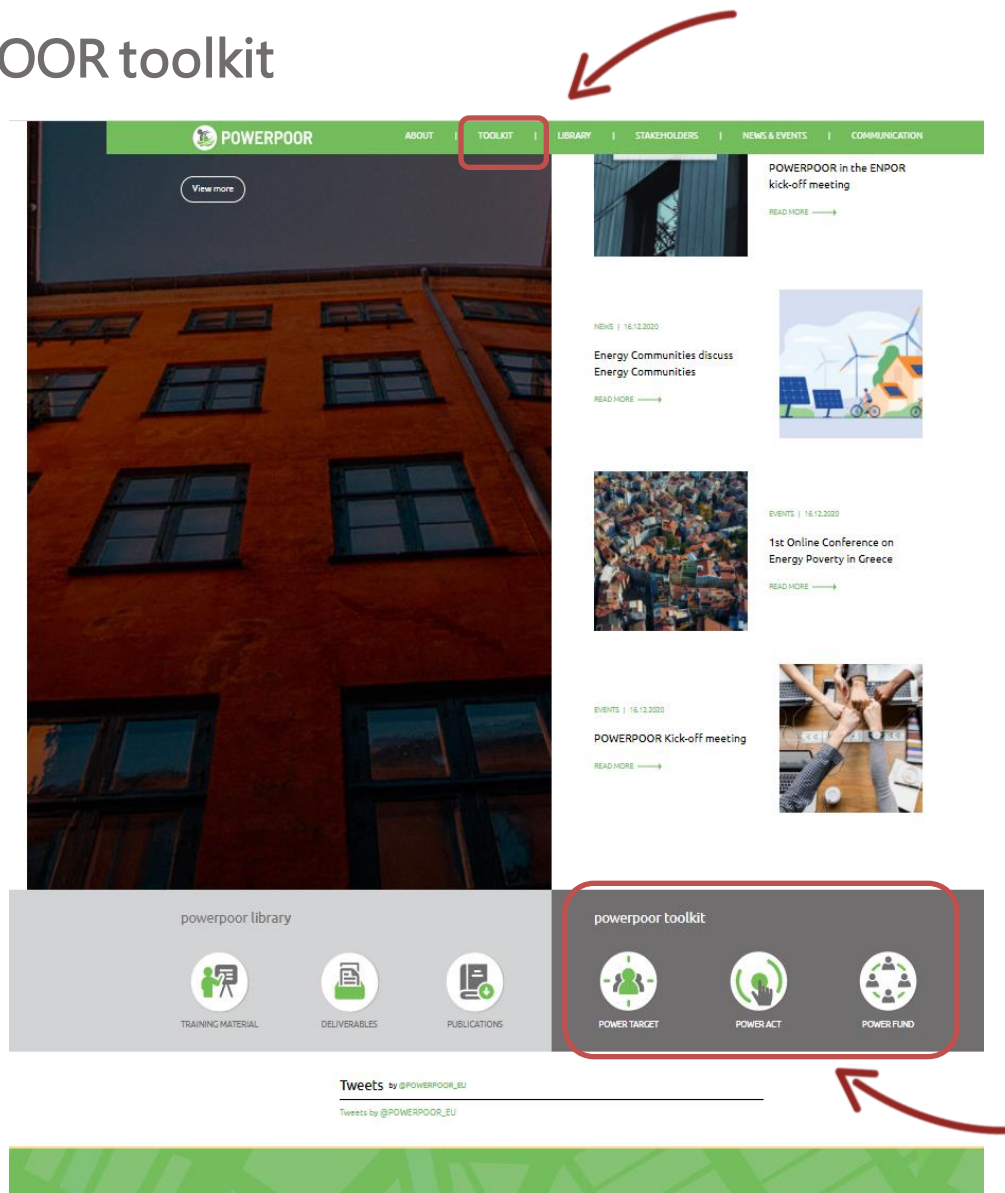


- ✓ Integration of the POWERPOOR tools namely: the POWER-TARGET, POWER-ACT and POWER-FUND tool in one page.
- ✓ Short description of what the tools do and links to the POWERPOOR website
- ✓ A dashboard with user information

