

Newsletter // March 2011

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Meet ESNA and its members at the following events

- [01 April 2011; Smart Electricity World Africa 2011 in Johannesburg SA](#)
- [05-06 April 2011; ETSI workshop; An architecture for the Smart Grid in Sophia Antipolis FR](#)
- [11-15 April 2011; SZ&W Strong Smart Grid Week 2011 in Beijing CN](#)
- [19-21 April 2011; MeteringChina 5th annual Conference & Exhibition in Guangzhou CN](#)
- [05-07 May 2011; Smart Grid Tec China 2011 in Shanghai CN](#)
- [10-13 May 2011; ISGA International Smart Grid Congress in Beijing CN](#)
- [16-17 May 2011; Oliver Kinross Utilities, regulation & Smart metering in Istanbul, TR](#)
- [18-19 May 2011; SMI – Demand Response & Critical Peak pricing Europe Forum in London](#)
- [18-19 May 2011; ACI – Energy storage Summit in Turin IT](#)
- [31 May-1 June 2011; EIT - Smart Grids: Transforming generation, distribution and consumption](#)
- [01-02 June 2011; Smart Grid Technology Conference 2011 in San Jose, CA](#)
- [02-03 June 2011; Synergy Smart Metering UK & Ireland in London](#)

- [07-08 June 2011; Fleming Europe – The 2nd Annual Smart Grids – Smart cities in Lisbon PT](#)
- [12-14 June 2011; CIO – Utilities Summit in Scottsdale Arizona USA](#)
- [13-14 June 2011; IIR Poland – Front office and supporting tools – Energy sector in Warsaw PL](#)
- [14-16 June 2011; Oliver Kinross – European Smart metering & Grids week in London, UK](#)
- [15-16 June 2011; SMI – Realisation of the Future Smart grid in London UK](#)
- [23-24 June 2011; CIR Smart Grids & Cleanpower Conference in Cambridge UK](#)
- [28-29 June 2011; IQPC – The Smart grid Summit 2011 in London UK](#)
- [13-16 Sept. 2011; SZ&W World Smart Grid – India Week 2011 in Mumbai IN](#)
- [14-16 Sept. 2011; CDMC - 3rd Annual China Smart grid Forum 2011 in Shanghai CN](#)
- [21-22 Sept. 2011; ACI – Smart Grids: Vision, Strategy, Implementation in London UK](#)
- [22-23 Sept. 2011; Terrapinn – Power generation World Caspian 2011 in Baku, AZ](#)
- [18-20 Oct. 2011; SZ&W World Smart Grid – Middle East Conference 2011 in Dubai UAE](#)
- [08-11 Nov. 2011; SZ&W World Smart Grid – China Focus 2011 in Beijing CN](#)



Member News

Eltel secures a new Smart Grid Contract for NRGI in Denmark

New Advanced Metering Project Adds to Eltel's Market Share Lead of more than 60% on the Danish market; Project to Rollout over 18 months.

The fourth largest utility in Denmark, NRGI, has selected Eltel to implement Networked Energy Services (NES) smart grid control system throughout its services territory. The system includes Echelon software for sensing, monitoring and control applications for the low voltage grid and smart meters for 150,000 homes and businesses. With this latest win, Eltel, working with technology partner Echelon Corporation, has secured more than 60 percent of the Danish utility awards for advanced metering systems, resulting in clear market leadership for Eltel based on technology from Echelon. "At NRGI, our mission is to use innovative and sustainable solutions to be one of the strongest brands in energy, and we strive to give our customers tools to be active participants in this mission. Eltel stood apart from other choices because they can help us achieve these goals." said Soren Sorensen, CEO of NRGI. "We continue to delight our customers with the reliability and performance we've experienced with the NES open and extensible system, along with high-value system features, such as Automatic Topology Management, power quality sensing and energy savings products we can introduce into the home. With the NES system we are implementing an extensible smart grid control solution rather than just smart meters."

