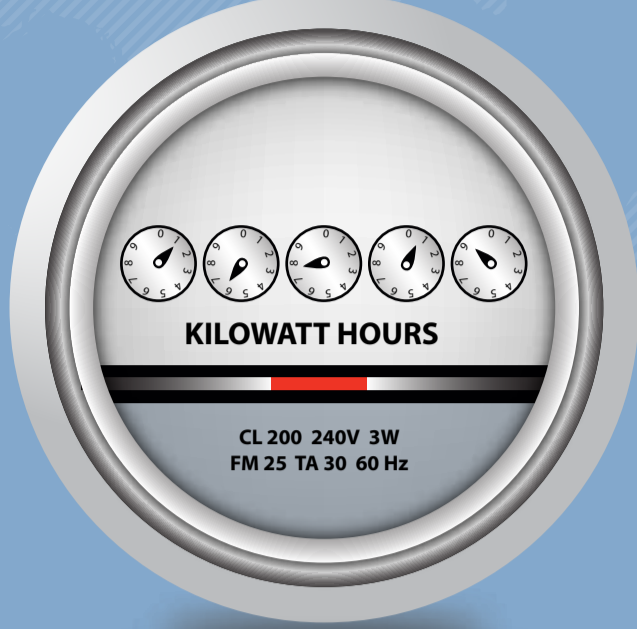


MAKING THE TRANSITION TO SMART METERING

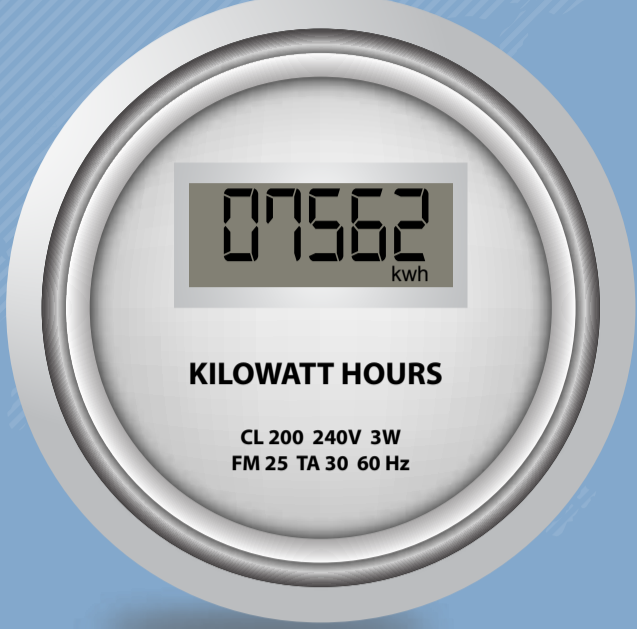
A smart meter refers to a utility meter incorporating computing and networking capabilities. Through sensor networks, smart meters enable efficient energy distribution through two-way communication from the central power stations of the utility to the consumers. Like a traditional meter, smart meters measure total energy use telling you when you have used energy and its costs. All data is available through a display device inside your home.

WHAT IS A SMART METER?

OLD METER



SMART METER



VS

Analog gas, electric or water meter that is used for monitoring utility usage and billing purposes.

Computerized gas, electric or water meter that is connected to the electric grid. Allows for two-way communication between the meter and the central system.

HOW SMART METERING WORKS

Smart metering monitor device

1



Accurate energy billing that is cost effective

5



2

Smart Meter records energy consumption digitally



3

Periodically transmits the data via a dedicated radio frequency (RF) network



Users view and manage energy consumption

4



SMART METERING BENEFITS



Manages energy consumption



Enables allocation of energy to areas in need



Efficiently manages costs



Provides remote meter reading



Sends real-time notifications on consumption



Adds value services



Provides coverage in hard-to-reach places



Supports customer relationship management (CRM)



Facilitates fraud detection



Allows for demand-side management (DSM)

SMART METERING TODAY

SMART METERING IN THE FUTURE



The EU has 281 million metered electricity customers.



By 2020: The Installed Base of smart electricity meters is forecasted to grow at a compound annual growth rate of 15.8 percent.



The Annual Demand for smart meter installations ranges between 12-16 million units.



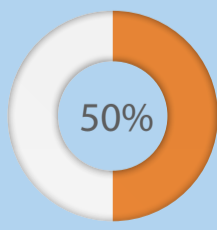
53 Million Smart meters will be installed for 30 million homes and businesses.



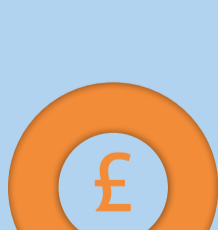
The Total Installed base of advanced electricity and gas meters among the largest energy retailers in the UK was 1.7 million units in Q2-2014.



The Installed Base of smart meter network gate ways is forecasted to grow at a compound annual growth rate of 40.5 percent between 2014 and 2020 and will reach 7.5 million units at the end of the period.



Smart Meters Accounted for almost 50 percent of the total electricity meters in 2014.



Smart Metering for electricity and gas will deliver a net benefit of £7.1 billion (£4.8 billion NPV).

CONCLUSION

The transition between analog and smart meters is an inevitable and rapidly approaching reality. Switching to smart meters today could help save money and manage energy consumption efficiently with the provided real-time notifications from smart meter monitoring devices.



About Aeris

Aeris Communications, Inc. (Aeris) is a pioneer and leader in the machine-to-machine (M2M) market, an integral part of the Internet of Things, (IoT). We are both a technology provider and a cellular network operator delivering comprehensive M2M/ IoT services to leading brands around the world. In other words, we put the "Internet" in the Internet of Things.

Sources:

Berg Insight: Smart Metering in Europe

Research Analysis: Technology Non-Cellular M2M: Low-Power Wireless WAN and White Spaces

Aeris: <http://www.aeris.com/for-enterprises/utilities/>

Energy Saving Trust: Smart Meter Controls