Finding the POWERPOOR toolkit

Access the tool via
the website

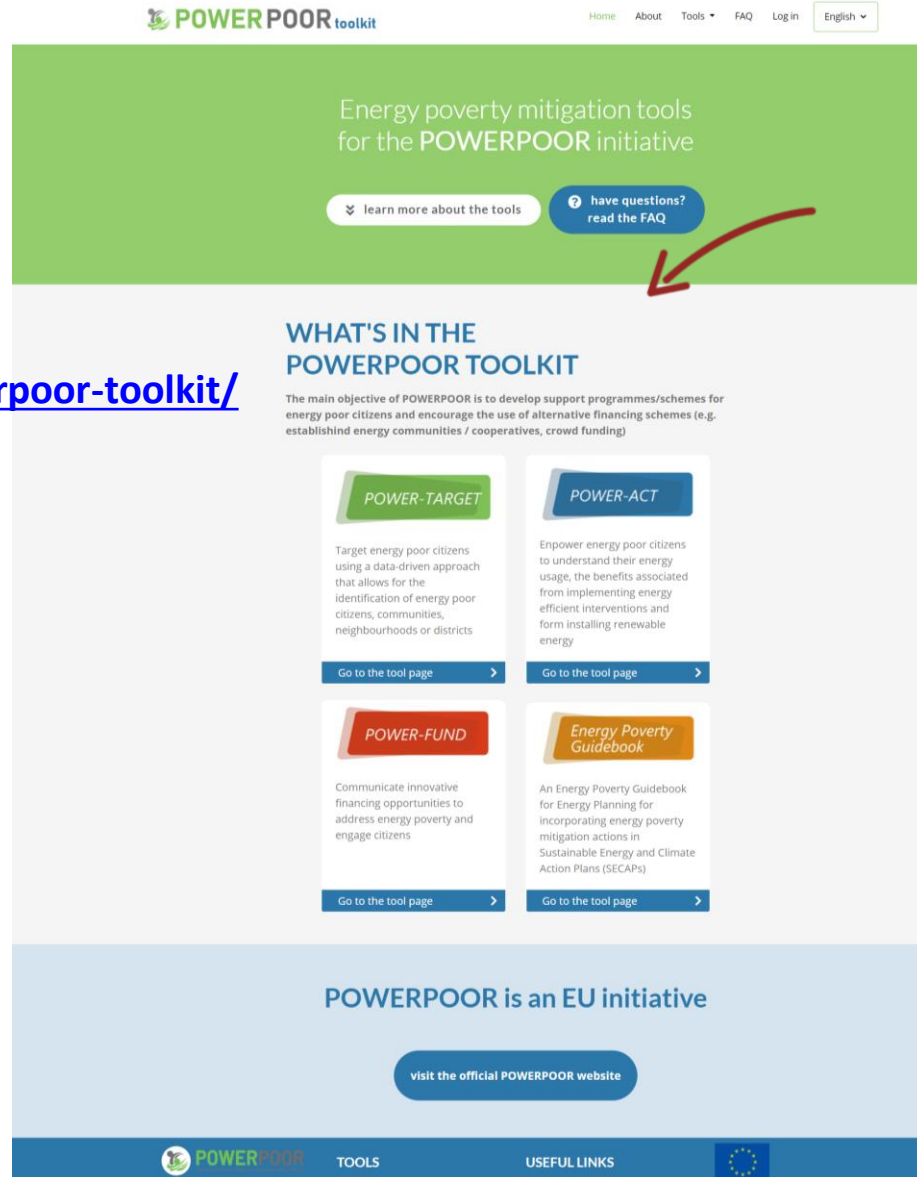
www.powerpoor.eu



Finding the POWERPOOR toolkit

OR Access the tool via
the stand-alone toolkit

<http://powerpoor.epu.ntua.gr/powerpoor-toolkit/>



The screenshot shows the POWERPOOR toolkit website. At the top, there is a navigation bar with links for Home, About, Tools, FAQ, Log in, and a language dropdown set to English. Below the navigation bar is a green banner with the text "Energy poverty mitigation tools for the POWERPOOR initiative". Underneath the banner are two buttons: "learn more about the tools" and "have questions? read the FAQ". A red arrow points from the "have questions? read the FAQ" button down to the "WHAT'S IN THE POWERPOOR TOOLKIT" section. This section features a heading and a paragraph about the toolkit's objective. Below this are four tool cards: POWER-TARGET, POWER-ACT, POWER-FUND, and Energy Poverty Guidebook. Each card has a brief description and a "Go to the tool page" button. At the bottom of the page, there is a blue banner stating "POWERPOOR is an EU initiative" with a button to "visit the official POWERPOOR website". The footer contains the POWERPOOR logo, "TOOLS", "USEFUL LINKS", and the European Union flag.

POWERPOOR toolkit

Home About Tools FAQ Log in English

Energy poverty mitigation tools
for the POWERPOOR initiative

learn more about the tools have questions?
read the FAQ

WHAT'S IN THE
POWERPOOR TOOLKIT

The main objective of POWERPOOR is to develop support programmes/schemes for energy poor citizens and encourage the use of alternative financing schemes (e.g. establishing energy communities / cooperatives, crowd funding)

POWER-TARGET

Target energy poor citizens using a data-driven approach that allows for the identification of energy poor citizens, communities, neighbourhoods or districts

Go to the tool page

POWER-ACT

Empower energy poor citizens to understand their energy usage, the benefits associated from implementing energy efficient interventions and form installing renewable energy

Go to the tool page

POWER-FUND

Communicate innovative financing opportunities to address energy poverty and engage citizens

Go to the tool page

Energy Poverty Guidebook

An Energy Poverty Guidebook for Energy Planning for incorporating energy poverty mitigation actions in Sustainable Energy and Climate Action Plans (SECAPs)

Go to the tool page

POWERPOOR is an EU initiative

visit the official POWERPOOR website

POWERPOOR TOOLS USEFUL LINKS



Registering / Login

Choose your preferred
Language

[Home](#)[About](#)[Tools ▾](#)[FAQ](#)[Log in](#)[English ▾](#)

Log In

[Forgot your password?](#)[Login >](#)

Don't have an account yet? [Register](#)

!!! ...please **Register**

if you are a new user in the POWERPOOR
toolkit



Registering / Login

Register

☒ Personal Account ☐ Business Account

Email*

 Enter your email

Language*

 English ▾

Country*

 Enter country ▾

City*

 Enter city

Password*

Enter password 

Repeat Password*

Enter password again 

* Mandatory fields

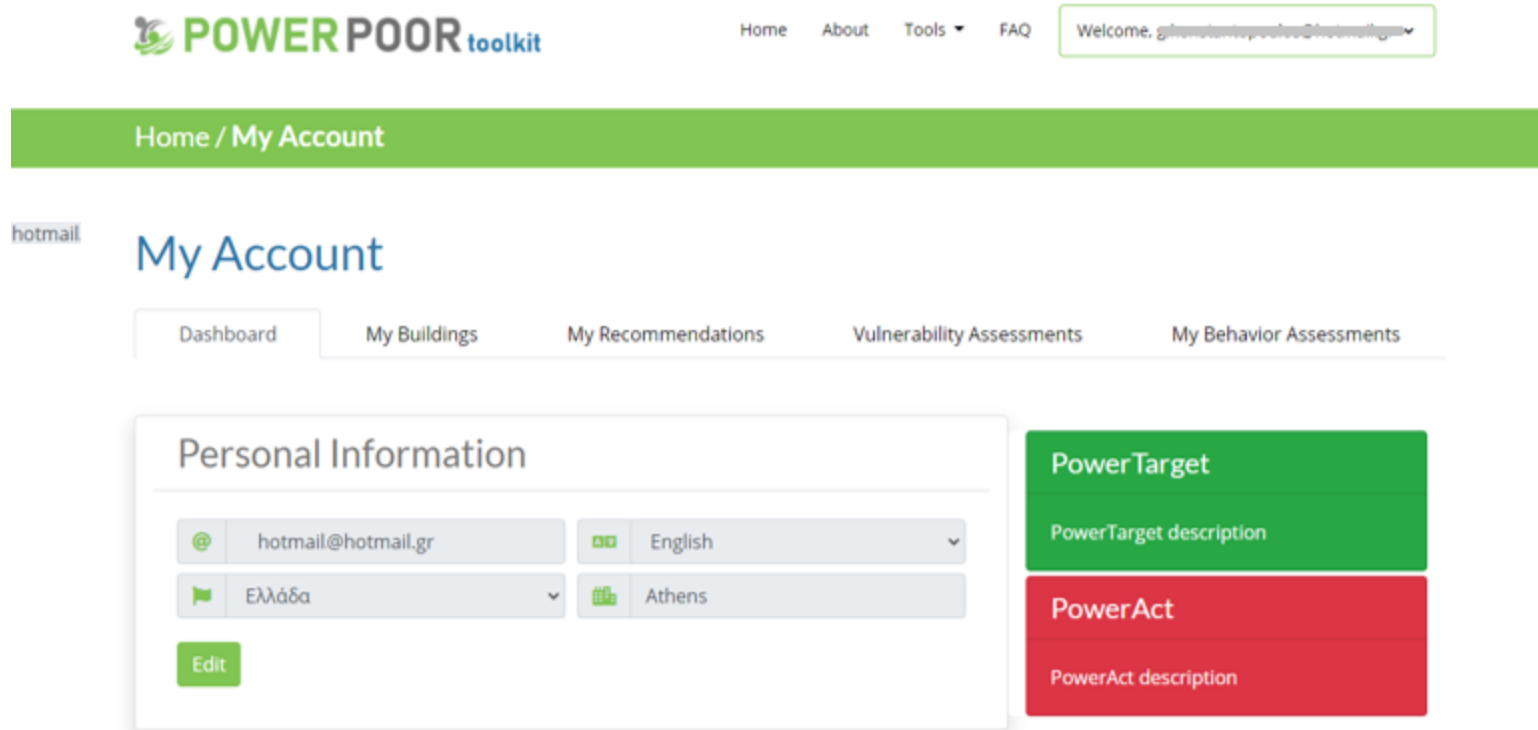
Sign up >

Already have an account? [Log in](#)