[To read more...](#)

Echelon Surpasses 300,000 smart meters in Russia with PermEnergy Smart Metering Pilot Win

Control network deployed by partner ENERGOAUDITKONTROL targets energy savings of 20% and follows successful Russia-US smart grid summit

Echelon Corporation announced that its NES Energy Control System has been selected as one of five solutions in a 50,000 home smart metering pilot project by PermEnergy, part of the MRSK group, one of Russia's largest utilities. Echelon value added reseller Engineering Center ENERGOAUDITKONTROL was awarded a contract for networking 10,000 homes in a pilot project that is being monitored by the Russian government as a potential model for the country. With experience networking over 300,000 smart meter points in smart grid projects using Echelon's Networked Energy Services (NES) smart grid infrastructure system, ENERGOAUDITKONTROL is the

leading smart grid services provider in Russia. PermEnergo expects the pilot project to save its customers up to 20% of their electricity usage while lowering its operating costs and improving the overall efficiency of the grid. Installation is expected to begin over the summer and be completed by the end of 2011.

[To read more...](#)

GÖRLITZ - Half-time in Denmark: Successful smart metering rollout

600,000 fully automated smart meters will be installed in Denmark by the end of 2011. This ambitious objective requires, apart from extensive planning and agile technicians a robust hardware and reliable software. We are well on the way: over 300,000 smart meters transmit the actual consumption data to the GÖRLITZ control station at hourly intervals every day. The project is even more successful than expected – not only for the Danish contractors but also for GÖRLITZ, the system provider in Koblenz. A cause for celebration in the north and on the Rhine. The energy company in Jutland EnergiMidt have already installed 100,000 of the targeted 180,000 smart meters and connected them with the GÖRLITZ software EDW3000. And EnergiMidt does not stop there: they continue collaborating with GÖRLITZ to optimise the processes and plan the immediate integration of protocol related applications.

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

EVB Energy Solutions – 4th report: Potentials for procurement optimisation with Smart Metering - Recommendations for Utilities

Today's purchasing prices for energy supply companies (utilities) are already subject to significant fluctuations, one of the main reasons is the difficulty in predictable supply of renewable energy sources, like wind and sun.

A mixed calculation of risk and security surcharge determined - at the moment - the retail prices. The report shows the possibilities and some arising opportunities through the use of smart meters. Fact is that it is quite profitable for a utility to make use of its own load profile for planning and forecasting, but what about the financial planning, if their customers fluctuate?

Based on the available data, standard load profiles for electricity applied at representative customers have proven to be rather accurate, so far no information is available to what extent changes in the customer base and, especially among certain groups of customers with specific consumption patterns, will affect the utility's profile.

In addition, the current load profile for gas, used for billing, seems to be of limited use. The various utilities have been reported strong differences between to the profile planning projections, forecasts and the actual consumption. It is therefore a "procurement optimisation" - and the opportunities that smart metering can provide the utility here.

This report examines from A; adjustment, through C; customer clusters' standard load profiles, up to P; portfolio management. The report is a joint project of the EVB Energy Solutions and Trianel.

For more information please contact: Ms. Sina Luckhardt - s.luckhardt@evb.net

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

Telvent - GRTgaz entrusts Telvent to control the gas transmission system in France

Delivering state of the art security, reliability and flexibility to the largest gas transportation network in Europe

Telvent announced that it will deliver its advanced supervisory control and data acquisition (SCADA) technology to new customer GRTgaz. GRTgaz owns and operates the GDF Suez gas transportation network in France. The contract for the project is secured until 2013.

Telvent's OASyS Dynamic Network of Applications (DNA) is a highly distributed real-time platform that seamlessly integrates all of a company's tools under a single umbrella of centralized, standardized hardware and software. Its open architecture, combined with a uniform, intuitive interface, will provide GRTgaz with vital, real-time information for greater security, reliability, innovation, flexibility and responsiveness.

