



Co-operative Energy Management for People

<http://www.energieID.be>

### EnergieID?

- EnergieID is a online energy, water and transport management platform for families and organisations
- Free for end-users: also non-members of co-operatives
- Initiative of Diedrik Kuypers (IT) and Vincent Dierickx (expert energymonitoring)
- Online since July 1st 2011, almost 17.000 users on jun 1st 2017
- EnergieID is since Sept 17th 2014 a co-operative with social finality: building and controlling (privacy!) together.
- Co-create intelligence (python): opengridcc (github)
- Flemish REScoops Ecopower, Beauvent, Campina Energie and Pajopower are member
- Involved with Ecopower in H2020 projects: NobelGRID and WiseGRID
- LEAN!



*YOUR PERSONAL RECORD*

Register yourself on [www.energielD.eu](http://www.energielD.eu)

*Start a record for free. It can be a house, collective housing, retail shop, office, school, renewable plant,...*

*You can create more than one record under one account.*

## Create a record

1


2

3


4

Select a template for your new record


Do you represent an organisation or a group of co-owners? Go to [settings](#) and fill out that you are a business user.



**Dwelling or apartment**  
Manage the energy consumption of a family.



**Site, building or work space.**  
Manage the energy consumption of an organisation.

Record name 

Next

Cancel

Create a record

1

2

3

4

Address

Your address is used to calculate climate corrections.

Country

Portugal

Postal code

1000-00

1000-001 Lisboa

1000-002 Lisboa

1000-003 Lisboa

1000-004 Lisboa

1000-005 Lisboa

1000-007 Lisboa

1000-008 Lisboa

1000-009 Lisboa

Previous

Next

Cancel

Create a record

1

2

3

4

Category and function

These properties are used to compare your energy consumption with others.

Dwelling type

Select...

Principal residence

Yes

No

Number of occupants

1

2

3

4

5

6

...

Central heating on

Natural gas

Electricity

Pellets

Fuel oil

...

Auxiliary Heating on

None

Natural gas

Electricity

Pellets

Fire wood

...

Hot water on

Natural gas

Electricity

Pellets

Fuel oil

...

Cooking on

Natural gas

Electricity

...

Previous

Next


Cancel

Create a record


1 — 2 — 3 — 4

Grid connections


For every selected grid connection, a meter is added to your record automatically.




Electricity  
(single tariff)




Electricity  
(day/night)




Electricity  
(excl. night)



Natural gas



Heat  
(district heating)



Drinking water

Previous

Next


Cancel

Create a record


1 — 2 — 3 — 4

Additional meters


Do you have additional meters? Select them below.



Solar panels  
(green power)



CHP  
(green power)



Car  
(distance)

Previous

Finish

Cancel

21-06-17

© EnergieID cvba-so

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energieID
Groups
Integrations
News
Contact
Help
Test

Properties

Meters

Reports

Benchmark

Groups

+ New meter
Show automatic meters

	Last meter reading	
Drinking water	Unknown	<div> New meter reading on 13/06/2017 10:05 </div> <input type="text"/> m³
Electricity (day)	Unknown	<input type="text"/> kWh
Electricity (night)	Unknown	<input type="text"/> kWh
Natural gas	Unknown	<input type="text"/> m³
Solar panels	Unknown	<input type="text"/> kWh

