

# Newsletter // April 2011

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### Meet ESNA and its members at the following events

- [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](#)
- [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](#)



# ESNA

Motor behind OSGP

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- [21-22 June 2011; IRR-NL – Energie metering & billing in Breukelen NL](#)
- [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](#)
- [29-30 June 2011; IIR Poland – Front office and supporting tools – Energy sector in Warsaw PL](#)
- [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](#)
- [21-22 Sept. 2011; SMI – Telecoms for Smart Grid in London UK](#)
- [22-23 Sept. 2011; Terrapinn – Power generation World Caspian 2011 in Baku, AZ](#)
- [04-06 Oct. 2011; Metering Europe 2011 / Smart homes 2011 in Amsterdam NL](#)
- [18-20 Oct. 2011; SZ&W World Smart Grid – Middle East Conference 2011 in Dubai UAE](#)
- [08-10 Nov. 2011; Intelligent Cities Expo 2011 in Hamburg DE](#)
- [08-11 Nov. 2011; SZ&W World Smart Grid – China Focus 2011 in Beijing CN](#)



## Member News

### **GÖRLITZ connects SAP and Metering with MDUS on IDSpecto**

The DREWAG in Dresden, one of the largest municipal utilities in Germany, continues long-time business relations; it has great confidence in the fourth generation of the GÖRLITZ solutions, the MDW/EDM system IDSpecto. The new software solution forms the interface between measuring devices, metering data, and the SAP-billing system of DREWAG. The SAP specific interface MDUS is used for this.

GÖRLITZ is developing this new product in close cooperation with the software companies Oracle® and SAP®.

The basic system IDSpecto is a JAVA® based software solution that can be implemented in different operation systems. The platform to be used may be chosen on the specification sheet. During the introduction phase, it is recommended to apply Windows® based server systems.

IDSpecto generates a measuring data repository based on incoming information “metering values”, “configuration data”, “customer allocation”, and “contract and tariff data”. On this basis market processes and company processes can be operated simultaneously.

The solution is built on modules and can be composed optionally. The conception of the system supports multi-tenant architecture with allowances for individual tenants. Views, interfaces, and restrictions can be set for individual handling. User rights can be limited easily according to their individual contracts. This, for example, allows connected grid operators viewing individual measuring devices. Tenants are bound to the market roles in the system; The view on data of different market roles is applied by different tenants.

The IDSpecto system is completely open to scaling and thus nearly unlimited. It is started by easy installations with collecting and processing of some 1.000 data series and, nevertheless, it may be extended for handling several million data series when extracting a respective physical system.

[To download the IDSpecto Whitepaper...](#)

### **Echelon Teams With Infor to Deliver Turnkey Building Energy Management**

Solution targets energy and maintenance cost reductions for over 70,000 commercial and industrial customers

Echelon Corporation announced that it has teamed with Infor, a leading provider of business application software serving over 70,000 customers, to deliver turnkey building energy management solutions for commercial and industrial customers based on Echelon's SmartServer and Infor's EAM

Asset Sustainability Edition product. This new offering analyzes energy use and trends affiliated with a facility and specific equipment to determine optimal maintenance, replacement, and upgrade strategies. The solution will be sold through both Infor's and Echelon's worldwide distribution channels, initially targeting a combined installed base of over 300,000 buildings featuring control networks based on Echelon's LonWorks® technology and more than 70,000 Infor customers in 125 countries.

"Our collaboration with Echelon helps us bring a solution to market on a common platform that serves our global business," said Mitch Rowe, Infor's VP and general manager, Global EAM Sales. "Infor EAM Asset Sustainability Edition looks at the actual efficiency of equipment as a function of energy use. Doing so identifies hidden maintenance related costs that can result in losses in the tens, even hundreds of thousands of dollars per year. This enables companies to become greener while dramatically lowering their cost of doing business."

