Energy Metering (eMetering)  
Making Sense of Smart Meter Data

What is eMetering? NEC eMetering solution amalgamates Advanced Metering Infrastructure (AMI) together with a Meter Data Management System (MDMS) to seamlessly measure, collect and analyze energy usage for long term data storage, and then integrating to existing enterprise applications to help streamline utility business processes.

NEC eMetering - AMI component enables the deployment of smart meters over various communication means via a multi-hop data routing system. The plug-in communication unit provides flexibility to cope with changes in communication media.

NEC eMetering - MDMS component enables meter data management for massive numbers of smart meters to support billing, customer service, outage management and analysis of utility operations.

What will NEC eMetering mean to you? It will mean greater business integration and the streamlining of utility business processes. This will enable consumers to make more informed choices on energy use, participate in energy supply contracts and leverage innovative new energy services for a Smarter City, and a Greener Earth.

Key Features

Smart Meter Deployment Planning and Management - NEC eMetering solution enables smart meter deployment and management and automated meter provisioning and many other functions such as:
- Meter and network asset monitoring and management
- Automated Smart Meter Positioning
- Automated validation, editing and estimation (VEE) of meter data
- Revenue protection business processes automation and reporting
- Customer information portal, use and billing analysis information

eMetering Platform - NEC eMetering solution interfaces with other systems such as utility billing, outage management, workforce management and asset management. NEC eMetering also provides remote connect / disconnect of meters as well as other advanced features.

About NEC Asia Pacific Pte. Ltd. A wholly owned subsidiary of NEC Corporation in Singapore, NEC Asia Pacific is a leading information technology services provider that specializes in systems integration and consultancy services. NEC Asia Pacific provides regional sales and services support for world-class identity solutions, turnkey implementation of mission-critical solutions, project management and maintenance services.
NEC eMetering Ecosystem

NEC eMetering architecture encompasses high-level security that includes physical, network, and cyber security, as well as access authentication. This brings about minimal risk to grid security and minimal chance of grid failure.

The Japan-U.S. Smart Grid Collaborative Demonstration Project

The New Energy and Industrial Technology Development Organization (NEDO) selected 19 participants, including NEC, for the Japan-U.S. Smart Grid Collaborative Demonstration Project to be conducted in the State of New Mexico of the United States after carefully evaluating the results of a feasibility study that was started in January 2010.

The project is being carried out by NEDO, Los Alamos National Laboratory and Sandia National Laboratories of the U.S. Department of Energy. The total budget for the project is $3 billion yen.

NEC’s involvement include:

• Power Line Communication (PLC) between smart grid and houses for the Microgrid Project in Los Alamos
• Technology capability to stabilize electricity supply and for Smart House Project in Los Alamos
• Information and communication technology and cyber security for the Smart Grid as part of the collective research on the overall New Mexico project

For more information, visit www.nec.com.sg or contact us at energy@nec.com.sg