All sections filled in?
Click **Sign up** button



My account page



POWERPOOR toolkit Home About Tools ▼ FAQ Welcome, [ghenadie.popa@powerpoor.eu](#) ▼

Home / My Account

hotmail

My Account

Dashboard My Buildings My Recommendations Vulnerability Assessments My Behavior Assessments

Personal Information

✉	hotmail@hotmail.gr	🌐	English ▼
🇬🇷	Ελλάδα ▼	🏠	Athens

Edit

PowerTarget

PowerTarget description

PowerAct

PowerAct description



My account page

Different buildings can be added by the same user

Home / My Account

My Account

Dashboard My Buildings My Recommendations Vulnerability Assessments My Behavior Assessments

Add building +

You have not added any buildings yet.

Add Building

Country*

City*

Area (m²)*

Type of building*

Number of floors*

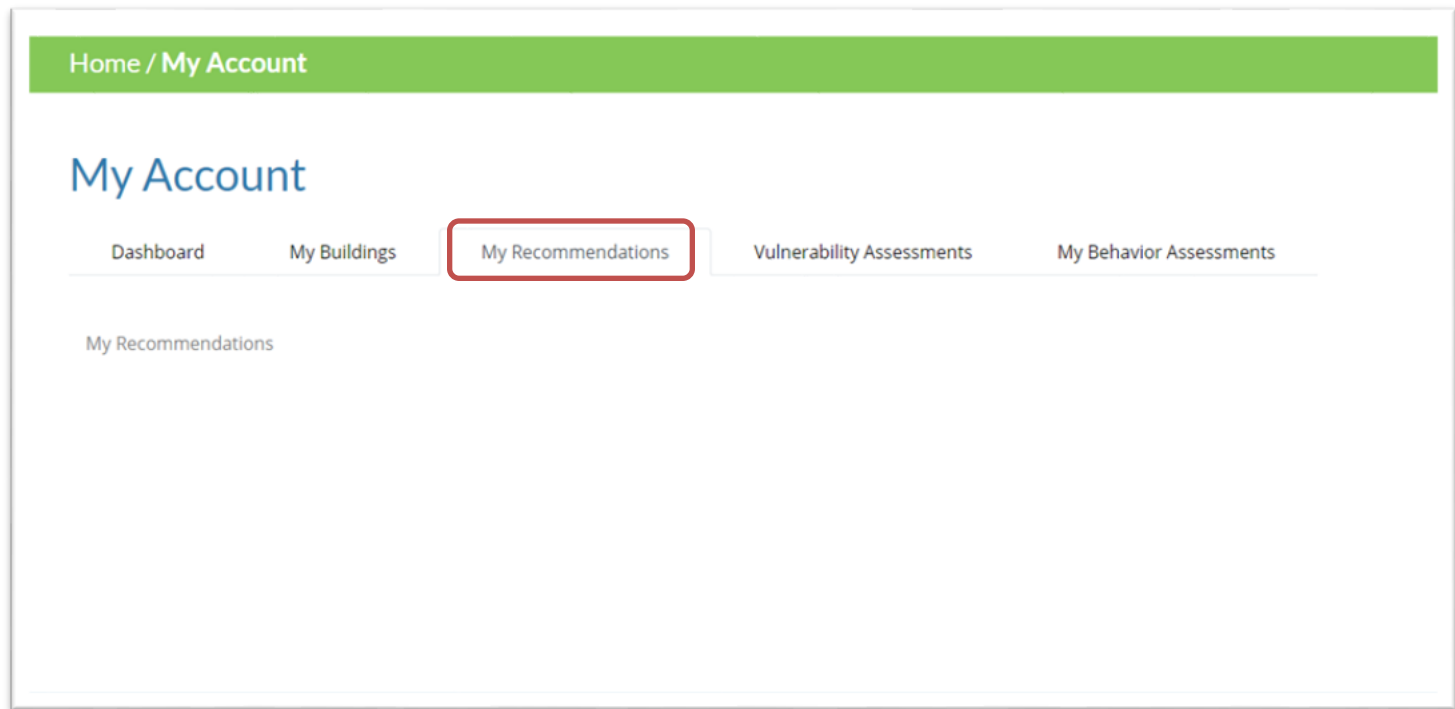
Build Year*

* Mandatory fields

Submit >



My account page



My account page

Home / My Account

My Account

Dashboard

My Buildings

My Recommendations

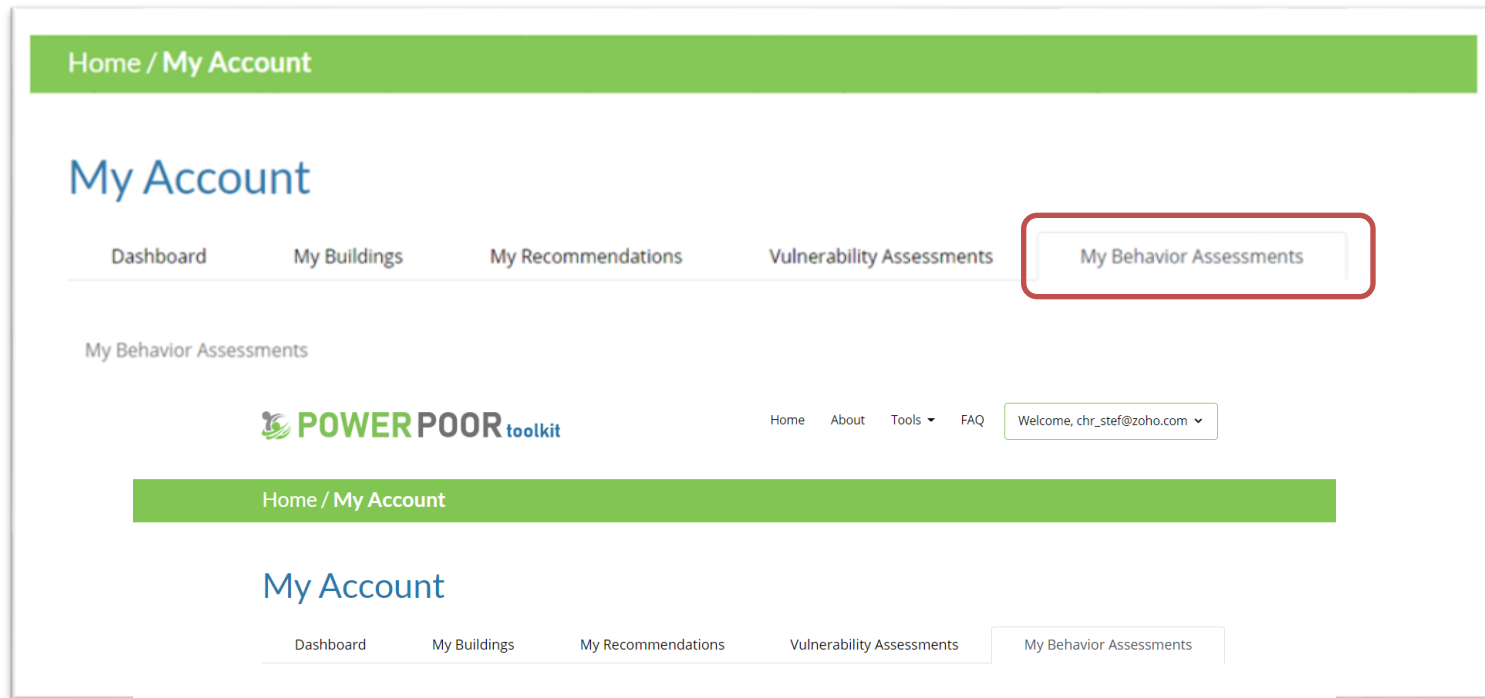
Vulnerability Assessments


My Behavior Assessments


Survey	Delete
Area (m ²)	50.0
Electricity Supplier	DEI
Annual Consumption	3000.0
Annual Cost of Electricity Bill	480.0
Annual Heating Consumption	700.0
Annual Heating Cost	500.0
Ratio	9.59



My account page



Assessment			Details	Delete
Building (Details)	Place	Greece, Marousi		
	Details	Apartment, 106.0m ²		
Area (m ²)		106.0		
Heating fuel		Natural Gas		
Air-conditioning Operation		In winter and summer		
Annual Heating Consumption (kWh)		1500.0		
Score		16.0 		

Assessment			Details	Delete
Building (Details)	Place	Greece, Marousi		
	Details	Apartment, 106.0m ²		
Area (m ²)		106.0		
Heating fuel		Natural Gas		
Air-conditioning Operation		In winter and summer		
Annual Heating Consumption (kWh)		1000.0		
Score		10.0 		



The POWER TARGET tool

POWER TARGET



- ✓ Identify and target energy poor citizens using a data-driven approach that facilitates the identification of energy poor citizens, communities, neighborhoods or districts

Using POWER TARGET tool