With increasing gas consumption in Europe, secure infrastructures like those provided by OASyS DNA are significant to ensure a reliable gas supply to millions of people. This is critical as GRTgaz's gas transportation network is Europe's largest — spanning 32,000 km in France alone and transporting nearly 68 billion cubic meters of gas annually. The network is also comprised of 25 compressor stations, eight interconnections with other enterprises' networks, and 4,600 delivery points — including 900 industrial customers.

[To read more...](#)

EATON - Overcoming Eight Common Power Management Challenges

How intelligent, logical and complete power management solutions provide relief for some of today's worst power-related headaches

Today, many organizations use standalone software from multiple vendors to monitor and manage their uninterruptible power systems (UPSs), power distribution units (PDUs) and other crucial power quality and environmental devices. Short on features and poorly integrated with other management resources, these outdated applications only add further complexity to a variety of common power-related administrative challenges.

This white paper discusses eight such challenges, and shows how a new generation of intelligent, logical and complete power management solutions can help data center managers tackle each of them effectively and efficiently.

[To download EATON's White Paper...](#)

Ferranti - Stadsverwarming Purmerend uses MECOMS™ to increase service while lowering costs

Stadsverwarming Purmerend has chosen for MECOMS™ to insource its front and back office activities and gain back control. MECOMS™ enables Stadsverwarming Purmerend to increase customer satisfaction and payment rates while reducing the operational cost by approximately 20%. It also allows them to be more flexible and quickly cope with any future changes.

Stadsverwarming Purmerend (SVP) is the district heating company of Purmerend, a city in North-Holland (The Netherlands). SVP was founded in 1981 as a municipal company and gained independence in 2007.

Before the privatisation, the municipality of Purmerend had outsourced the front and back office activities to a third party with its own, external, IT platform. The financial accounting was done on the IT systems of the municipality. Under these arrangements, getting insight into business performance was complicated.

Walter Verdonk: "The flexibility of MECOMS™ has enabled us to rapidly adapt some of our processes since the new system went live. And last but not least: our costs have gone down by approximately 20%. MECOMS™ has played a crucial role in turning our business operations around. The satisfaction and payment rate of our customers are higher than ever, while our operational costs have gone down significantly. Our company is now well prepared to cope with any future changes."

[To read the whole project case...](#)

Oracle - OpenLink Implements Advanced Grid-Based Energy Trading Platform with Oracle Coherence

Oracle Coherence Enables OpenLink to Provide High Performance, Fault Tolerant and Scalable Real-Time Views of Position Data to its Customers

OpenLink, a global provider of cross-asset trading, risk management and related portfolio management software solutions for the commodity, energy and financial services market segments has built an advanced grid-based energy trading platform using Oracle Coherence.

OpenLink's Active Data Services (ADS) leverages Oracle Coherence for a compute grid-based architecture that calculates and maintains risk, credit and physical position data throughout the trading day and is capable of supporting millions of rows of real-time data. The solution is designed to meet the needs of OpenLink's largest customers, which include Shell, Vattenfall, BP, E.ON, JPMC, Deutsche Bank, Credit Suisse and Merrill Lynch.

[To read more...](#)

Vattenfall - First turbine installed at Ormonde Offshore Wind Farm

Vattenfall yesterday hailed a world class engineering achievement with the installation off Cumbria of one of the world's largest offshore wind turbines.

The 153 metre wind turbine, weighing in at 661 tonnes is the first of thirty to be installed in the coming months at the Ormonde Offshore Wind Farm.

At night on the 22 March the REpower 5M 5 megawatt (MW) wind turbine was installed by a team of Vattenfall and REpower engineers and the crew of the SeaJack, which is a specially designed wind turbine installation vessel.

The SeaJack, which carries components for two wind turbines, will now move onto a second foundation and install the other turbine in its cargo.

