



Energy Services Network Association
NES User Group

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Content:



Member news

- Echelon and ELO - Announce Second Meter Source for NES System
- SEAS-NVE and Panasonic start pilot of home energy management combined with Smart Grid
- EVB Energy solutions - Recommendations for a sustainable meter-management
- Ferranti – MECOMS, its packaged implementation approach
- Ubitronix - Innovative Metering Systems
- GÖRLITZ presents the MUC3 Controller for Multi Utility Communication
- Telvent - Gas Natural México selects Telvent to modernise...
- Duke Energy is taking a holistic approach to the Smart Grid
- GEO - The Energy White Paper
- Oracle Announces Oracle® Utilities Customer Care and Billing Release 2.3
- Fortum and the Chelyabinsk Region Administration initiate large-scale cooperation to improve energy efficiency



Market news

- Smart Energy Canada; Taking the Smart Grid to the next level in Canada
- ENEL - How Italy Beat the World to a Smarter Grid
- Eceee - Eco-design requirements for non-professional displays
- NIST Framework and Roadmap for Smart Grid Interoperability Standards, Release 1.0
- ERGEG - Final guidelines of good practice on electricity grid connection and access



Meet ESNA and its members at the following events

- [31 Jan. – 02 Feb. 2010; Smart Energy Canada in Toronto CA](#)
- [03-04 Feb. 2010; IIR event "Slimme Energie Infrastructuur 2010" in Soest NL](#)
- [22-24 Feb. 2010; Marcus Evens Event - Electricity Distribution Forum; Smarter Utilities for the Future in Berlin DE](#)
- [02-04 March 2010; Next generation Utilities in Bremen DE](#)
- [03-04 March 2010; EC Workshop "Demand response in Europe in Ispra IT](#)
- [10-11 March 2010; Smart Metering Scandinavia in Copenhagen DK](#)
- [29-31 March 2010; Smart grids Europe 2010 in Amsterdam NL](#)
- [03-04 April 2010; Metering China Conference & Exhibition in Xi'an CN](#)
- 13-14 April 2010; Eurelectric How will Smart grids change the face of Europe's electricity distribution and consumption? in Brussels BE
- 25-26 May 2010; IET Smart Grid conference in London UK
- [09 June 2010; Marketforce Smart Metering Update event in London UK](#)
- 16-17 June 2010; SMI Realisation of the future



Member News

Echelon and ELO Announce Second Meter Source for NES System

Echelon Corporation today announced that it has entered into a technology licensing agreement with ELO Sistemas Eletronicos (ELO) under which ELO will develop and market smart electricity meters based on Echelon's market-leading Networked Energy Services (NES) smart grid infrastructure solution. This new agreement expands on the NES value-added reseller relationship announced in November of last year.

The parties intend to initially focus on the Brazilian and select Latin American smart meter markets, representing over 100 million electricity meters. ELO is the leading supplier of digital electricity meters in the Brazilian market, with an estimated 40 percent market share.

In October of this year Brazil's energy regulator, Aneel, announced tentative plans for a nationwide rollout of smart metering, expecting to replace approximately 63 million electricity meters in the country with smart meters by 2021.

"Today's announcement is important for many reasons, and it represents a critical step forward in a large, emerging market with a market-leading partner," said Michael Anderson, Echelon's senior vice president, NES sales and market development. "With nearly 30 years of local experience and the largest meter market share in the country, ELO is an ideal partner for establishing the NES system as a market-leader in Brazil and throughout Latin America."

Anderson continued, "This announcement is also an important step into the enormous Latin American market for Echelon with an outstanding and proven partner and demonstrates the openness of our strategy. The NES system is an open, standards-based platform for the smart grid: open to application developers through web services; open to operate with any Internet protocol based network; open to expansion to in-home and other devices through the meter's secure expansion interface; and, as announced here today, NES is open for use with meters developed and sold by other manufacturers."

[To read the whole announcement...](#)

SEAS-NVE and Panasonic start pilot of home energy management combined with Smart Grid

Intelligent energy management for the home to be showcased during COP15 Climate Conference in Denmark

Panasonic Europe today announces a collaboration with SEAS-NVE, Denmark's largest consumer-owned energy company, to start pilots of a smart energy management system that will pave the way for the eco-homes of the future in Europe. To highlight how technology can help realise the goals of COP15 in Copenhagen, a prototype model house will be showcased during the conference utilizing Panasonic's Lifinity Home Energy Management System (HEMS) and SEAS-NVE's Smart Grid to intelligently manage the energy consumption of appliances, lighting and heating.