My account page

The screenshot displays the 'My Account' page of the POWERPOOR toolkit. At the top, the logo 'POWERPOOR toolkit' is on the left, and navigation links 'Home', 'About', 'Tools', and 'FAQ' are in the center. A red box highlights the 'Tools' link, with a red arrow pointing to it from above. To the right is a user welcome message. Below the navigation is a green breadcrumb bar reading 'Home / My Account'. The main content area has a 'hotmail' user indicator and the title 'My Account'. A horizontal menu contains 'Dashboard', 'My Buildings', 'My Recommendations', 'Vulnerability Assessments', and 'My Behavior Assessments'. A red arrow points to 'My Behavior Assessments'. On the left, the 'Personal Information' section shows fields for email, language, country, and city, with an 'Edit' button. On the right, a sidebar contains two tool cards: a green 'PowerTarget' card and a red 'PowerAct' card, both with description links. A red box highlights these two cards, with a red arrow pointing to them from the right.

POWERPOOR toolkit

Home About Tools FAQ Welcome, g...@hotmail.gr

Home / My Account

hotmail My Account

Dashboard My Buildings My Recommendations Vulnerability Assessments My Behavior Assessments

Personal Information

hotmail@hotmail.gr English Ελλάδα Athens Edit

PowerTarget
PowerTarget description

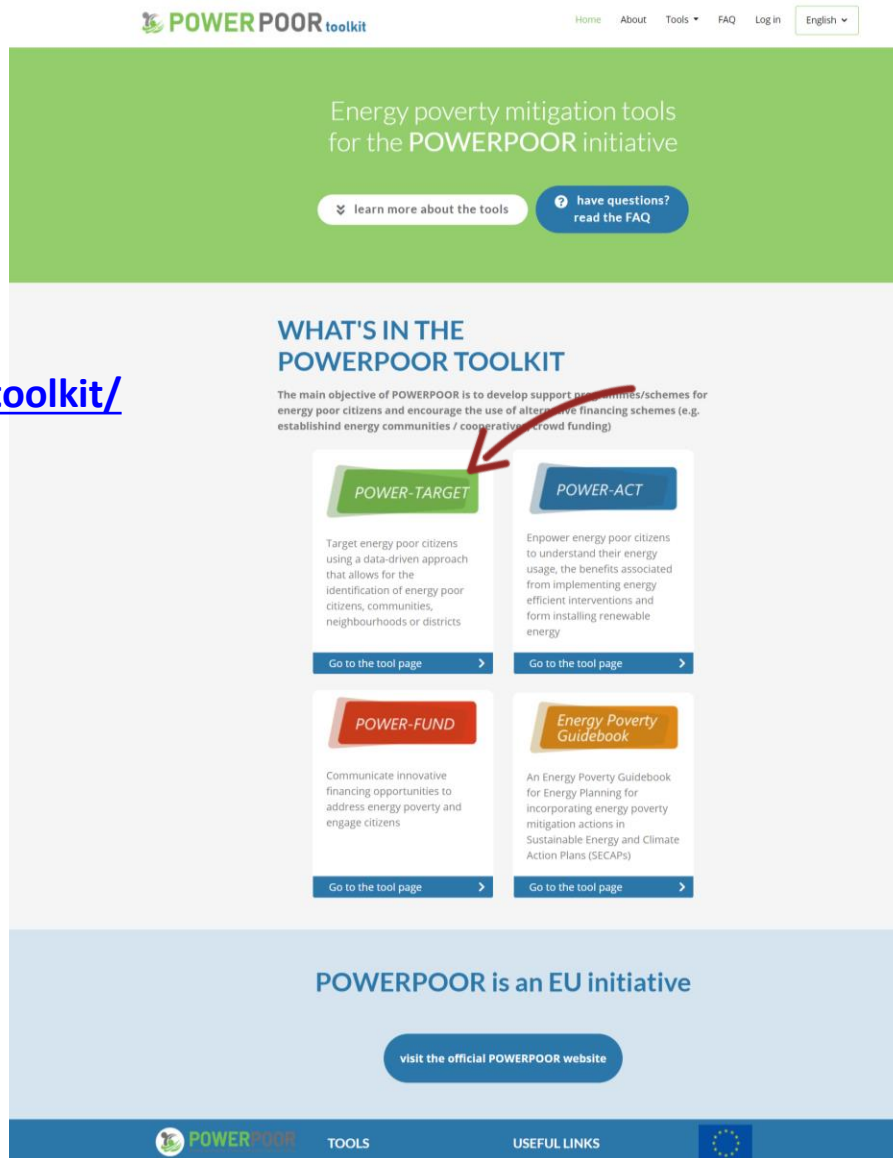
PowerAct
PowerAct description



Finding the POWERPOOR toolkit

OR Access the tool via
the toolkit homepage

<http://powerpoor.epu.ntua.gr/powerpoor-toolkit/>



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POWERPOOR toolkit

Home About Tools FAQ Log in English

Energy poverty mitigation tools
for the POWERPOOR initiative

learn more about the tools have questions?
read the FAQ

WHAT'S IN THE POWERPOOR TOOLKIT

The main objective of POWERPOOR is to develop support communities/schemes for energy poor citizens and encourage the use of alternative financing schemes (e.g. establishing energy communities / cooperative / crowd funding)