The REpower 5M is among the largest offshore wind turbines in the world and the Ormonde Offshore Wind Farm will be the largest commercial deployment of the wind turbine.

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

GEO helps Fortum Sweden take control...

Green Energy Options (GEO) partners with Fortum, Sweden to supply their Solo energy monitor to the Stockholm area and beyond

Fortum Sweden is enjoying the successful launch of their 'Take control of your energy,' campaign which utilises Green Energy Option's Solo display and MyEnergy web portal. With the support of multiple advertorials and a TV campaign levels of interest from customers have exceeded expectations at Fortum and has resulted in GEO securing a 12-month supply contract.

The Solo is available to buy on the Fortum Sweden website or can be included in a contract at a reduced price (with payments spread across the life of the contract). The program ensures accessibility to the in-home display no matter what your budget. GEO's most popular trial unit has proved so effective that the scheme, originally focused on Stockholm is now available across Sweden.

[To read more...](#)

E.ON Sverige and Altor Fund III have reached an agreement

Altor will acquire 90.5% of the E.ON subsidiary ES, thereby becoming the new principle owner.

Altor is a private equity fund focused on investment and the development of medium-sized companies in Scandinavia. Altor Funds have several well-known trademarks in their portfolio, including Lindorff, Byggmax, Apotek Hjärtat, Carnegie, Helly Hansen, Dustin and Papyrus.

ES is an engineering and contracting company within the production and distribution of energy, for industry and the public sector. ES has a turnover of almost SEK 3 billion and 1,500 employees at over 60 establishments in Sweden and Norway.

[To read more...](#)

NUON - Hundredth charging station for electric transport in use

On the afternoon of Friday 4 March, Nuon and the municipality of Amsterdam put the hundredth public charging station for electric transport in Amsterdam. This charging station is located on the Johan Huizingalaan in Nieuw-West and is the first charging station in this municipal district. Nuon has now issued 300 charging cards to users in Amsterdam. The first charging station was installed in November 2009. In the last 12 months the use of the charging stations has multiplied fivefold.

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



Market News

European Energy Efficiency Plan: Commission gears up for more savings with renovation and smart meters

The European Commission today adopted a plan for saving more energy through concrete measures. Energy efficiency is a key tool for strengthening Europe's competitiveness and reduces energy dependence, while decreasing the level of emissions. The set of measures proposed aims at creating substantial benefits for households, businesses and public authorities: it should transform our daily lives and generate financial savings of up to €1000 per household every year. It should improve the EU's industrial competitiveness with a potential for the creation of up to 2 million jobs. Günther Oettinger, European Commissioner responsible for Energy, said: "Despite progress, our estimates show that we need a further decisive and coordinated action on energy efficiency, without which the EU will not meet its objective of 20% energy savings by 2020. It paves the way for the longer term policies needed to achieve a decarbonised and resource-efficient economy by 2050 and to place the EU at the forefront of innovation."

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The EU-Commission's new Energy Efficiency Plan

What is at stake?

Energy savings is one of the most cost effective ways to enhance security of energy supply, and to reduce emissions of greenhouse gas and other pollutants. This is why in 2007, the EU has set itself a target for saving 20 percent of its energy consumption by 2020.

The 20% objective translates into a saving of 368 million tons of oil equivalent (Mtoe) by 2020 compared to projected consumption in that year of 1842 Mtoe. This needs to be achieved by the EU as a whole.

According to the Commission's most recent projections, which take into account measures implemented at national and European level up to the end of December 2009, consumption in 2020 is expected to be 1678 Mtoe, equivalent to a saving of only 9% relative to the previous projection. This is illustrated on the figure below.

[To read more...](#)

Eaton becoming a force in electric vehicle charging stations

By Joyce Gannon, Pittsburgh Post-Gazette
Bob Donaldson/Post-Gazette

Eaton's Dale Jones hooks up a Mitsubishi all-electric car to the company's Type 3 commercial charging station.