[To read more...](#)

### **Telvent Selected to Implement Distributed Control System for Thermosolar Power Plants**

Smart grid solution will increase power plant efficiency while maximizing reliability for customers. Telvent announced that it has been selected to design, install and manage the distributed control system (DCS) for Abengoa's Solacor I and II thermosolar power plants in El Carpio, Córdoba, Spain. With this Telvent solution, plant operators will have the ability to control and supervise all solar plant processes in accordance with the most current climate conditions. For example, Telvent's control technology will allow operators to manage the position of the parabolic troughs at each 50-megawatt plant to efficiently capture the sun's energy. This creates a more efficient operation and maximum power reliability for customers

[To read more...](#)

### **Ubitronix - Stadtwerke Balingen; New orientation after an AMI fieldtest – Albstadtwerke replaces radio ripple control by Unified Intelligent Energy Management**

A major decision has been taken in the smart metering pilot of the Albstadtwerke and the Stadtwerke Balingen (2 Austrian city-utilities), in which two different energy management systems from different vendors have been tested: Balingen will complete its field test with a major German supplier and will switch over to the Unified Intelligent Energy Management of ubitronix.

The Stadwerke Balling has opted for the energy management solution, successfully tested since 2009, in the pilot of Albstadtwerke. The conversion will be quite simple: Balingen will use the Unified IEM as a client in the system of Albstadtwerke. "We switch over to ubitronix because it has been shown that its energy management system can be implemented in a more cost-effective way than the one tested by us. We are also convinced that Unified IEM has the functionality and above all the openness for the implementation of future requirements", explains Harald Eppler, technical plant manager at Stadtwerke Balingen, the decision.

[To the Ubitronix story in German...](#)

[To read the whole story in English on the ESNA site...](#)

### **Vattenfall - Offshore wind farm making powerful connections**

Vattenfall completes Ormonde electricity export cable. Vattenfall, currently installing a thirty-turbine wind farm off Barrow-in-Furness, finished three months of cable engineering works yesterday by completing the connection from the Ormonde Offshore Wind Farm to the National Grid.

The 42km export cable, which will take power from the wind farm to the mainland National Grid was simultaneously laid and buried in one uninterrupted operation from the shore to the offshore substation by Visser Smit. Vattenfall believes this is a UK first for a cable of that length and size. With 8 of 30 turbines now deployed at the energy company's pioneering offshore wind farm, the completion of export cable laying and connection works from the offshore substation to the Heysham onshore substation means that the generation of first power is only months away. Cable-laying between turbines and to the offshore substation continues.

Once the cables linking wind turbines to the substations are laid, engineers will work to enable the first turbines to receive power from the National Grid in a process known as 'energisation'. Energisation allows engineers to test internal systems in the wind turbines before being able to safely generate first power and export to the Grid.

[To read more...](#)

### **Ferranti's flagship product MECOMS™ has been included in the 2011 IDC MarketScape for Meter Data Management products.**

The IDC MarketScape vendor assessment represents IDC Energy Insights' opinions on which vendors are well positioned today with current capabilities and which vendors are best positioned to gain market share over the next few years. IDC Energy Insights divided key measures for potential success into two primary categories: strategy and capabilities.

#### **Major player in the industry**

IDC Energy Insights positioned MECOMS™ as a major player with regards to strategy as well as capabilities.

Roberta Bigliani, EMEA Research Director at IDC Energy Insights: "Overall, MECOMS™ has a very user-friendly look and feel. It is very attractive for utilities looking for a Microsoft-based technology platform."

"The strong relationship with Microsoft provides a solid foundation for MECOMS™. This not only from a technological platform point of view, but also toward implementation capabilities in a global context." says Dirk Wauters, CEO of Ferranti Computer systems.

[To read more...](#)

### **Liander and the municipality of Amsterdam sign cooperation agreement: Amsterdam Smart City continues**

Amsterdam Smart City announces a grand follow-up today during the event *Smart Stories*. The platform Amsterdam Smart City is an initiative of AIM (Amsterdam Innovation Motor) and grid manager Liander, part of network company Alliander. At the event Liander and the municipality of Amsterdam signed an agreement as the first two partners of the platform. The goal of this cooperation is to make Amsterdam the most environmental friendly and smart city of Europe. The focus of this cooperation will be on innovation, bringing organisations together, engaging the inhabitants of Amsterdam and testing & implementing of innovative technologies.