POWER-TARGET
Target energy poor citizens using a data-driven approach that allows for the identification of energy poor citizens, communities, neighbourhoods or districts
Go to the tool page

POWER-ACT
Empower energy poor citizens to understand their energy usage, the benefits associated from implementing energy efficient interventions and form installing renewable energy
Go to the tool page

POWER-FUND
Communicate innovative financing opportunities to address energy poverty and engage citizens
Go to the tool page

Energy Poverty Guidebook
An Energy Poverty Guidebook for Energy Planning for incorporating energy poverty mitigation actions in Sustainable Energy and Climate Action Plans (SECAPs)
Go to the tool page

POWERPOOR is an EU initiative

visit the official POWERPOOR website

POWERPOOR TOOLS USEFUL LINKS



Using POWER TARGET tool

[Home](#)[About](#)[Tools ▾](#)[FAQ](#)[Log in](#)[English ▾](#)

Welcome to PowerTarget

Is your energy spending high?
Find help to decrease it now!

[> Start Survey](#)[? have questions?
read the FAQ](#)

How it Works?

- 01** Complete the survey
- 02** Receive assessment of your energy costs
- 03** Receive recommendations to decrease your energy costs



Power TARGET survey

3 sections to be filled

Home / PowerTarget / Survey

Personal Details

Country

Greece

City

Athens

Income Information

Annual Income*

Enter annual income

€

Age*

Enter your age

Number of dependent children*

Enter number of dependent children

Marital status*

Select marital status



Electricity Consumption

☐ I only use electricity to heat/cool my house

Property Size (m²)*

Enter property size (m²)

m²

Energy Supplier

Enter energy supplier

Annual Consumption (kWh)*

Enter annual consumption (kWh)

kWh

Annual Cost of Electricity Bill (€)*

Enter annual cost of electricity bill (€)

€

My air conditioning thermostat is set at:

In winter:

Degrees

Celsius

In summer:

Degrees

Celsius

Heat Consumption

Heating fuel*

Select heating fuel



Annual Consumption*

Enter annual consumption

Annual Cost of Heating Bill (€)*

Enter annual cost of heating bill (€)

€

My thermal comfort during winter is:*

Select thermal comfort



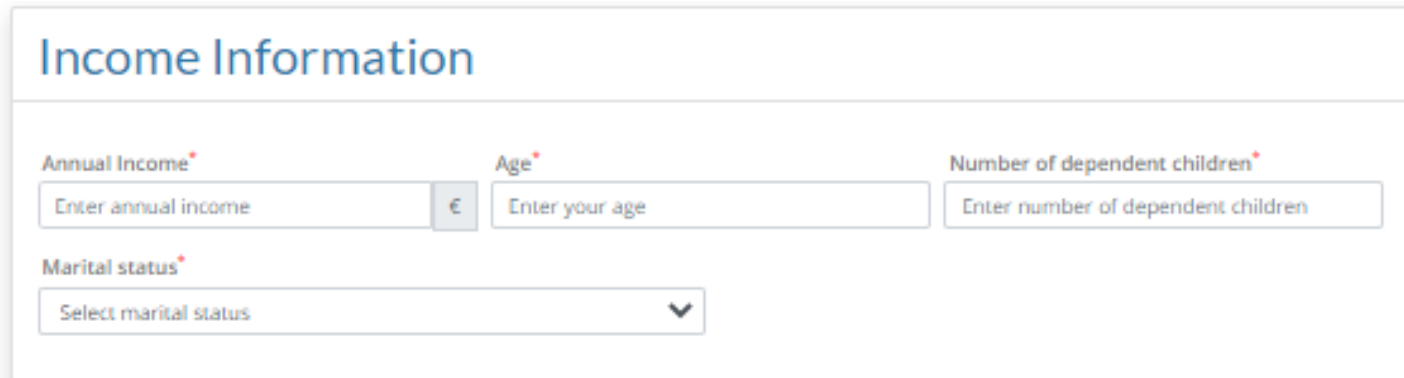
* Mandatory fields



Power TARGET survey

Section 1 - income information

1



Income Information

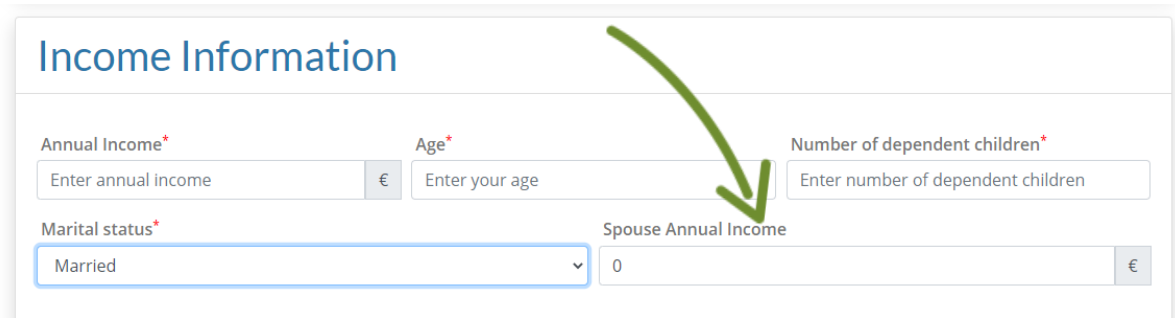
Annual Income* €

Age*

Number of dependent children*

Marital status*

...if married, spouse's annual income to be added here



Income Information

Annual Income* €

Age*

Number of dependent children*

Marital status*

Spouse Annual Income €



2

1000

ΔΕΗ Α.Ε.
Χολοτσινούδη 30, 104 32 Αθήνα,
Α.Φ.Μ. 090000045, Α.Δ.Υ. ΦΑΕ ΑΒΗΗΝΩΝ
del.gr

ΕΥΤΥΧΗΡΗΤΗ ΠΕΛΑΤΩΝ ΔΕΗ

☎ 800 900 1000 (ΔΩΡΕΑΝ)

ΕΥΤΥΧΗΡΗΤΗ ΔΕΛΤΑ

11500
2117900500
(Πληροφορίες) Βλάβες/Καταστροφές

☎ ΚΑΤΑΣΤΗΝΑ ΚΟΡΩΠΟΥ
ΒΑΣΙΛΕΥΣΗ 259 ΥΠΟΚΛΗΝΗ 194 00

183 170098

ΠΑΠΑΔΟΠΟΥΛΟΥ ΜΑΡΙΑ
ΔΕΛΦΩΝ 99
888 88 ΚΑΡΔΙΤΣΑ

Κωδικός ηλεκτρονικής πληρωμής

RF959077380008212345XXXXX

0000002231.01

Εκκαθαριστικός λογαριασμός

Τιμολόγος: Γ1 Οικιακό Τιμολόγιο

Διεύθυνση ακινήτου: ΟΑΣΟΥ 14
121 35 ΓΕΡΑΚΑΣ

Επομένη καταμίσθωση:

Αριθμός παρωχής: 123456789-012

Χρεώσεις προμήθειας ΔΕΗ 138, 27 €

Ρυθμιζόμενες χρεώσεις 83, 05 €

Ένταξη Κατανάλωσης -37, 07 €

Διάρθρωση - Δίκτυο - ΕΡΓ 22, 39 €

ΦΠΑ 24, 36 €

Προσχεσμένο Ανεξάρτητο Παρόν

*Αγοράστε το εάν έχει πληρωθεί

*31.000 €

ΓΙΟΣ ΠΑΝΩΡΗΣ

*231,00€

ΕΙΣΦΟΡΗΝ ΕΔΕ

04/10/2018

Λογαριασμός εφορλούμενος από την **EUROBANK**

Σκανάρτε
για άμεση εφόρληση

Η καταπόλωση σας

Κατανάλωση Ηλεκτρικής Ενέργειας 1445 kWh

Περίοδος Κατανάλωσης 11/05/2018 - 11/09/2018

Ημέρες 124

Ημέλια Έλασση 11/09/2018

ΑΠΑ Λογαριασμού 1111111111

W

Power TARGET survey

Section 3 – heat consumption

3

Heat Consumption

Heating fuel*
Select heating fuel

Annual Consumption*
0

Annual Cost of Heating Bill (€)*
0 €

My thermal comfort during winter is:*
Select thermal comfort

* Mandatory fields

Heating fuel*

Select heating fuel

Select heating fuel

Natural Gas

Oil

Wood

Pellet

Propane

District Heating

Submit >

All sections filled?
Click **SUBMIT** button

My thermal comfort during winter is:*

My home is sufficiently warm through winter

Select thermal comfort

I consistently feel cold in my home

I sometimes feel cold in my home

My home is sufficiently warm through winter



Power TARGET survey Results...



Home About Tools ▾

Home / PowerTarget / Survey / Results

Classification according to
energy spendings to income
ratio is given.

Dark red (very high)

Red (high)

Yellow (medium)

Green (low)

Results



Yellow classification

You could save more of your income by implementing small changes.

Proposed Actions



Apply best practices to decrease
energy consumption



Join an Energy Community as
protected member



Programs to improve energy
efficiency of your home



The POWER ACT tool

POWER ACT



- ✓ Empower energy poor citizens to understand their energy usage, the benefits associated with implementing energy efficiency interventions and with installing renewable energy

My account page

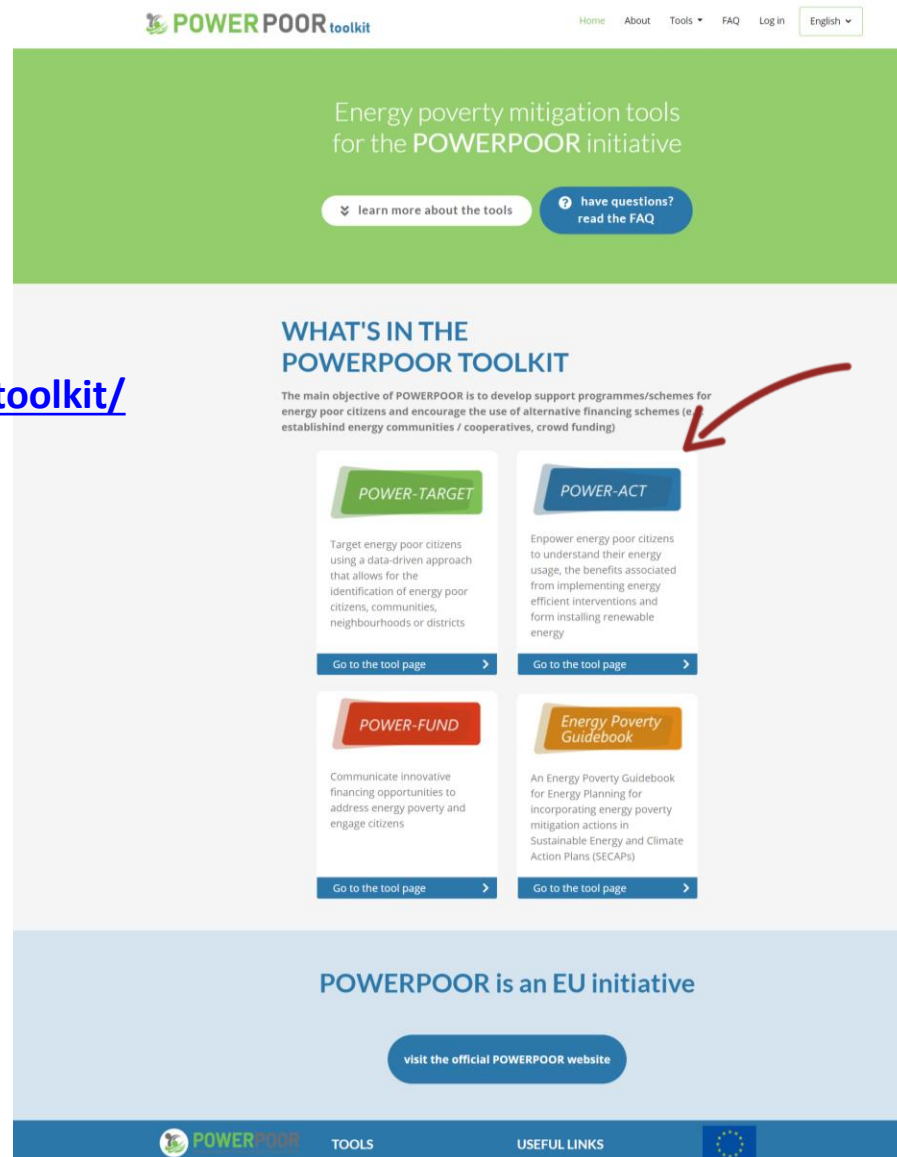
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POWERPOOR toolkit

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visit the official POWERPOOR website

POWERPOOR TOOLS USEFUL LINKS



Using POWER ACT tool



[Home](#) [About](#) [Tools](#) [FAQ](#)

Welcome, [g...@powerpoor.eu](#)

Welcome to PowerAct

Assess your energy consumption
at home and save!

[> Start Assessment](#)

[? Have questions?
Read the FAQ](#)

How it Works?

