

## TRUE EFFICIENCY STARTS WITH INTELLIGENT SOLUTIONS

**Watt Intelligent Solutions** is all about understanding the electricity usage of the residential sector.

Without requiring any additional equipment installation other than smart meters, we have the capacity to identify electricity usage in each household, disaggregating it into the main appliances consumptions.

**Watt Intelligent Solutions** has developed a software based solution that collects electricity consumption data from the smart-meters and generates added value information. This allows electricity providers to develop new business models, like **providing tailored energy efficient tips** to specific household clients, **segment clients by consumption patterns** and Demand Side Management potential, **develop new tariff schemes** and **improve forecasting systems**.

If you want to know more email us at [info@watt-is.com](mailto:info@watt-is.com)



Efficient Thinking  
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## The Smart-Grid Age

### ENABLING ENERGY EFFICIENCY IN THE HOUSEHOLD SECTOR

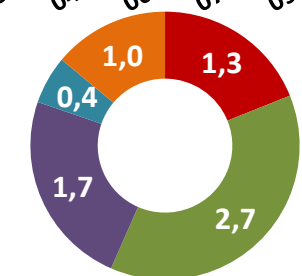
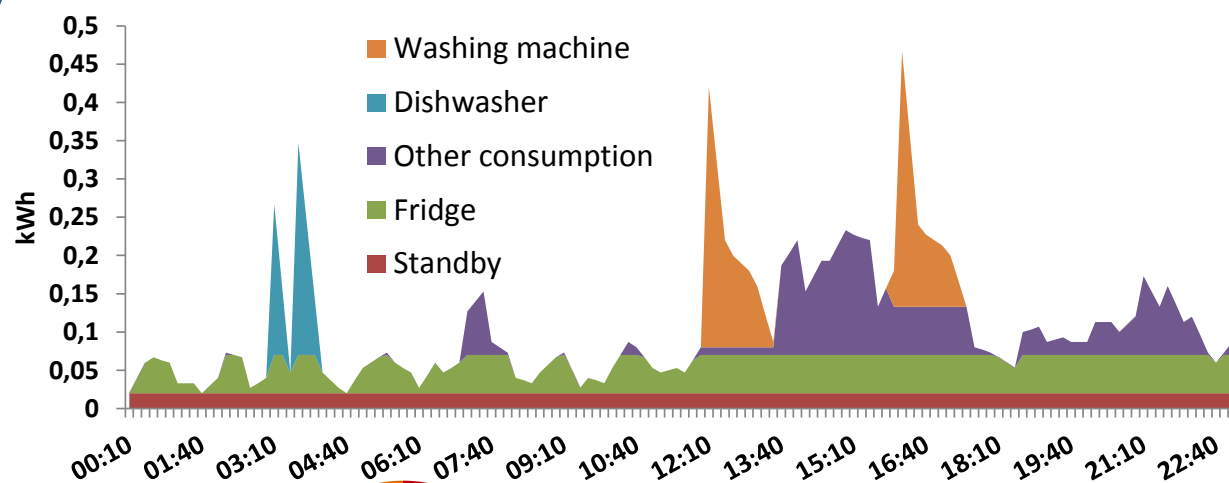
The number of smart meters in the world is expected to reach 150 Million by 2015 (20 Million in U.S. and 50 Million in Europe now) pushed by monetary and regulatory incentives.

The smart meters will provide real time information about the aggregate electricity consumption and this is expected to lead to substantial gains in the electricity systems efficiency.

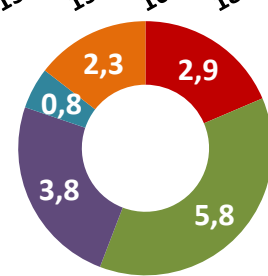
By itself, the information provided by smart meters is not sufficient for residential consumers to understand how they can be more efficient.

If electricity providers know which and when appliances are used in each home, they can help consumers by suggesting **specific tailor made energy efficiency measures that will yield benefits for all stakeholders.**

## Understanding electricity usage of household clients



CO2 Emissions per day (Kg CO2/day)



Electricity consumption per day (kWh/day)

### ENVIRONMENTAL IMPACT

It is expected that smart meter deployment coupled with ICT may bring benefits at the environmental level through the reduction of CO2 emissions from energy usage of around 15% of total carbon emissions in 2020. Enabling energy efficiency at the household level Watt-IS aims at working jointly with energy utility companies and end users to lower CO2 emissions from the household sector.



### OUR WAY TO DO IT

While others install additional measuring equipment at each main appliance, increasing costs and intrusiveness, WATT-IS offers a different approach.

Our software uses the data collected by the smart meter alone to identify the main appliances without additional investments. This allows analyzing all consumers that have a smart meter installed in a fast and efficient way.

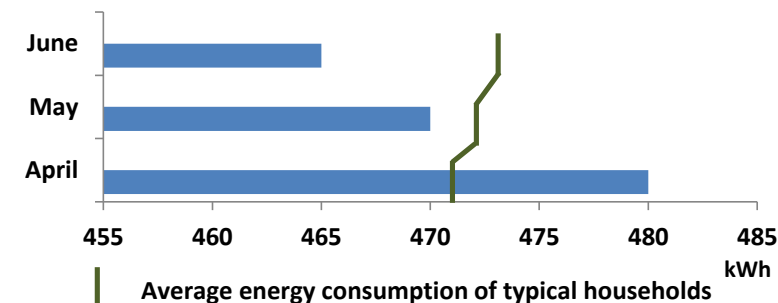
The information produced by Watt-IS can be sent to household clients as a way to promote energy efficiency behaviors.



### RESIDENTIAL SECTOR

The residential sector represents around 30% of total electricity consumption in Europe and is the main responsible for electricity peak hours. Targeting this sector is of high importance to flatten the load diagram.

### Energy consumption per month



### HOUSEHOLD SPECIFIC ENERGY EFFICIENCY MEASURES

- Start using your dishwasher and washig machine after 23:00 and you will save 10 €/year
- Change energy tariff to the dual period tariff and you will save 20 €/year
- Comparatively with the average household client your standby is over 30%
- Change your contracted power limit to 3,45 KVA and you will save 50 €/year

Powered by  Watt Intelligent Solutions



### SOFTWARE BASED SOLUTION

Watt-IS software platform collects data from smart meters and disaggregates electricity consumption and identifies the main appliances usage in a household.