Save



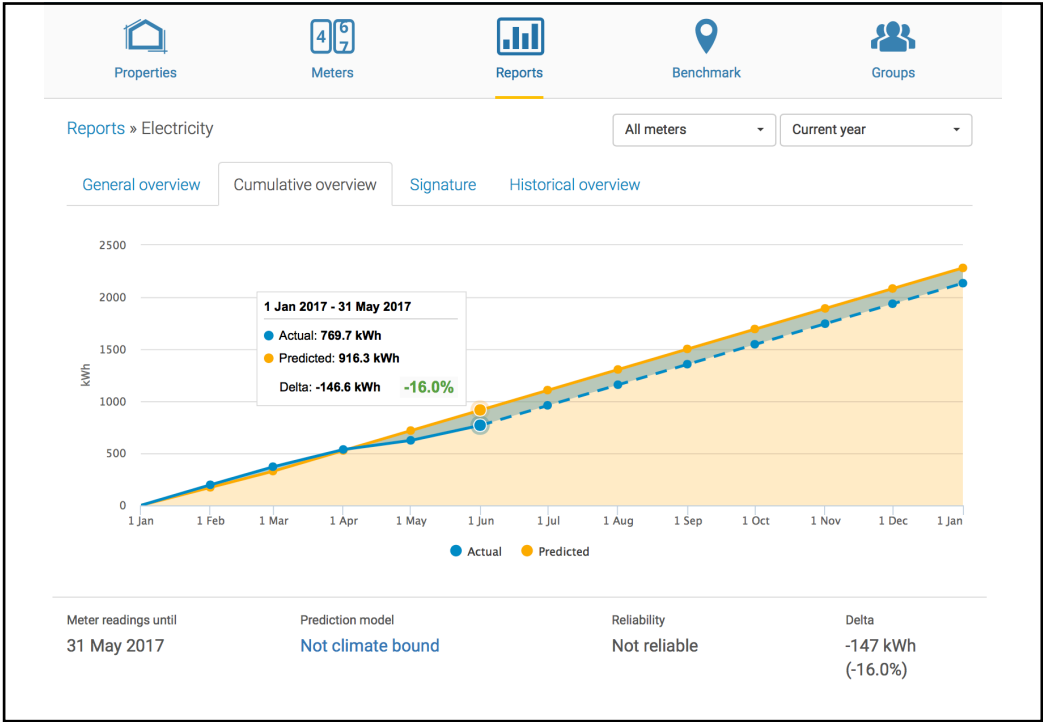
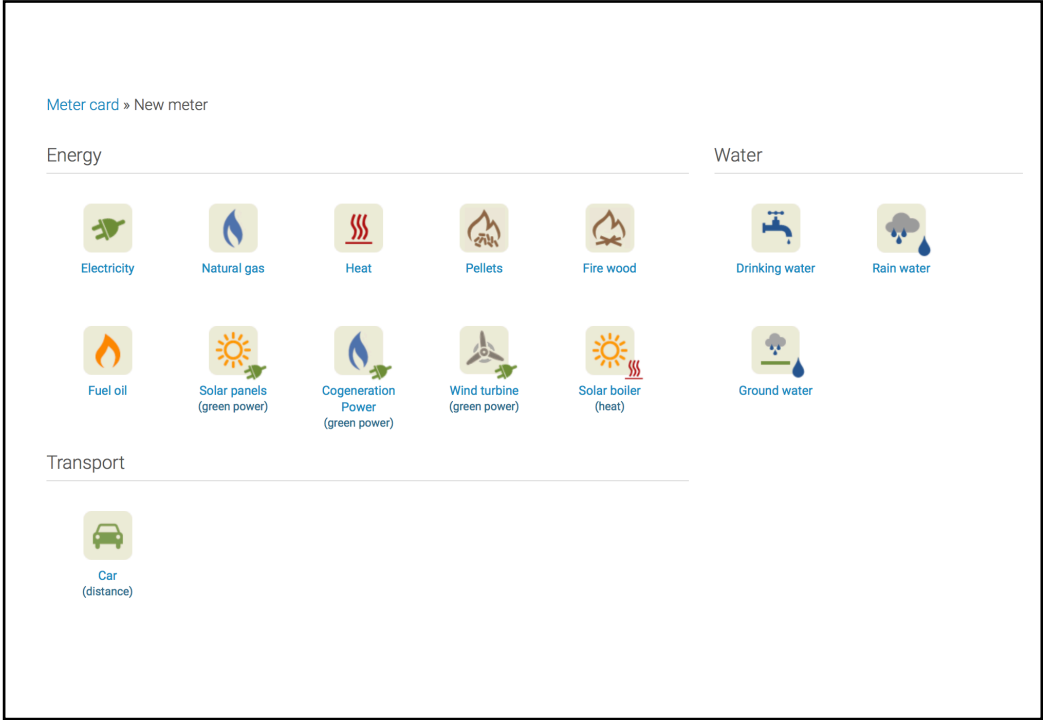
*Or through the import of your own files*

