Smart Metering
Towards a smarter energy world

ESMIG
EUROPEAN SMART METERING
INDUSTRY GROUP

SMART GRID

SMART GRID

SMART GRID

SMART HOMES
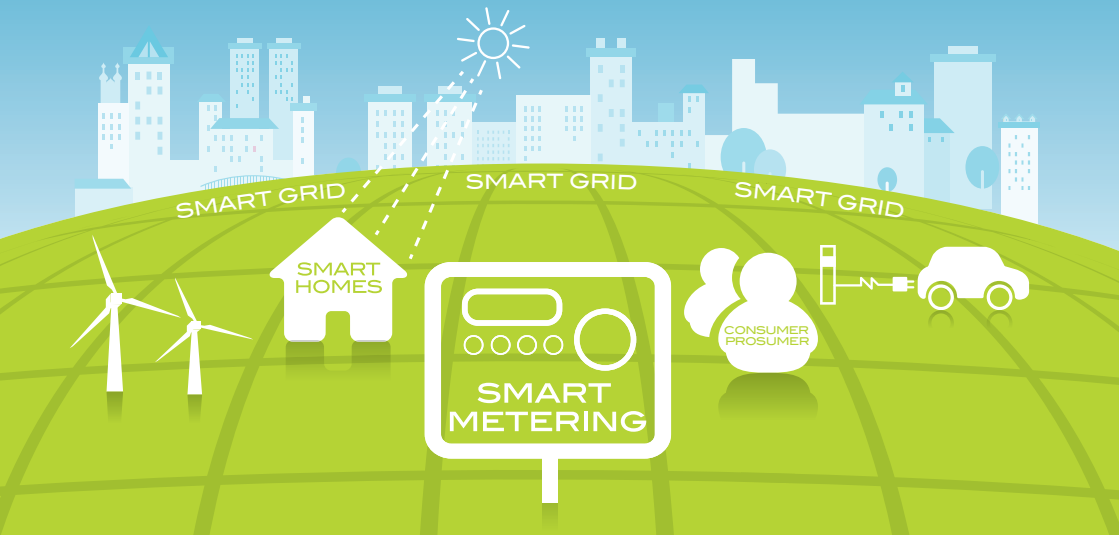
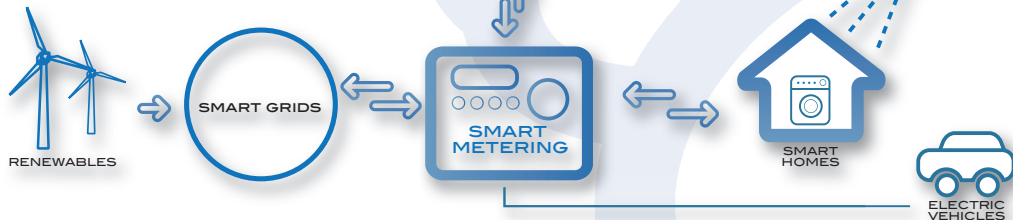SMART METERING

CONSUMER PROSUMER

ESMIG – who are we?

The European Smart Metering Industry Group (ESMIG) is the European industry association that provides knowledge and expertise on Smart Metering and related communications at a European level.

ESMIG's members are the leading companies in the European Smart Metering Market: meter manufacturers, IT companies, communications product and service providers, home energy management product and service providers and system integrators. ESMIG covers all aspects of Smart Metering and related services, including electricity, gas, water and heat measurement.

By giving support to European Union institutions, member states and standardisation organisations, the industry group aims to assist in the development of national and European-wide introduction, roll-out and management of Smart Metering and related solutions.

ESMIG – what we do

- participate in several stakeholder groups such as Smart Meters Coordination Group, Smart Grids Task Force, Smart Grids Coordination Group, working group Measuring Instruments, European Electricity Grid Initiative;

- cooperate with partners such as CEN, CENELEC, DLMS, ESNA, ETSI, KNX, Wavenis and ZigBee Alliance in the area of European and international standardisation;

- provide expertise and advice to European institutions and organisations on the key-issues for a European-wide implementation and roll-out of Smart Metering technologies;

- raise awareness, inform and educate the consumer on the benefits of Smart Metering.