"This European collaboration represents the first step towards deploying the Panasonic Energy Management System on a broad scale," said Laurent Abadie, CEO Panasonic Europe. "The Panasonic Energy Management System incorporates our latest technologies to save, create and store energy in the home and reduce harmful emissions. Combined with Smart Grid, our smart management of home energy consumption will help realize a greener lifestyle without intruding on day-to-day lifestyles."

Panasonic's Lifinity HEMS developed by Panasonic Electric Works Co., Ltd helps households to achieve energy-savings by visualizing energy usage from a smart meter reading, providing ecology advices, and controlling heating, lighting, and appliances locally or remotely by using multi-displays as a user interface like its proprietary control panel, PCs, and/or smart phones. Networked sensors and

appliances, cooperating with Lifinity's core HEMS technologies, keep on improving entire house energy usage without losing comfort.

"Lifinity HEMS will give future energy consumers full control of their electricity and heat consumption", says Mr Thomas Mikkelsen, Head of Marketing, SEAS-NVE. "The system also connects directly to their smart phones, making it possible to switch home appliances on and off remotely. Panasonic have long been pioneers in environmentally-friendly home technology and we are looking forward to this cooperation and the great opportunities it will provide for our customers".

The SEAS-NVE Smart Grid is based upon the Echelon suite of integrated electronic electricity meters accessed via a web services based network system over an IP networking infrastructure. Multiple meters can share a single IP connection enabling the system to easily incorporate new wide area networking technologies.

The timeline for prototyping the eco-home will run through two phases before deployment in many of the 350,000 homes of SEAS-NVE customers.

[To read the whole article...](#)

EVB Energy solutions - Recommendations for a sustainable meter-management – Specifications for Energy-services companies based on German regulators and market.

The German energy services and distribution market is on the move, as a consequence of the new Energy act (EnWG), liberalisation of the meter market (MessZV) and increased competition due to one open European Market. Especially small and middle-sized energy-services companies will have difficulties to maintain their customers and related turnover. New services is the key-word to compensate these losses. What challenges energyservices companies can take from the new market situation and new regulator is the objective of this German study, called "Handlungsempfehlungen für einen wirtschaftlichen Messstellenbetrieb", a common project from EVB and DIEHL Energy Solutions. This study gives a short-term view on the development of the energy services companies and a long-term outlook when Smart Metering is an integral part of their business process. One of the conclusions of this report is that those companies have to act now, time is crucial, in changing their processes. The consequence is a need for energy services companies to introduce external competence now for a successful process of change to revitalise the company and to be ready for the times to come.

[To read more \(in German\)...](#)

Ferranti – MECOMS, its packaged implementation approach

MECOMS for Microsoft Dynamics Ax streamlines your business processes such as financial management, metering processes, billing processes and cash collection. Making use of our best practices business blueprint template model, integrated process modeling tool and extensive documentation, customers and implementation partners have the right tools for a successful implementation.

When implementing a packaged application, the primary objective is to map the application on the business processes and organization it will support.

The MECOMS product supports this approach perfectly; implementation partners can make use of the detailed Business Process Templates for different roles & models in the market.

Configuration & implementation can be discussed with the customer during a Conference Room Pilot Session, making use of this standard model. Such a session is a thorough walk-through of the business processes and a display of the application using a demo dataset.

Conference Room Pilot sessions will help the project teams develop the model for business processes that the application will use. The CRP sessions will also identify software gaps and refine the configuration of the software.

[To read more...](#)

Ubitronix - Innovative Metering Systems

In liberalized energy markets the commercial success of a distribution provider can only be ensured and enhanced through an extensive optimization and automation of all business processes and the development of new business areas. This includes both Automated Meter Reading (AMR) and Automated Meter Management (AMM), which enable the companies to automate their metering activities extensively.

Unified Intelligent Energy Management (Unified IEM) forms the core of all solutions provided by ubitronix. Unified IEM Meter Management, as part of our product family, covers the whole bandwidth of Automated Meter Reading (AMR) and Automated Meter Management (AMM). Due to the expandable system architecture, it is at any time possible to expand our systems with additional modules, such as Unified IEM Street Lighting, or Unified IEM Power Quality Monitoring.

Automation of Business Processes

Unified IEM Meter Management offers a complete solution, which complies with all requirements of the liberalized energy market, and covers all aspects of automated metering.

Utilities can take advantage of an infrastructure which is based on electronic energy, gas, water, and heat meters, powerful data integrators, and the central Unified IEM Meter Management Server Software, which is based on Echelon's NES Software. Built on standards and modern concepts, Unified IEM Meter Management provides our customers with an adaptable and expandable infrastructure and strengthens their market position through the automation and optimization of their business processes.