The screenshot shows the EnergieID web application interface. At the top is a blue navigation bar with the 'energieID' logo and links for Groups, Integrations, News, Contact, and Help. On the right of the bar are 'Test' and a user profile icon. Below the navigation bar is a secondary bar with icons and labels for Properties, Meters (which is highlighted with a yellow underline), Reports, Benchmark, and Groups. The main content area is titled 'Import your meter readings' with a close button (X) in the top right. Below the title, it states: 'You can import Excel and CSV files that meet our [import specifications](#).' A large dashed box contains the text 'Drag your CSV or Excel file to this box' and a link 'Or [select a file on your computer](#)'.

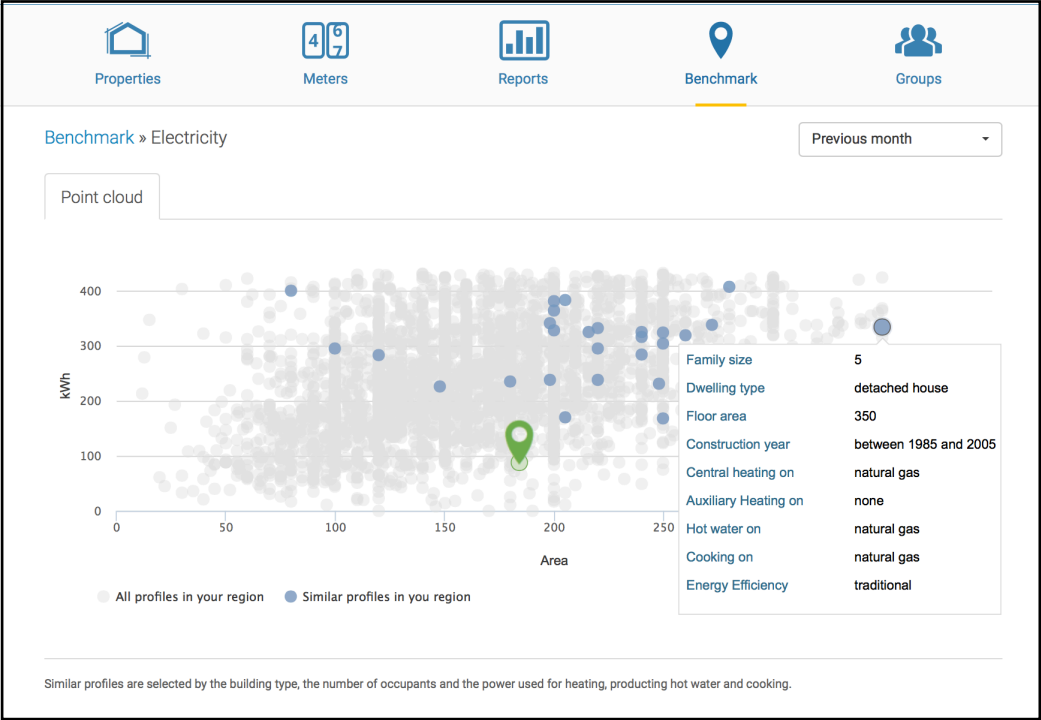
*Or automated through data integrations.*

The screenshot shows the 'Do more with EnergyID' section of the web application. It features a blue header with the title 'Do more with EnergyID' and the subtitle 'Connect your record to external datasources'. Below this is a search bar with the placeholder text 'Search integrations...'. Underneath the search bar is the word 'Overview'. A list of integration options is displayed, each with an icon, a title, a description, and a right-pointing arrow:

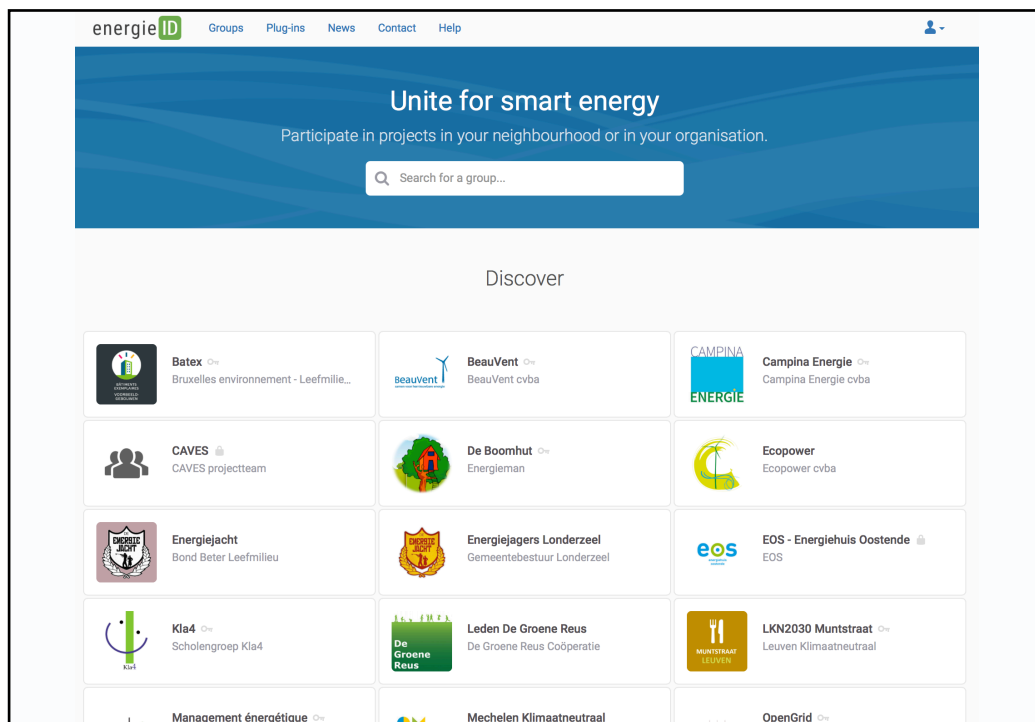
- 2-Wire**: Connect your 2-Wire energy monitoring system with your EnergieID record.
- Flukso**: Flukso is een open-source en web-based energiemeter.
- FTP Import**: Laat EnergieID automatisch gegevens van een FTP server inladen.
- Smappee**: Gain real-time insight into your energy, gas and water consumption and the yield of your solar panels - thanks to S...
- Solar-Log**: Datalogger zonne-energiesysteem.







*GROUPS*  
*connect people and climate*



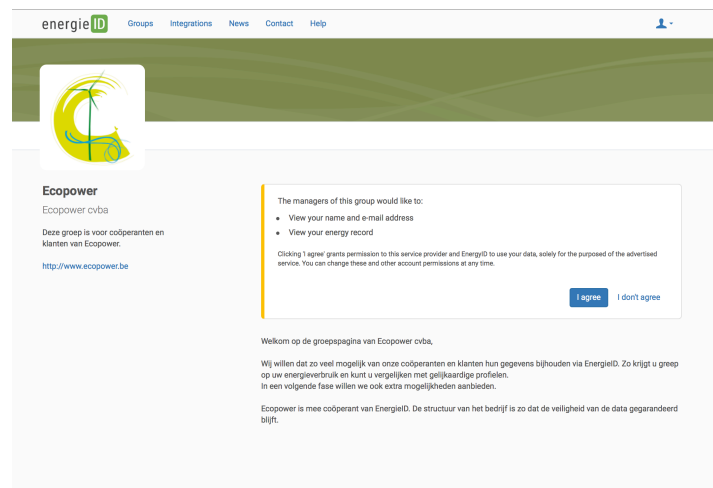
energieID

### What to do with a GROUP?

- Energy measurements in the context of a **Local Action Plan**
  - Targeted to towns and provinces
  - Only anonymous aggregated results
  - No access to individual results
- Individual follow-up and supervision within **collective actions**
  - M & V, individually and as a group
  - Internal benchmarking
  - Membership and record management
- Multi-site **energy management**
  - Understanding of day-to-day regulation
  - Alarming

