

## Green choice

Green choice is a renewable Dutch utility that provides electricity and gas. They have their own platform to provide an energy efficiency service to their customers. The software offered to their customers is a very simple app that provides daily, monthly and yearly consumption information.

The app does not offer real time consumption and the smallest time lapse is daily consumption. However, it offers a comparison with other similar households and provides some tips on how to save energy.

### Download the new app Greenchoice

The app will get you as a customer of Green Choice insight into your consumption and you can arrange a lot of energy business itself. Simple, anytime, anywhere:

- ✓ Submit meter readings in your cupboard
- ✓ Check your energy consumption and grid per year, month, week and day
- ✓ View or change your monthly installment amount
- ✓ Compare your consumption with the rest of the Netherlands or similar households
- ✓ Use our saving tips to save energy



## Bee Group

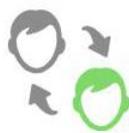
Bee Group is the energy efficiency department of the International Centre for Numerical Methods in Engineering (CIMNE). The company offers solutions to households, utilities, community buildings and cities, all related to provide tips and recommendations for a more efficient use of energy.

For the consumer side, they offer *ControlaEnergia* which is an app that provides graphs on your historic consumption, gives recommendations and compares with other users. Also, it includes some gamification tips to enhance the user engagement on the app. For instance, it awards the user with points for different reasons such as daily access or input information. It is important to highlight that the user has to enter his consumption data and is able to enter as much data as desired.

Besides this, the same software together with extra services related to data analytics is offered to utilities as a customer engagement tool. In this case, the software uses the data provided by the utility smart meters.



Neighbour  
comparison



Previous  
consumption  
comparison



Detailed  
consumption



Climatic  
dependence  
analysis



Energy  
consumption  
forecast

## Green Pocket

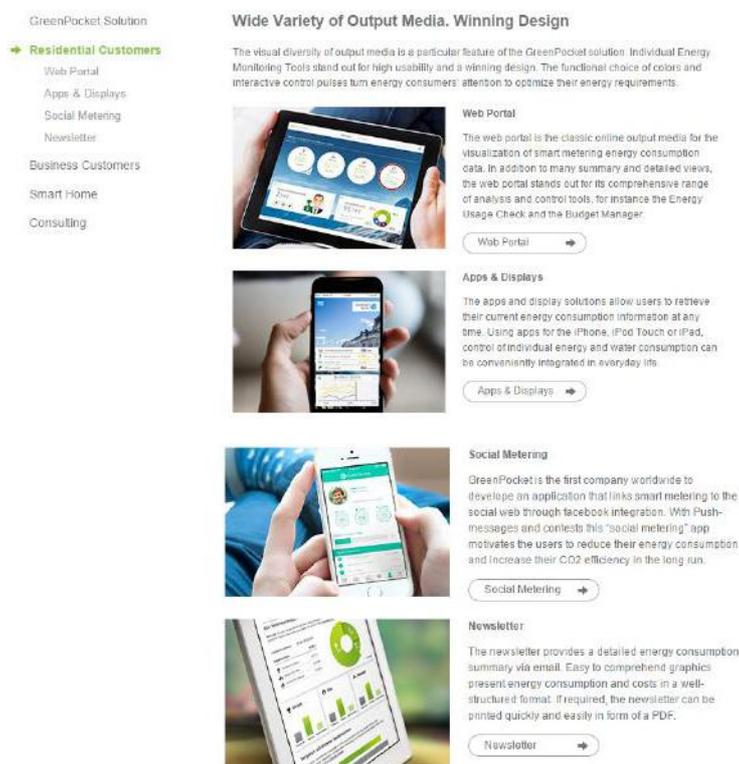
Green Pocket is a software specialist based on Germany that provides energy and water management solutions to large and small utilities for residential and business customers.

The channels used within the residential product are: web portal, smartphone app and newsletter. Consumption data is obtained from smart meters, but the software is also able to connect with other hardware that allows offering extra smart home tools. Besides this, social metering is a key feature of the software: it allows posting the user's achievements on Facebook, challenging your friends and winning badges for personal successes. Furthermore, it is also possible to visualize the energy produced if the customer works as a prosumer.

The software for business customers is similar, but more focused on the management side of time and resources.

In addition, Green Pocket is spreading its product by offering also smart home software. This tool includes remote control of appliances and lighting, and can be connected to many types of hardware (control devices, sensors, etc).

Finally, the company also offers consulting services for those interested in entering the smart home market. They provide different types of help such as market research or hardware acknowledgement as a result of their experience.