[To read more...](#)

GÖRLITZ presents the MUC3 Controller for Multi Utility Communication

Existing electronic meters can be upgraded with the MUC3 Controller, to enable the consumption data for electricity, gas, water and heat to be read remotely. The youngest member of the MUC product family from GÖRLITZ may be seen at the international trade fair and congress, E-world energy & water 2010, from February 9-11 2010, in the Messe Essen, Hall 2, Stand 254. The MUC³ Controller has been developed on the basis of the European Standardisation Mandate M/441 and provides the means for a modular and configurable reading of all energy types. "Existing electronic meters are therefore furnished for smart metering and the utilities are assured that investments made to date in metering technology will endure in the future", stated Dr. Michael Krumpholz, CEO at GÖRLITZ AG. The MUC³ acts as a communication gateway and connects the measuring, control or visualisation devices (e.g. meters, sensors, actuators or customer displays via a data network or mobile communications with the utility's infrastructure. Thereby meters for electricity, gas, water and heat may be easily integrated in existing AMR processes. The controller is available in four different versions and is fully equipped for the impending requirements of a mass installation, because only the mechanical connections must be observed during the installation. The configuration is effected either automatically or process controlled remotely. "As specialists in the field of communication and metering technology, we deploy our expertise for intelligent solutions, which on one side satisfies the requirements of the European Energy Industry and on the other side, assists energy utilities to engage in smart metering, even at short notice", emphasised Dr. Krumpholz. Measuring devices that feature standardised interfaces can be retrofitted with this technology.

[To read the whole article...](#)

Telvent - Gas Natural México selects Telvent to modernise 15,000 km gas distribution network into state-of-the-art secure system

Advanced control and information management solution improves efficiencies of system delivering supply to more than 1.2 million customers throughout Mexico.

Telvent announced a new contract with Gas Natural México S.A. de C.V., to deliver a turnkey technology solution to control its extensive natural gas distribution network.

Gas Natural will increase the efficiency and security of its 15,229 kilometres of gas network, ensuring supply to 1,250,000 residential and industrial customers in 38 municipalities of the country. Accurate, real-time field information will be integrated into Gas Natural's enterprise information systems to optimize processes such as billing and inventory management.

[To read the whole article...](#)

Duke Energy is taking a holistic approach to the Smart Grid

Smart Grid technologies are transforming today's analog power delivery system into a digital, interconnected network that delivers new ways for Duke Energy and our customers to work together to manage energy usage, save money and help the environment.

With technologies like smart meters, automated switching devices and wireless sensors, information will flow in two directions – enabling conversation and benefits never before possible with an analog grid system.

Smart Grid benefits, Smart Grid technologies enhance service and reliability, and create more opportunities for our customers, our company and the environment.

For our customers, it means more reliable service, quicker response to outages, and new information and tools to help them better manage their energy use – and their monthly energy bills. Smart meters will provide quicker access to energy data and show homeowners the real cost of operating appliances and electronics. Combine this technology with home energy-management devices, and customers will be able to program their dishwashers, water heaters, air conditioners and other appliances for greater efficiency.

[To read more...](#)
[To see the video...](#)

GEO - The Energy White Paper

The current Energy White Paper proposes and encourages the introduction of Smart Meters. One of the government's key reasons for supporting a smart meter roll out is the expectation that they will bring about significant energy savings and help meet CO2 reduction targets.

Arguably, it is the real time displays that come with the meters that will actually deliver the energy savings. However, the majority of displays currently being demonstrated and trialled are relatively simple, low cost, numerical type displays. In our opinion, whilst useful, these simple displays will only yield a fraction of the savings that can be achieved by more innovative display techniques, and much of the benefit the government expects from this multi-billion pound investment programme will be lost if simplistic displays alone are effectively mandated.

The challenge is to bring about the introduction of innovative user interfaces that will:

- Produce more than a base minimum effect on user behaviour
- Communicate a complex topic in simple terms
- Hold people's interest in the long term
- Provide accurate information that does not conflict with bills

[To read more...](#)

Oracle Announces Oracle® Utilities Customer Care and Billing Release 2.3

Enhancements help utilities to boost customer service, further support Smart Grid initiatives, reach new markets and lower total cost of ownership

Oracle announced the availability of Oracle Utilities Customer Care and Billing 2.3, which includes enhancements that help utilities boost their customer service, further support their smart grid initiatives, reach new markets and lower total cost of ownership.

Oracle Utilities Customer Care and Billing helps customers manage all aspects of the utility customer lifecycle including service connection, meter read management (index and interval), complex billing, payment processing and debt collection. In addition, the product also supports associated functions like field service, meter management, sales and marketing and conservation management, while providing a very flexible rating engine and efficient contact center management application.