## EnergieID for Ecopower

- Customers platform
- 5921 users (12%)



## energieID

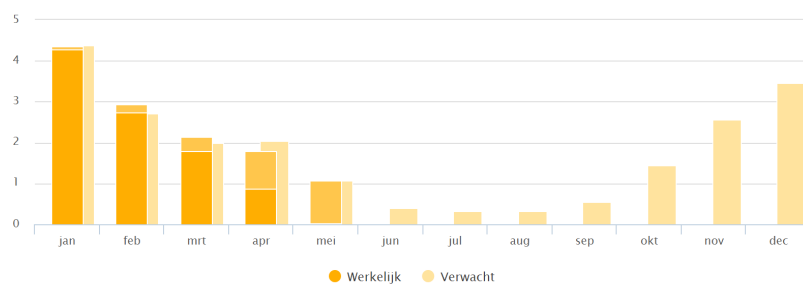
### Reports

#### Aggregated results

##### Overzicht energieverbruik

Finaal

12,3 GWh +0,4%

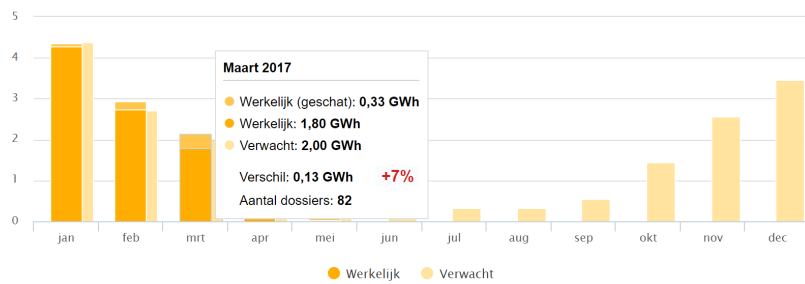


Aggregated results

Overzicht energieverbruik

Finaal

12,3 GWh +0,4%

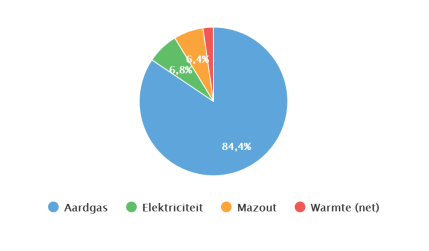


Fuel types

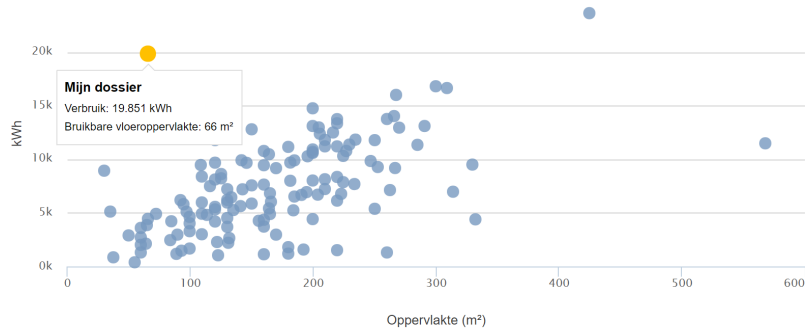
Verbruik per energiebron

Energiebron	GWh	%
1 Aardgas	10,37	84,5%
2 Elektriciteit	0,84	6,8%
3 Mazout	0,79	6,4%
4 Warmte (net)	0,28	2,3%