**GreenPocket Solution**

- ➔ Residential Customers
  - Web Portal
  - Apps & Displays
  - Social Metering
  - Newsletter
- Business Customers
- Smart Home
- Consulting

### Wide Variety of Output Media. Winning Design

The visual diversity of output media is a particular feature of the GreenPocket solution. Individual Energy Monitoring Tools stand out for high usability and a winning design. The functional choice of colors and interactive control pulses turn energy consumers' attention to optimize their energy requirements.

#### Web Portal

The web portal is the classic online output media for the visualization of smart metering energy consumption data. In addition to many summary and detailed views, the web portal stands out for its comprehensive range of analysis and control tools, for instance the Energy Usage Check and the Budget Manager.

Web Portal ➔

#### Apps & Displays

The apps and display solutions allow users to retrieve their current energy consumption information at any time. Using apps for the iPhone, iPod Touch or iPad, control of individual energy and water consumption can be conveniently integrated in everyday life.

Apps & Displays ➔

#### Social Metering

GreenPocket is the first company worldwide to develop an application that links smart metering to the social web through facebook integration. With Push-messages and contests this "social metering" app motivates the users to reduce their energy consumption and increase their CO2 efficiency in the long run.

Social Metering ➔

#### Newsletter

The newsletter provides a detailed energy consumption summary via email. Easy to comprehend graphics present energy consumption and costs in a well-structured format. If required, the newsletter can be printed quickly and easily in form of a PDF.

Newsletter ➔

## Rocket Home

Rocket Home is a German company offering multiple products in a centralized way. All the applications and features are connected in a unique device in order to provide “a complete solution for connected homes”. The fields covered are: home control, home monitoring and home energy.

Their solution is provided with an open software platform called *HomeRUN intelligence cloud*. The platform is white-label in order to allow branding on it and highly customizable. Their customers are mainly utilities and telecommunication companies.



### Home Control

Remote control and automation of homes & commercial premises for more comfort & lifestyle



### Home Monitoring

Continuous monitoring of home sensors and cloud-video delivers safety and peace-of-mind



### Home Energy

Interpretation and optimization of energy consumption and production for more efficiency



## Mirubee

Mirubee is a start-up from Wayra (Telefonica accelerator) that offers an energy efficiency solution in a BtoC (Business to Customer) business model. It is important to highlight that this solution does not use the data from smart meters and requires installing a device into the home's electrical panel. This device, *Mirubox*, sends continuously the consumption data via Wi-Fi and its price is 119.50€.

The channels used are smartphone app and web portal. It provides tips on the best electric tariff for the customer based on his/her past consumption. The most important feature is its ability to disaggregate consumption data through *Inspectee* technology.



## Wattio

Wattio is a company providing home control solutions for comfort, energy efficiency and security services. They offer different types of devices such as smart thermostats, smart plugs, security cameras, etc.

For each demand, they offer several packages composed by different devices. For instance, to save electricity, they offer a package composed by a smart plug and an electricity monitor. Both devices are connected to the software provided by Wattio.

The software gives insights on your electricity consumption and provides information on your consumption habits. Moreover, it also provides a comparison with other homes and sends alarm when something unusual happens in the consumption.

The price of a package composed by a smart thermostat, a smart plug, an energy monitor and a home automation centre is 299.90€.



**Comfort**  
Get maximum comfort with minimum consumption.

**Energy Efficiency**  
Control your electricity expenses and recover your investment quickly.

**Security**  
Receive alerts should some something unexpected occur in your home.



## Circutor

Circutor is a company with more than 40 years of experience on designing and manufacturing hardware devices for energy efficiency services such as monitoring, measurement, control, protection, etc.

One of their innovative devices is *Wibee* which is a consumption analyser. The device is inserted into the electrical panel and connected to a Wi-Fi connection in order to collect electrical data. The market price of the device is 173€.



The interaction with the user is done with an app also developed by Circutor. The software allows the user to access to his/her consumption data in real time by using a smartphone, a tablet or a computer. The platform provides instantaneous power consumption and allows exporting the data generated to an Excel sheet. Moreover, it also provides instantaneous values for other variables such as active power, reactive power, intensity, voltage, and frequency, etc. The data is collected into the platform in order to observe and compare the evolution of electricity consumption.



## Intelen

Intelen is a USA start-up company that provides a customer engagement platform for utility customers both businesses and residential. The company puts all the efforts on providing the most completely personalized service. Understanding each customer's behavioural pattern is the key success to offer services that "Engage people to rethink".

The solution proposed, presented under the name of *DiG Energy*, is white-labelled in order to include utility brands and has many different features that can vary depending on the willingness of each energy provider.