Eberhard van der Laan, the mayor of Amsterdam, explains: "The initiative Amsterdam Smart City received worldwide attention because of the partnerships to stimulate innovation and reduce CO2 emission. AIM and Liander played a very important role to make the project work. We congratulate Amsterdam Smart City on the successes of the past two years and we hope to see many more successful partnerships and projects in the future." "Amsterdam Smart City shows us how essential cooperating on an intensive level with all engaged parties is for the success of sustainable initiatives. We look forward to the next phase of Amsterdam Smart City to enable further sustainable innovations, partnering with parties such as the municipality of Amsterdam", says Peter Molengraaf, CEO of network company Alliander.

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

## **Echelon - Cities Across France Achieve up to 45% Energy Savings Using Echelon based Smart Street Lighting Systems**

French cities have deployed 30,000 Echelon based lights so far and plan for up to 250,000 by 2013. Echelon announced that its energy control technology for smart, networked street lighting systems is continuing to experience rapid adoption. Similar to its success in China, the market in Europe, and in particular France, is recognizing the advantages of Echelon intelligent distributed control solutions using power line communications (PLC) for reducing energy consumption and maintenance costs of municipal street lighting. The street lighting solution includes Echelon's power line signaling technology for distributed control, Echelon SmartServers for segment control and enterprise connectivity, and system software from French company Streetlight.Vision.

Studies have shown that as much as 40% of city energy budgets go towards lighting streets and that a streetlight is responsible for emitting an average of 200 kg of CO<sub>2</sub> every year. Energy savings, carbon reduction, lower operating costs and a general push by state and local governments for greener cities are all driving the decision to move to advanced control networking technology that enable cities to dynamically dim their lamps to save significant energy and reduce their carbon footprints.

[To read more...](#)

## **ENEL DISTRIBUZIONE and NEC agree to co-operate on next-generation Smart Grid and Smart Cities**

NEC Corporation, a leading network, communications and IT company, and Enel Distribuzione, the Distribution System Operator of Enel SpA, announced the signing of an agreement launching a strategic partnership on the development of new technologies and solutions in the domain of Smart Grids. Under the strategic partnership, Enel Distribuzione and NEC will undertake joint feasibility studies as well as deploying advanced, flexible and cost-effective solutions for smart grids, focusing in particular on energy storage. The partnership will leverage on NEC's expertise in intelligent systems for energy collection and storage. The two companies will launch a pilot project testing energy solution systems based on lithium ion batteries, developed by NEC and applied to the Enel distribution network.

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

## **GÖRLITZ - Vattenfall terminates implementation of EDW3000 for C&I customers.**

Harmonising interoperable software for energy data management was successfully finished. The Vattenfall metering sector applies the EDW3000 system in Berlin and Hamburg.

"Three years ago the EDW3000 was implemented in Hamburg. Early this year, the ENZ2000 was successfully converted by the EDW3000", says Andreas Rehfeldt, project leader at Vattenfall.

All system master data from the ENZ2000 software were migrated in the EDW3000. Since March all load profile data read and meter reading sequences of several thousand customer meters have arrived in the new EDW3000, version 4.5. In the EDW3000 data are stored, checked for completeness, and then transmitted to the post-processing systems. For remote reading the sector metering of Vattenfall applies the "EDW.collector" module.

[To read more...](#)

## **ENEL - Smart Grids - Technologies**

The traditional concept of electrical grids is no longer applicable; in addition to electrical lines, power transformers and switching devices, electronics, information and communication technology are to be integrated, being more and more of importance.

The increased penetration of distributed generation from renewable sources (solar, wind, thermal, etcetera) also at domestic level calls for an additional production network that shall positively be integrated with the traditional one. Evolution from a centralized control of the system to a distributed one, bidirectional energy flows and active networks are relevant consequences.

As a result the grid shall be made able to integrate, manage and control energy flows coming from both conventional power plants and from medium and small generation at local level.

The electrical grid will no longer be a unidirectional channel transmitting and distributing energy from the conventional plants to the final users, but will be a Smart Grid, a common infrastructure enabling the interaction among producers and users, early forecasting of demand and flexible balancing of production and consumption of electric energy.