Verbruik per energiebron



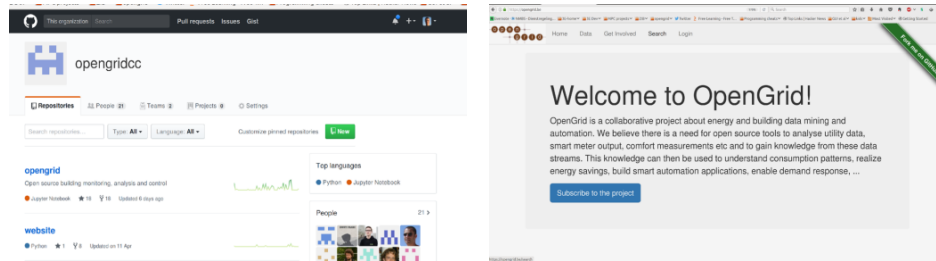
Verbruik t.o.v. oppervlakte



Werkelijk verbruik t.o.v. verwachting

Dossier	Verbruik	Vershill
1 Gebouw A88	1 232 997 kWh	-30 903 kWh -2,4%
2 Gebouw F55	943 787 kWh	+5 755 kWh +0,6%
3 Gebouw C22	851 159 kWh	-67 765 kWh -7,4%
4 Gebouw A44	747 450 kWh	+60 965 kWh +8,9%
5 Gebouw G66	740 561 kWh	+9 495 kWh +1,3%
6 Gebouw A54	712 740 kWh	+4 424 kWh +0,6%

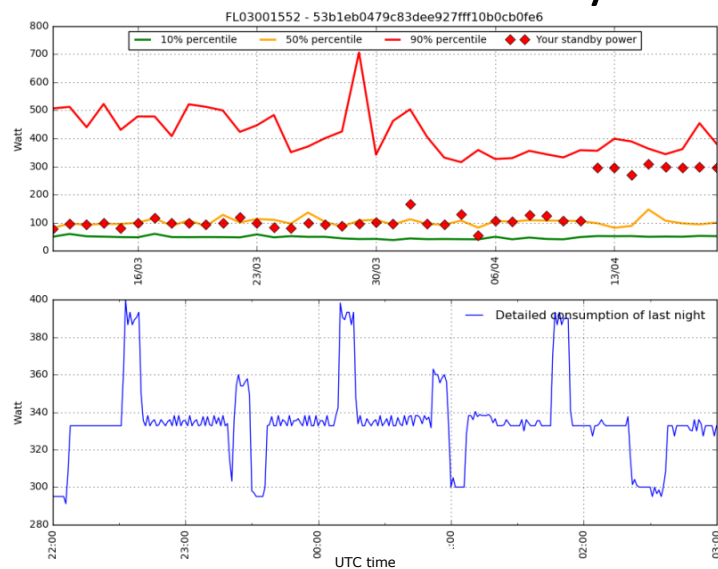
# Open-source algorithms for data-driven building analysis and control