Features are comprised in 4 main sections: DiG Energy, DiG Engagement, DiG Marketplace and DiG Consulting/Analytics. DiG Energy provides tools to monitor daily energy consumption and its associated cost through different functionalities such as peer comparison, peak demand monitoring, energy disaggregation, personalized notifications and bills prediction. DiG Engagement provides educational tools to empower behavioural changes in the users in order to retain them as long as possible and attract new customers. They provide personalized services in order to satisfy customer's needs through gamification tools. At the same time, users are challenged in order to understand the benefits of their achievements. DiG Marketplace is also related with the gamification tools. It is a place that can be used for the utility as a way to increase the revenues, and with the introduction of virtual coins, it offers the user an extra gamified experience to recompense his/her energy savings efforts. Finally, DiG Consulting/Analytics is a service resulting from the acknowledgement on understanding every user's routine. This tool is offered to utilities in order to be able to segment more accurately the market and prepare more customized marketing campaigns.

# Intelen

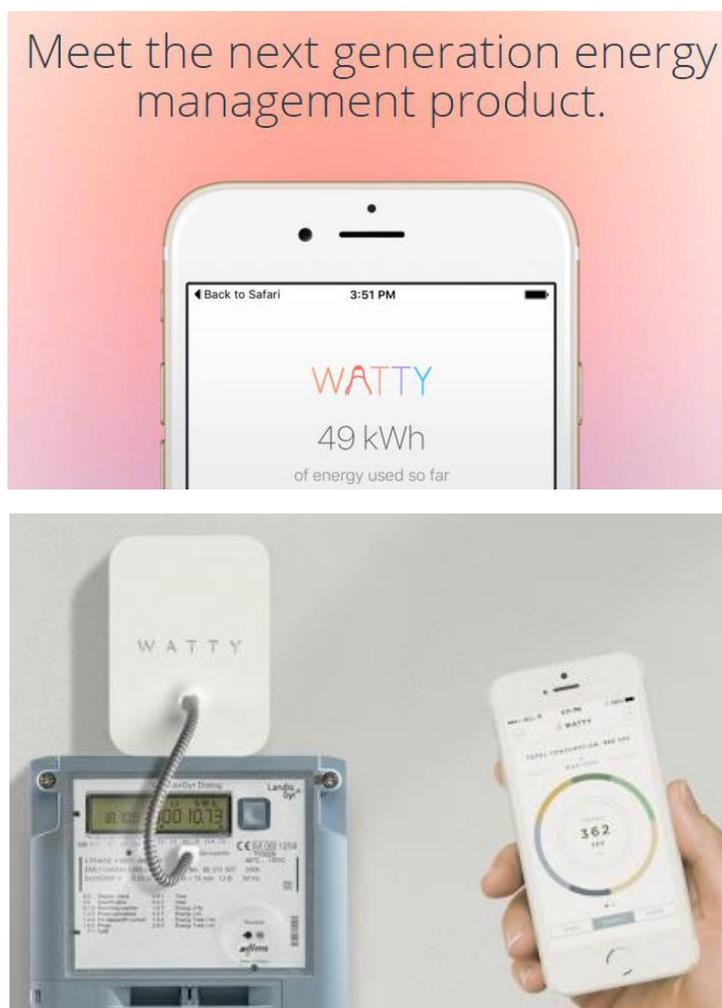
ENGAGING PEOPLE TO RETHINK



## Watty

Watty is a start-up from Sweden focused on disaggregation technologies. Using just one measurement source and applying it to their machine learning algorithms, they are able to diagnose the appliances energy usage. To do so, their solution requires of a low-cost hardware that obtains the data from the smart meter. Moreover, it also compares the appliances with alternatives in the market.

The solution is mainly designed for utility companies to increase their customer engagement. However, they also offer his software to solar providers and connected homes companies. In these cases, they allow to use and integrate with their software.



## Alert Me

AlertMe is a UK company offering hardware and software in order to enable household users to monitor and control their energy consumption. Through disaggregation algorithms, they provide energy savings recommendations.

Hardware devices are based on a home hub that can be connected via wireless to other AlertMe devices and third party devices.

The software platform is based on three main products: *SmartEnergy* for electricity monitoring, *SmartHeating* for remote heating control and *SmartMonitoring* for home monitoring.

**It has been acquired by British Gas and the original website is no longer available. (65m\$)**

## British Gas

British Gas is the largest UK energy company. They supply gas, electricity, boilers and home services. In 2015, they acquired the company AlertMe in order to offer an energy saving service directly to their customers.

The company offers for free to their customers the installation of a smart meter that monitors at real time the electricity and gas consumption. The smart meter together with the platform *My Energy* enables the user to visualize his/her daily, weekly, monthly and yearly energy consumption, and compares it with past values and other customers. Moreover, the platform also provides some general energy saving tips.