- 01** Take a short survey regarding the consumption in your home
- 02** Receive personalized suggestions for single behavior changes
- 03** Participate in funding programs for efficiency improvements



Power ACT survey

4 sections to be filled

1

2

3

4

Building Selection

Place	ES&Ss, AGH&A
Details	85 Gm ² , Apartment

Building Information

Property Size (m ²) [*] <input type="text" value="80"/>	Electricity Supplier [*] <input type="text" value="Enter electricity supplier"/>
Number of household members [*] <input type="text" value="Enter number of household members"/>	Cumulative hours spent at home / day [*] <input type="text" value="Enter cumulative hours spent at home / day"/> <small>Note: A household with 3 members that each spends 10 hours at home on average, adds down 30 hours/day</small>

Heating

Heating fuel [*] <input type="text" value="Select heating fuel"/>	Heating thermostat [*] <input type="text" value="I set my heating thermostat at"/> <input type="button" value="Celsius"/>
Last year consumption [*] <input type="text" value="Last year I consumed"/>	Last boiler service [*] <input type="text" value="I serviced my boiler"/> <input type="button" value="years ago"/>
When sat near a closed window in winter [*] <input type="text" value="Select"/>	

Air-conditioning Operation

Do you use an electric air-condition unit? [*] <input type="text" value="Select"/>	I last changed my air-condition air filter [*] <input type="text" value="I last changed my air-condition air filter"/>
My air conditioning thermostat is set at: in winter [*] <input type="text" value="Degrees"/> <input type="button" value="Celsius"/>	In summer [*] <input type="text" value="Degrees"/> <input type="button" value="Celsius"/>

Electric Appliances

For my lighting appliances I use [*] <input type="text" value="Select"/>	To heat water I use [*] <input type="text" value="Select"/>
Electric appliances that I use often [*] <input type="text" value="Select"/>	

^{*} Mandatory fields



Power ACT survey

Section 1 - Building information

...choose the preferred building



Building Selection

+

Add new

Place	Ελλάδα, ΑΘΗΝΑ
Details	80.0m², Apartment

Choose

Building Information

Property Size (m²)*
 m²

Electricity Supplier*

Number of household members*

Cumulative hours spent at home / day*

Hint: A household with 3 members that each spends 14 hours at home on average, note down 42 hours/day

1



Power ACT survey

Section 2 – heating

Heating fuel*

Select heating fuel

Select heating fuel

Natural Gas

Oil

Wood

Pellet

Propane

District Heating

2

Heating

Heating fuel*

Select heating fuel

Heating thermostat*

I set my heating thermostat at

Celsius

Last year consumption*

Last year I consumed

Last boiler service*

I serviced my boiler

years ago

When sat near a closed window in winter:*

Select

! Qualitative estimation about thermal comfort

When sat near a closed window in winter:*

Select

Select

I feel considerably colder than in other areas of my home

I feel slightly colder than in other areas of my home

I do not notice any difference in my thermal comfort

According to the selected fuel
e.g. litres for oil



Power ACT survey

Section 3 – air conditioning operation

3

Air-conditioning Operation

Do you use an electric air-condition unit?*

Select

Do you use an electric air-condition unit?*

Select

Select

Only in summer

In winter and summer

I do not use air condition

I last changed my air-condition air filters:*

I last changed my air-condition air filters:

My air conditioning thermostat is set at:

In winter:*

Degrees

Celsius

In summer:*

Degrees

Celsius



Power ACT survey

Section 4 – electric appliances

4

Electric Appliances

For my lighting appliances I use:*

Select

Electric appliances that I use often:*

Select

* Mandatory fields

For my lighting appliances I use:*

Select

Select

Halogen light bulbs

Both halogen and LED bulbs

LED bulbs

To heat water I use:*

Select

To heat water I use:*

Select

Select

Electric water boiler

Electric water boiler and solar boiler

Natural gas boiler and solar boiler

Natural gas boiler only

Electric appliances that I use often:*

Select

Select

Remain in standby mode

Are turned off when not used

Are sometimes kept in standby mode when not used

Submit >

All sections filled in?
Click the **SUBMIT** button



Power ACT survey Results...

Results



Green classification
Your PowerAct score is: 9.0

Great job. Your energy consumption habits are on point. There is always room for improvement though. Read our suggestions below.

Classification according to energy consumption habits

Proposed Actions

Heating

- Consider switching to natural gas heating if possible as it is 20% more efficient.
- Schedule a service appointment with a boiler technician to improve efficiency of your heating installation. This could help you reduce your bill up to 15% and increase the usable life of your boiler.

Air Conditioning

Electric Appliances

A number of actions are being proposed, according to the calculated **PowerAct** score.





Exercise I

Reading a bill

#1 - Greek provider



Reading a bill

#1 – Greek provider

1. Electricity bill
2. Total kWh consumed for the period of reference
3. Period of reference

Tip!

To calculate **total annual** electricity bill and kWh, please add the respective values for the period of the latest year.


For the selected supplier (DEI), the period of reference is **4 months**

So, using the latest 3 bills we can calculate the total annual electricity cost and kWh.

ΔΕΗ Α.Ε.
Χαλκοκονδύλη 30, 104 32 Αθήνα,
Α.Φ.Μ. 090000045, Δ.Ο.Υ. ΦΑΕ ΑΘΗΝΩΝ
dei.gr

ΕΞΥΠΗΡΕΤΗΣΗ ΠΕΛΑΤΩΝ ΔΕΗ
800 900 1000 (ΔΩΡΕΑΝ)
ΚΑΤΑΣΤΗΜΑ ΚΟΡΩΠΙΟΥ
Β.ΚΩΝ/ΝΟΥ 250-Γ.ΚΟΥΛΟΧΕΡΗ 194 00


ΕΞΥΠΗΡΕΤΗΣΗ ΔΕΔΔΗΕ
11500
2111900500
Πληροφορίες | Βλάβες |
Καταμέτρηση



ΠΑΠΑΔΟΠΟΥΛΟΥ ΜΑΡΙΑ
ΔΕΛΦΩΝ 99
888 88 ΚΑΡΔΙΤΣΑ

183 170098

Κωδικός ηλεκτρονικής πληρωμής
RF959077380008212345XXXXX


000000231,00 1


Εκκαθαριστικός λογαριασμός

Τιμολόγιο:	Γ1 Οικιακό Τιμολόγιο
Διεύθυνση ακινήτου:	ΘΑΣΟΥ 14 121 35 ΓΕΡΑΚΑΣ
Επόμενη καταμέτρηση:	
Αριθμός παροχής	1 23456789-01 2

Χρεώσεις προμήθειας ΔΕΗ	138 , 27€
Ρυθμιζόμενες χρεώσεις	83 , 05€
Έναντι Κατανάλωσης	- 37 , 07€
Διάφορα - Δήμος - ΕΡΤ	22 , 39€
ΦΠΑ	24 , 36€
Προηγούμενο Ανεξόφλητο Ποσό	
*Αγνοήστε το εάν έχει πληρωθεί	
Συνολικό ποσό πληρωμής	*231 , 00€

ΠΟΣΟ ΠΛΗΡΩΜΗΣ
***231,00€**

ΕΞΟΦΛΗΣΗ ΕΩΣ
04/10/2018
Λογαριασμός εξοφλούμενος από την **EUROBANK**


Σκανάρετε
για άμεση εξόφληση

Η κατανάλωσή σας

Κατανάλωση Ηλεκτρικής Ενέργειας	1445 kWh
Περίοδος Κατανάλωσης	11/05/2018 - 11/09/2018
Ημέρες	124
Ημ/νία Έκδοσης	11/09/2018
Α/Α Λογαριασμού	111111111



Exercise II

Reading a bill

#2 - German provider



Reading a bill

#2 – German provider

1. Electricity bill
2. Total kWh consumed for the period of reference

!