[To read more...](#)

Fortum and the Chelyabinsk Region Administration initiate large-scale cooperation to improve energy efficiency

Fortum's Russian subsidiary OAO Fortum and the Chelyabinsk Region Administration have agreed on extensive cooperation in the area of energy efficiency. According to the Memorandum of Intentions signed in the course of the Russian Energy Minister Sergey Shmatko's visit to Finland on 28 January, the parties intend to implement a number of energy efficiency measures during 2010-2012 in the Chelyabinsk region. These measures aim to reduce environmental impacts and promote efficient use of resources.

The largest operation in the programme is the automation and upgrade of the Chelyabinsk district heating system, which will reduce energy losses in the area by over 30% as well as significantly decrease fuel consumption and emissions. A project this size is unique in Russia and will be partly funded by raising the district heating tariffs controlled by the region's administration. Once completed, consumers will be provided with uninterrupted and more affordable supply of district heat.

[To read more...](#)



Market News

Smart Energy Canada; Taking the Smart Grid to the next level in Canada

The challenge of creating a greener and, at the same time, sustainable energy sector in Canada through technology will be the main theme at a high-level gathering of Ontario's top utility professionals in Toronto later this month. More than 60 experts will address the Smart Energy Canada and Canadian Water Meter Summit conference and exhibition in what the industry regards as Canada's most important smart energy event, taking place from January 31 to February 2, 2010.

[Read the whole article...](#)

ENEL - How Italy Beat the World to a Smarter Grid

An aggressive rollout of intelligent electrical meters is saving Italy's Enel \$750 million per year—and cutting customers' bills. [By Mark Scott, BusinessWeek](#)

After several false starts, 2010 finally could be the year when smart meters go global. The technology, which lets energy companies and consumers more closely monitor their electricity consumption, has many champions. The U.S. government has earmarked \$4.5 billion from the stimulus package to subsidize the rollout of smart meters nationwide. European Union politicians are pushing hard to connect 80% of the region's homes and businesses to smart meters by 2020. Even emerging giants like India and China aim to install the technology in new buildings.

But with billions of dollars on the line, policymakers don't want to make costly mistakes. Many of them are thus eyeing the remarkable experience of Italy, which in less than a decade has become the

surprising world leader in the development of a smarter electrical grid. Some 85% of Italian homes are now outfitted with smart meters, the highest percentage in the world and more such devices than exist in the whole of the U.S. Utilities worldwide, such as San Francisco's PG&E and Florida's FPL Group, are eager to learn how Enel pulled off its smart meter revolution.

[To read the whole article...](#)

Eceee - Eco-design requirements for non-professional displays: Comments from eceee on the amended proposal

eceee welcomes the proposal to make monitors compliant with higher Energy Star specifications earlier than previously proposed, and that the scope has been extended to screens beyond 30 inches. However, we regret that energy labelling requirements are not introduced at this stage, given the trend for computer displays and TVs to converge into the same products. For a more detailed statement on eceee's views, please see our comments from October 2009.

[To read to whole article and corresponding file...](#)

NIST Framework and Roadmap for Smart Grid Interoperability Standards, Release 1.0

This document is the output of the first phase of the NIST plan. It describes a high-level conceptual reference model for the Smart Grid, identifies 75 existing standards that are applicable (or likely to be applicable) to the ongoing development of the Smart Grid, specifies 15 high-priority gaps and harmonization issues (in addition to cyber security) for which new or revised standards and requirements are needed, documents action plans with aggressive timelines by which designated standards-setting organizations (SSOs) will address these gaps, and describes the strategy to establish requirements and standards to help ensure Smart Grid cyber security.

The document was drafted through an open public process that engaged the broad spectrum

[To download this report...](#)

ERGEG - Final guidelines of good practice on electricity grid connection and access

Recent experiences during large disturbances in European power systems have indicated that the security of the power system has been in danger when generation and consumption units have tripped from the system in an uncoordinated and uncontrolled manner due to different national requirements on tolerating voltage and frequency variations. These different frequency and voltage requirements within national grid connection and access rules increase the probability of more severe disturbances when national power systems become more interlinked through market integration. Emerging disturbances are therefore more likely to spread across several countries. Thus some minimum requirements should be set for the voltage and frequency variations of generation and consumption units to be connected within a synchronous area.

The recent large disturbances have shown that uncoordinated reconnection of generation units, especially distributed generation, when the system is in a disturbed operating state has endangered the rapid restoration of the power system to normal operating state. This has partly been due to the lack of real time information on the status of this generation. The secure operation of the power system requires information exchange between the Transmission System Operator (TSO) and distributed generation connected to the Distribution System Operator (DSO) network.

[To download the guidelines click here and on the site on 2010-01-15](#)

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