Besides this, they also offer *Hive*, a smart thermostat to control and monitor heating. The thermostat is provided in a package with two more devices that enable to connect to the boiler and the wireless router. It is important to highlight that there is no need to be British Gas customer to be able to purchase this product. The price of the complete kit is 249\$.



A wireless thermostat



A hub

A receiver



Beautiful design. Clever control. The new Hive thermostat lets you easily control your heating at home.



Plugs into your broadband router so your thermostat connects to the internet. (We'll set it up for you in the installation.)

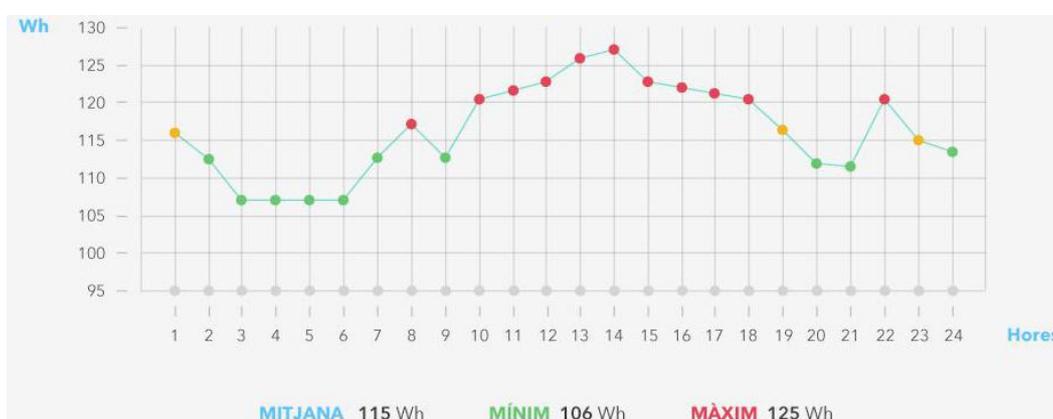


Lets your thermostat and boiler talk to each other. It's usually fitted near your boiler, so you'll barely notice it.

## Factor Energia

Factor Energia is an electricity retailer offering a new energy efficiency service to his customers. The service is accessible from an app named *Factor SmartHome* and it is focused on the economic savings through a responsible energy use.

The main characteristic of the platform is the ability to present the hourly price of electricity and give recommendations on the best time for using common appliances such as washing machines. Besides this, the platform also offers the possibility to compare with other consumers. If the user includes information about his/her home, the platform is also able to provide personalized energy saving tips depending on geographic situation, number of people, heating/cooling system, etc.



## Fifthplay

Fifthplay is a Belgium company delivering smart home solutions for increasing comfort and save energy. They work together with utilities, telecommunication companies and others.

The product range is wide and they offer mainly many different hardware smart devices and software connected to them. The products are assembled in several packages for specific purposes. For example, they offer packages for schools and universities, for software developers and for utilities.

Using the software from a web portal or through the app, the user can control smart plugs, set the temperature of the thermostat and compare the consumption of each device.

Smart cities are also one of their customers. In this case, they offer a specialized solution for them called *Nuvonet* that offers a smart community platform built by blocks that are chose specifically for each type of community.



## Onzo

Onzo is a company focused on analysing big data in order to provide customized solutions to utilities for customer engagement services. They emphasize on their ability to develop complete customized tools for specific uses depending on each utility need. Moreover, the platform offered is completely white-labelled in order to personalize the communication between the customer and the utility.

In other words, they analyse big data from the utility to transform and deliver valuable information that benefits both user and utilities. The data received from the utility comes from electricity and gas meters.

They are already working with the utility Green Choice and with Silver Spring Networks.

The infographic is divided into two columns. The left column, titled 'Insight', features a blue background with a bar chart and line graph. It lists five benefits: receiving estate performance insights, getting alerts for site issues, seeing energy use breakdown by appliance, offering insights as a service to franchisees, and integrating analytics with existing data warehousing. The right column, titled 'Engagement', features an orange background with a photo of two women. It lists five benefits: comparing energy use against other sites, setting goals and challenges, seeing consumption breakdown by appliance type, and adding additional data like sales or temperature for personalized insights.

Insight	Engagement
Receive insight on how the estate is performing	Compare your site energy use against other sites
Get alerts and notifications of potential issues on sites	Set yourself goals and challenges to achieve and track
See the breakdown of energy use by appliance	See a breakdown of your consumption by appliance type
Offer energy insight as a service to franchisees	Add in additional data like sales / footfall / temperature to deliver better personalised insights for the store
Integrate our analytics with your current data warehousing / corporate reporting to deliver more insights across the company	