Here, the **total annual** electricity bill is given.

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Mouse over individual terms and click on them to obtain further information.

VATTENFALL

Vattenfall Europe Sales GmbH, Postfach 44 06 44, 12006 Berlin

Herrn
Max Mustermann
Finsterwalder Str. 80
13435 Berlin

8



Verwalten Sie Ihren Vertrag jederzeit selbst. Hier ist Ihr ganz persönlicher, verschlüsselter Link direkt in Ihre Online Service Welt:
mein.vattenfall.de/abcdefgi5

Ihre Rechnung für den 21.02.2018 - 26.02.2019

1

Vertragskonto:	836 000 000 000 (bitte bei Zahlungen und Schriftverkehr immer Vertragskonto angeben)
Zählernummer:	12 345 678
Lieferstelle:	Finsterwalder Str. 80, 5. Etage, Links 13435 Berlin
Rechnungsnummer:	710 000 000 000 vom 27.02.2019

Sehr geehrter Herr Mustermann,

für die Energieversorgung haben wir Ihre Rechnung erstellt. Vielen Dank für Ihr Vertrauen.

2

Ihr aktueller Stromtarif Easy24 Strom

3

Ihr Stromverbrauch ist gestiegen.
Ihr Verbrauch in diesem Abrechnungszeitraum: 7,02 kWh/Tag, das waren 2.605 kWh in 371 Tagen
Ihr Verbrauch im letzten Abrechnungszeitraum: 6,45 kWh/Tag, das waren 2.310 kWh in 358 Tagen

4

Ihre Stromkosten	791,23 EUR
Ihre geleisteten Zahlungen	-726,00 EUR

5

Ihr Treue-Bonus	-50,00 EUR
Ihr Rechnungsbetrag	15,23 EUR

6

Der Rechnungsbetrag von 15,23 EUR ist am 15.03.2019 zu zahlen und wird wie vereinbart abgebucht.

Vattenfall Europe Sales GmbH

Geschäftsstelle
Chausseestr. 23
10115 Berlin

Kundenzentrum
Besucheranschrift
Markstraße 36, 13409 Berlin
U8, Bf, Franz-Neumann-Platz
Mo bis Fr 9-18 Uhr

Datum
27.02.2019

Unsere Zeichen
Kundenservice

Service-Telefon
030 657 988 000
Mo bis Fr 8-18 Uhr

Telefax Durchwahl
030 267 119 41410

E-Mail
www.vattenfall.de/kontakt

Bankverbindung
Landesbank Hessen-Thüringen
IBAN
DE93 5005 0000 0090 0851 35
BIC HELA DEFF XXX

Seite/ Umfang
1/5

Anlagen
Stromkennzeichnung

www.vattenfall.de

Vorsitzender des Aufsichtsrates
Martijn Hagens

Geschäftsführer
Rainer Wittenberg
Fabian Hagmann

Sitz der Gesellschaft
Hamburg

Handelsregister
Amtsgericht Hamburg
HRB 87512

USt-IdNr.
DE 813577496

Reading a bill

#2 – German provider

1. Electricity bill
2. Total kWh consumed for the period of reference
3. Period of reference

For the selected supplier (VATTENFALL), the period of reference is 12 months. So, the total annual electricity cost and kWh are given.

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Datum
27.02.2019

Seite/Umfang
2/5

Vertragskonto
836 000 000 000

Wir freuen uns, mit unserer Energie an Ihrer Seite zu stehen!

Aktuelle Informationen zu Strom und Gas von Vattenfall finden Sie unter www.vattenfall.de. Zum Strom und Kosten sparen besuchen Sie dort auch unsere neue Infowelt Energie.

Mit freundlichen Grüßen
Ihr Serviceteam der Vattenfall Europe Sales GmbH

Nach den gesetzlichen Bestimmungen sind wir zu folgenden Hinweisen verpflichtet:

Informationen zum Energiesparen für Sie:
Informationen zu Anbietern von wirksamen Maßnahmen zur Energieeffizienzverbesserung und Energieeinsparung sowie ihren Angeboten finden Sie auf einer bei der Bundesstelle für Energieeffizienz (BfEE) öffentlich geführten Anbieterliste unter bfee-online.de.

Weitere Informationen zum Energiesparen erhalten Sie auch auf folgenden Internetseiten: vattenfall.de/infowelt-energie, verbraucherzentrale-energieberatung.de, dena.de/themen-projekte/energieeffizienz

Erläuterungen zu Ihrer Stromrechnung

9

Ihre geleisteten Zahlungen

	Nettobetrag	USt.-Betrag	USt.-Satz	Bruttobetrag
Zahlungseingang vom 16.04.2018	55,46 EUR	10,54 EUR	19,0 %	66,00 EUR
Zahlungseingang vom 15.05.2018	55,46 EUR	10,54 EUR	19,0 %	66,00 EUR
Zahlungseingang vom 15.06.2018	55,46 EUR	10,54 EUR	19,0 %	66,00 EUR
Zahlungseingang vom 16.07.2018	55,46 EUR	10,54 EUR	19,0 %	66,00 EUR
Zahlungseingang vom 16.08.2018	55,46 EUR	10,54 EUR	19,0 %	66,00 EUR
Zahlungseingang vom 17.09.2018	55,46 EUR	10,54 EUR	19,0 %	66,00 EUR
Zahlungseingang vom 15.10.2018	55,46 EUR	10,54 EUR	19,0 %	66,00 EUR
Zahlungseingang vom 15.11.2018	55,46 EUR	10,54 EUR	19,0 %	66,00 EUR
Zahlungseingang vom 17.12.2018	55,46 EUR	10,54 EUR	19,0 %	66,00 EUR
Zahlungseingang vom 15.01.2019	55,46 EUR	10,54 EUR	19,0 %	66,00 EUR
Zahlungseingang vom 15.02.2019	55,46 EUR	10,54 EUR	19,0 %	66,00 EUR
Ihre geleisteten Zahlungen				726,00 EUR

Informationen zu Ihrem Zähler und zu Ihrem Stromverbrauch

Zählernummer	Ablesedatum	10 Ablesegrund	11 Ableseart	Zählerstand	12 Verbrauch Einheit
12345678	21.02.2018	Abrechnung	Ablesung	7.501,0	
	31.12.2018	Verbrauchsaufteilung	Maschinelle Schätzung		2.131 kWh
	26.02.2019	Abrechnung	Ablesung	10.106,0	474 kWh
Ihr Verbrauch					2.605 kWh

3

Thank you!

Eleni Kanellou, George Konstantopoulos
NTUA, Greece

ekanellou@epu.ntua.gr,

gkonstantopoulos@epu.ntua.gr