After the Mitsubishi subcompact carefully backed up to a tank at a station on Commonwealth Drive in Marshall, the driver jumped out and began to fuel the vehicle.

But he wasn't pumping gas. He was charging the all-electric car's battery before hopping back in for a spin on Route 19 through the busy Cranberry commercial corridor.

The driver, Dale Jones, works for Eaton Corp., which is testing electric car chargers at its Power Systems Experience Center. Eaton's electrical sector for the Americas region, based in Moon, designs and develops the technology for the chargers that are already powering electric vehicles for consumers in South Carolina, California and elsewhere.

[To read more](#)

Eurelectric workshop considers how to deliver necessary power investments

Is the European electricity sector in a position to deliver the necessary investments to meet Europe's energy and climate targets for 2020 and beyond? This question was at the heart of a EURELECTRIC workshop on 8 March gathering industry representatives, European Commission officials, regulators and financial experts.

"The electricity sector is at the same time facing an unfavourable investment climate and an urgent need for sizeable power generation and infrastructure investments in the future," stressed EURELECTRIC Secretary General, Hans ten Berge, while opening the workshop.

[To read more...](#)

ON Wold – New Market report; Smart metering

The smart metering market increased 250% over the past two years for a global market worth \$4 billion in 2010.

North America deployments surpassed most predictions and 13 million electric AMI units were shipped. Longer term, Europe and Asia represent three times the market size potential and large scale rollouts are already completed, underway or planned in Italy, Scandinavia, Great Britain, France, and Spain.

Relentless energy demand and the challenges of building new power plants make building a smarter grid ever more urgent. Internet Protocol (IP) addressable devices, cloud services and the emergence of Home Area Networks (HANs) have created the needed infrastructure to support the deployment of hundreds of millions of smart meters over the next decade.

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NYT - Fear of Shortages Drives Panic Buying of Japanese Goods

By VERNE G. KOPYTOFF

SAN FRANCISCO — Tremors from the strong Japanese earthquake continue to rattle American businesses, even those companies that have experienced no disruptions in parts or supplies.

Businesses in a number of industries are trying to adapt to a new reality. No longer can they count on reliable access to critical supplies, a fact prompting frantic phone calls, contingency planning and product redesigns.

For instance, film and television producers, along with the companies that support them, are scrambling to stock up on commercial-grade videotape. A major supplier, the Sony Corporation,

closed its factories in Japan. Many studios say they face no shortage now, but there is a fear of a shortage — and that is all it takes to put companies on edge.

“Folks everywhere know there will be a shortage and are buying as much as they can,” said Thomas Engdahl, chief executive of Advanced Digital Services, which archives Hollywood shows and is among the many companies frantically calling videotape distributors. “It’s creating panic buying.” Short of parts, automakers including General Motors have slowed or stopped production at some plants. Other manufacturers like Nokia, the Finnish cellphone maker, have said they expect disruptions.

But even companies that have maintained relatively normal operations have had to hustle. In San Jose, Calif., just hours after the earthquake, employees of **Echelon**, which sells smart meters that monitor electricity consumption, held an emergency meeting to discuss the potential effect on their supply chain. Identifying every supplier from Japan was the top priority, said Russell Harris, Echelon’s senior vice president for operations.

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

NIST - Energy Usage Data Standard for U.S. Smart Grid Passes Key Advisory Panel Vote

The governing board of the public-private Smart Grid Interoperability Panel (SGIP) has voted in favor of a new standard important for two-way data communications between utilities and their customers, bringing the next-generation "smart" electrical power grid a step closer to reality.

The board voted on a foundational standard, an "energy usage data model," for the information used to communicate between utilities and the customer, and the way in which that information is organized. This standard is one of a number considered critical in creating an energy-efficient, modern power grid with seamlessly interoperable parts

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Harry Crijns
ESNA secretariat