CONSUMER
PROSUMER

RENEWABLES

SMART GRIDS

SMART METERING

SMART HOMES

ELECTRIC VEHICLES

ENABLING A SMARTER ENERGY WORLD

CONSUMER PROSUMER

Smart Grids

- transmission and distribution of more energy within existing network capacity through more and accurate information
- optimisation and better energy management
- demand side management facilities: give network operators valuable tools to manage loads on their networks

RENEWABLES

Consumers/Prosumers

- more and better information on their energy consumption and generation (real-time feedback, correct billing, on-line data)
- dynamic tariffs, such as TimeofUse
- demand response programmes
- easy supplier switching
- an increasing number of consumers are becoming energy producers (selling energy generated locally) ("prosumer")

Renewables and Distributed Generation

- better integrate the growing number of embedded renewable generators, such as wind and photovoltaic
- measure exported power when the customers use less power than they generate
- measure the output of the generator and supply this data to the energy company (complete picture of the generator's performance)
- manage fleets of embedded generators as though they were a single large plant – so-called virtual power plants

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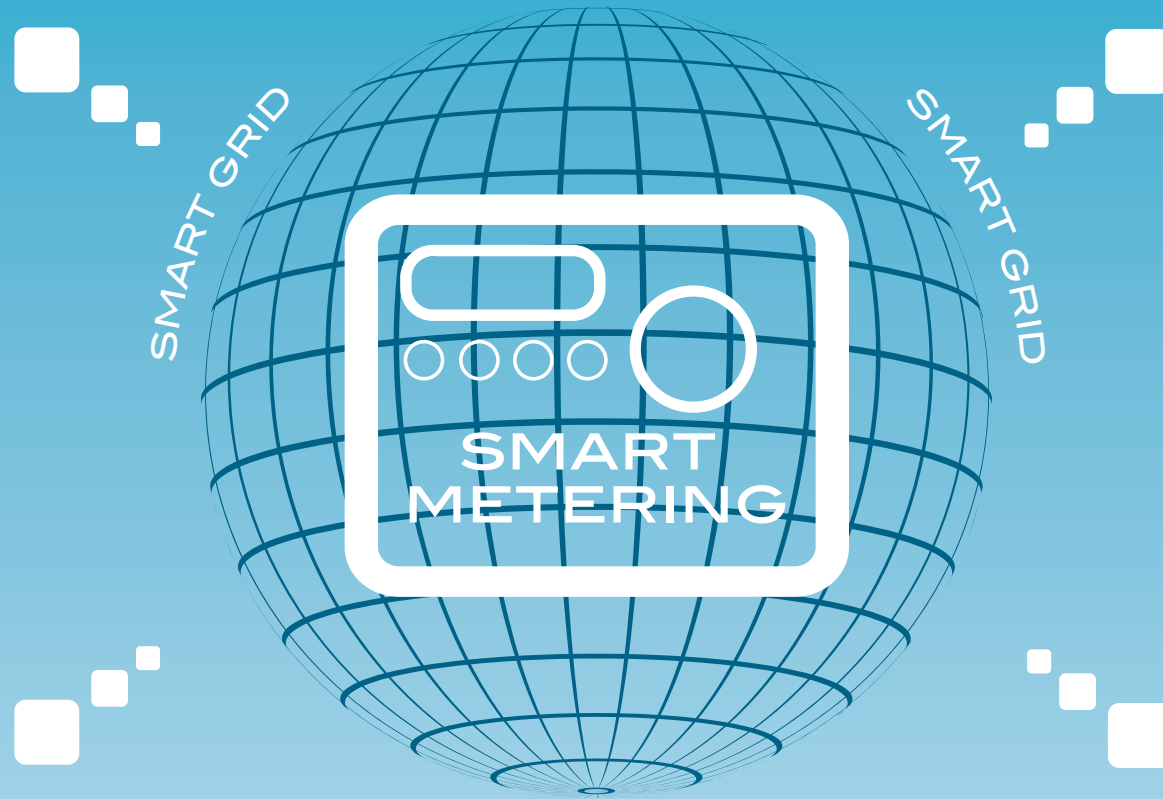
SMART GRID

SMART METERING

Smart Homes

- provide an interface for smart homes devices
- allow for comprehensive home energy management
- enable buildings communications systems with knock on effects for controlling heating, lighting, ventilation and appliance use

Electric Vehicles

- efficiently managed when charged or used as a power storage and source
- information on how and when to charge or give energy back to the network independently of the location or time
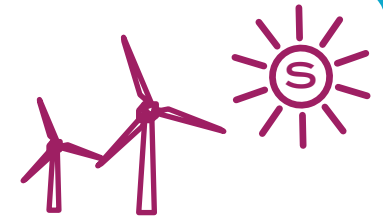
Smart Meters are the cornerstones of Smart Grids

They give accurate insight in the quality of power supply and any disturbances in electricity networks.

Fraud and leakages can be detected easily, so the cost of economical energy losses decreases.

They support the European efforts for efficient use of energy and getting climate changes under control.

SMART HOMES

ELECTRIC VEHICLES

European Smart Metering Industry Group

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