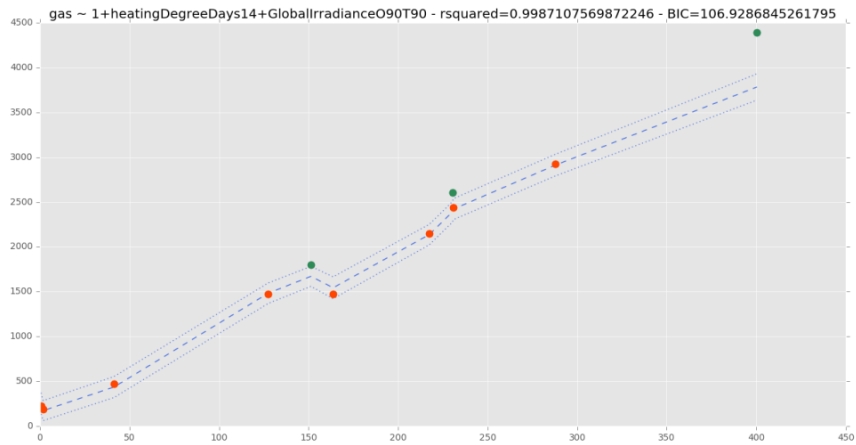
<https://github.com/opengridcc/>

<https://www.opengrid.be>

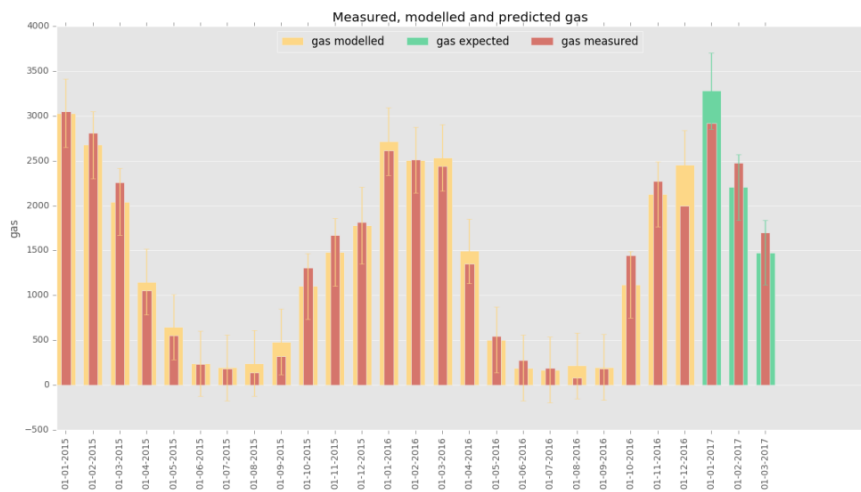
## Elektriciteit standby



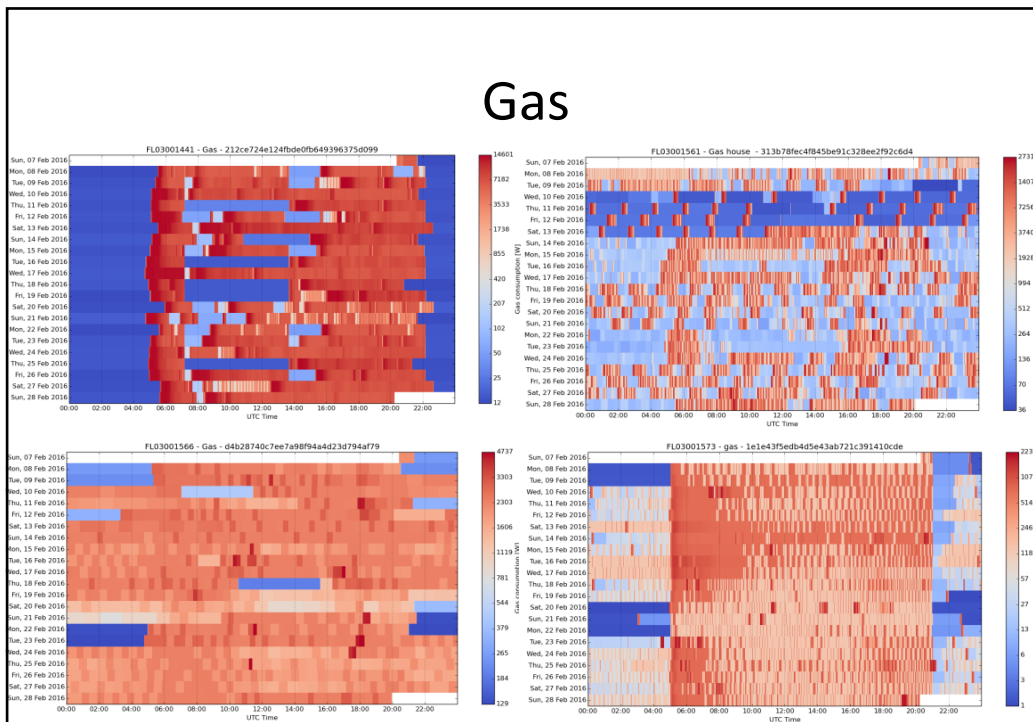
# Gas



# Gas

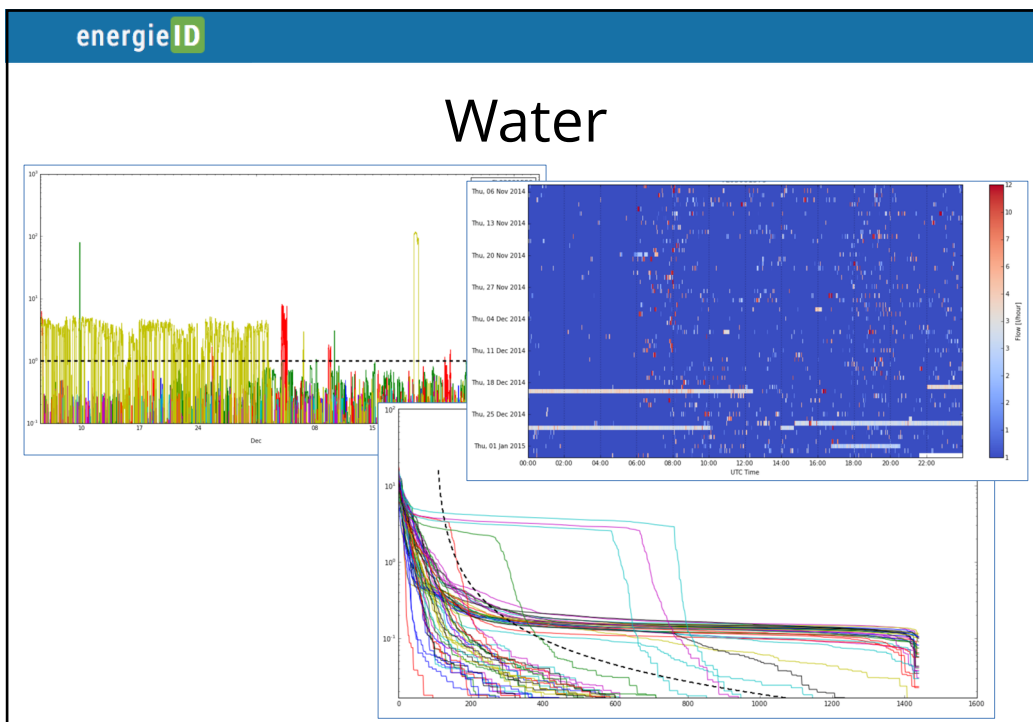


# Gas



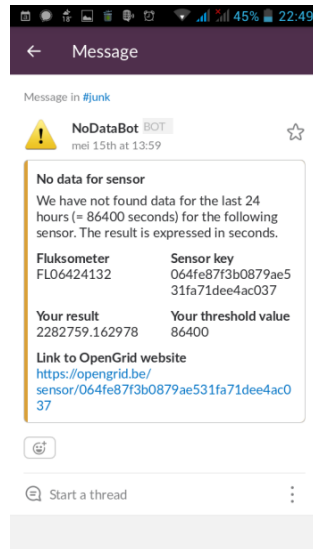
energieID

# Water





# Alarmering



*BEST PRACTICES*

## Implementation of EnergielD in Portugal

- Internal adaptation:
  - Localizing Groups: show your Group page in more than one language
  - Localizing your Integration: show your Integration in more than one language
  - Support for regional meteo data
- Postal codes / meteo regions
- Translation
- Local support
- Localizing our Platform: name?

## Implementation in your country

- Set-up for the whole country
- Approx 3.000 EUR
- Daily data for free
- Local organisations (Rescoops?) to manage support / translations
- Using and / or selling groups

### next 2 years

- Online group buying / payment / management
- Integrations with third party platforms:
  - Outgoing: BI, Covenant Website, Beedata, other coops...
  - Incoming: MyEcopower, Nobelgrid, DrWatt, Beedata, Opinum, other coops...
- More advanced, open source analytics: M&V, CO2, primary energy, EUR.
- Billboard for interactions between end-user and service provider with automated notifications and event logging

--> WORKING TOGETHER