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

### **EATON - Mobile Electric Vehicle; Recharge and Rescue Truck**

The new Plug-in Electric Vehicles (PEV) have arrived and their range should be more than sufficient for the average driver. However, the PEV driver may still have “range anxiety” about commuting further distances. In addition to addressing those concerns, the new PEV driver will also want to test out the limits of their new vehicle, which could leave them in an uncomfortable spot—out of battery power and no place to plug in.

Real Power (a division of Contour Hardening Inc. and supplier of Real Power—a fully integrated AC power generation system designed exclusively for your truck) and Eaton Corporation (a leading power management company and supplier of the Pow-R-StationE electric vehicle charging stations) collaborated to develop the first proof-of-concept Mobile EV Recharge and Rescue Truck.

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

### **Onzo Smart Energy Kit selected for energy management project in Amsterdam**

Onzo’s award-winning Smart Energy Kit has been chosen as the only energy display to be rolled out to households in Amsterdam, as part of a pioneering project to make people more aware of their energy use.

Under the Sustainable Neighbourhood project, 500 homes in the North West district of the Dutch capital have been equipped with Echelon’s smart meters. Of these, 50 have also been given Onzo’s Smart Energy Kit as part of a six month trial to find out how much energy home owners can save when given easy-to-understand information about their electricity consumption.

[To read more...](#)

### **Alliander - Amsterdam Smart City: Smart stories event 2011**

On Wednesday April the 20<sup>th</sup>, 200 interested guests attended the Amsterdam Smart City Event; Smart Stories. Highlight of the event was the announcement of Ptermolengraff, CEO Liander, that Amsterdam Smart City will continue. He also presented the results of two years Amsterdam Smart City to Eberhard van der Laan, Mayor of Amsterdam.

[To read more about the presentations...](#)

[To see the video about the projects...](#)



## IEA report: Smart Grids technology Roadmap

Widespread deployment of smart grids is critical for a secure, cost-effective and clean energy future, - "Smart Grids Technology Roadmap" shows how use of smart grid technologies can be expanded, identifies goals that must be met

"Smart Grids Technology Roadmap" shows how use of smart grid technologies can be expanded, identifies goals that must be met

A new report from the International Energy Agency (IEA) says the widespread deployment of "smart grids" – networks that monitor and manage the transport of electricity from all generation sources to meet the varying electricity demands of end users – is crucial to achieving a more secure and sustainable energy future.

With current trends in the supply and use of energy becoming increasingly untenable – economically, environmentally and socially – the IEA believes smart grids can play a significant role in enabling nearly all clean energy technologies, including renewables, electric vehicles and energy efficiency. The report, Smart Grids Technology Roadmap, provides a consensus view from more than 200 government, industry, academia and consumer representatives on the current status of smart grid technologies, and charts a course for expanding their use from today to 2050.

This report is the latest in the IEA's series of technology roadmaps to guide governments and industry on the actions and milestones needed to achieve the potential for the full set of clean energy technologies.

[To read the whole article...](#)  
[To download the IEA report...](#)

## NIST: Smart Grid Panel Agrees on Standards for Wireless Communication, Meter Upgrades

The governing board of the Smart Grid Interoperability Panel (SGIP) has voted in favor of a new standard and a set of guidelines important for making the long-planned "smart" electricity grid a reality. The two documents address the need for wireless communications among grid-connected devices as well as the ability to upgrade household electricity meters as the Smart Grid evolves. The documents were identified by the SGIP along with other standards development projects called "Priority Action Plans," or PAPs, that describe critical needs for realizing an energy-efficient, modern power grid with seamlessly interoperable parts. The SGIP, a group of public and private organizations, was created by the National Institute of Standards and Technology (NIST) to coordinate development of consensus-based Smart Grid standards.

[To read more...](#)

## CEER publication: Fact sheet on regulatory practices for the promotion of energy efficiency

Regulators contribute towards a low carbon economy through the exchange of information and best practice on energy efficiency through their regional associations and at international level through the International confederation of Energy Regulators (ICER). ICER is ad global confederation representing more than 200 energy regulators worldwide.

[To download the fact sheet...](#)