



Workshop Smart Metering

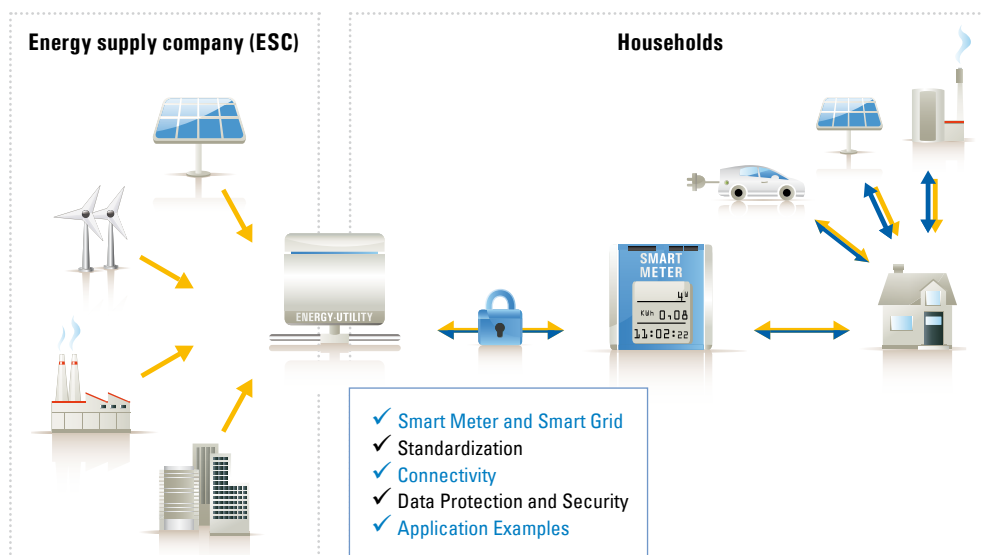
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Understanding and Implementing Network Management and Security Concepts

Intelligent energy networks are diminishing the borders between energy suppliers and energy consumers. They require innovative systems for collecting and processing consumption data. Smart Metering creates a multifunctional bridge between the grid and the household using intelligent consumption meters for electricity, water and gas. Energy producers and suppliers of electri-

city meters must face the challenges of an increasingly flexible electricity market. By analyzing actual case studies, the goals of the workshop are to provide the participants with an introduction to state-of-the-art network management, especially Smart Metering, and to enable them to discuss approaches to establishing Smart Metering in their own business.

Ensuring the Secure Flow of Data



↔ Energy ↔ Reference data (e.g. rates)
Transmitting and recording consumption data



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Module 1: Network Management

Module 1 addresses basic issues of Smart Metering, focusing in particular on standardization and connectivity. Participants familiarize themselves with the relevant standards and gain an overview of the present state of activities at national and international level.

- **Smart Metering in the Smart Grid**
 - Smart Metering scenarios
- **Standardization**
 - Smart Meters as measuring devices
 - Smart Meters as components of the Smart Grid
 - Technical and regulatory requirements
- **Connectivity**
 - Communication technologies
 - Wired technologies: power line, twisted-pair cabling, ect.
 - Wireless technologies: WLAN, wireless M-Bus, ZigBee, ect.

Module 2: Safety and Security Solutions

Module 2 addresses issues in functional safety and information security. The participants learn about the criteria that Smart Metering systems and their communication units must fulfill to be safe and secure, and gain an overview of the relevant directives and standards.

- **Smart Metering**
 - Requirements for safe and secure communication
 - User profiles and privacy
- **Technical standards and directives**
 - BSI protection profile
 - TR 03109
 - IEC 62351
 - Comparison with international requirements, recommendations and solutions, e.g. NISTIR 7628
- **Application examples**

TÜV SÜD – Outstanding service with compelling reasons

The experts from TÜV SÜD have many years of experience in all matters concerning the secure collection and transmission of data. Energy suppliers can guarantee their customers the highest security standards with TÜV SÜD as a reliable partner.

The workshop targets decision-makers and specialists from energy supply companies and manufacturers of metering systems. Workshop Module 2 builds on the knowledge gained in Module 1 but can also be booked separately.

Contact us today – our experts will be happy to assist you with detailed advice:

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