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Newsletter // July 2011

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Meet ESNA and its members at the following events

- [06-09 Sept. 2011; Oppland – 2nd Annual Asia SMARTricity congress 2011 in Tianjin, CN](#)
- [13-14 Sept.2011; Fleming Europe – The 2nd Annual Smart Grids / Smart Cities in Lisbon, PT](#)
- [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](#)
- [15-16 Sept. 2011; 2nd Annual Smart Grid technology Conference 2011 in Amsterdam, NL](#)
- [20-22 Sept. 2011; The 4th AMRChina 2011 international Symposium & Innovation Exhibition in Beijing, 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](#)



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- [26-27 Sept. 2011; Fleming Gulf – Smart Grids & Smart meters Summit 2011 in Abu Dhabi, UAE](#)
- [27-28 Sept. 2011; The Cyber Security for Energy delivery Conference in San Jose USA](#)
- [04-06 Oct. 2011; Metering Europe 2011 / Smart homes 2011 in Amsterdam, NL](#)
- [10-11 Oct 2011; SMI – Distribution Automation Europe in London, UK](#)
- [18-19 Oct. 2011; InnoQube - Global Renewable Energy development in Brussels, BE](#)
- [18-20 Oct. 2011; SZ&W – World Smart Grid – Middle East Conference 2011 in Dubai, UAE](#)
- [25 Oct. 2011; IIR-HR – Smart Metering Conference in Budapest, HR](#)
- [07-10 Nov. 2011; Smart Power Europe – Europe’s leading Power Forum in Copenhagen, DK](#)
- [08-09 Nov. 2011; Energy & Utility Cyber Security Summit in Amsterdam, NL](#)
- [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](#)
- [14-15 Nov. 2011; SMI – Smart Grid Cyber Security and Privacy in Amsterdam, NL](#)
- [21-24 Nov. 2011; Terrapin – Smart electricity World MENA in Dubai, UAE](#)
- [27-29 Nov. 2012; BIT – Annual Congress of U-Home in Hefei, Anhui Prov., China](#)
- [24-25 Jan. 2012; WTG – Smart grids Summits 2012 in Stockholm, SE](#)
- [26-27 Jan. 2012; Oliver Kinross – Smart Metering UK & Europe Summit 2012 in London, UK](#)
- [26-30 March 2012; Terrapinn – Power & Electricity World Africa 2012 in Johannesburg, SA](#)
- [16-19 April 2012; Terrapinn – Smart Electricity World Asia 2012 in Singapore](#)



ESNA News

ESNA Standards Activities

ESNA is very active during the past year in the various Smart Metering and Smart Grid standardisation activities across Europe as well as the rest of the world. The role of ESNA has significantly increased with the responsibility for the protocols OSGP (Open Smart Grid Protocol) and NTA8150 (Webservices API Interface). The draft standard OSGP has been submitted to Cenelec TC13 by Finland.

ESNA members are participants in standards organisations including CENELEC, ETSI, IEC, ISO, BSI and IEEE as well as standardisation efforts like Mandate 441, Mandate 490, the Smart Grid Task Force, and the NIST Smart Grid Interoperability Panel (SGIP).

ESNA's participation is helping to ensure that Open Smart Grid Protocol (OSGP) will be identified as one of the available Smart Metering and Smart Grid interoperability standards. ESNA members have served in various key roles and on various working groups within the M441 Smart Metering and M490 Smart Grid standardisation processes. In addition, Mark Ossel is member of the M490 Smart Grid Steering Committee that provides oversight for the various sub-activities including process team, standards team, architecture team and security team.

As previously communicated, ESNA is in the process of having OSGP approved as an official public standard rather than just a defacto standard. This process involves work efforts with both ETSI and CENELEC (CLC). With ESNA members working on the ETSI PLT and ETSI M2M technical committees, OSGP is being proposed both as an extension to EN 14908 and as an independent application layer.



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In addition, at the CLC TC13 WG02 ESNA has proposed a New Work Item based on the OSGP standard to CLC TC13. Finland has proposed OSGP as New Work Item to Cenelec. It is important that as many National Committees support this item. If approved by the CLC TC13 committee, this would become an official New Work Item for the CLC TC13 WG02. A few ESNA members have a seat in CLC TC13 WG02 representing different countries and one ESNA member is responsible for the technical liaison between CLC TC13 WG02 and ETSI M2M.

We request all ESNA members, especially the utilities, to check with their National Committee, TC13, to ensure the New Work Item is supported!.

In addition to ESNA's activity in the various standard committees and task forces, ESNA proactively responds to numerous public consultations from governmental organisations such as Council of European Energy Regulators (CEER), US Department of Energy (DOE), Australia's Department of Treasury and Finance, and many other organisations.

ESNA will continue to actively participate not only in these types of consultations but also other industry standards related efforts to ensure that a competitive environment continues to exist for all ESNA members.

We are starting up various working groups within ESNA to be able to take a position and have representatives participating in European and other international consultations.

ESNA Workgroups to start up are:

- 1) Security & Privacy
- 2) Smart Grid
- 3) Standards (OSGP, NTA8150)
- 4) Communication & Marketing

We request members to join a work group; make yourself known to the ESNA secretary.

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Member News

Fortum invests in More Efficient and Secure Power Grid in Norway

Fortum is investing in a Smart Metering / smart Grid system based on two-way communication in Norway. The installation of the new meters will begin in 2013 and altogether 100,000 households as well as small business customers in Fortum's network area will be connected to the Smart Grid by 2015. Fortum has chosen Telvent to deliver, install and operate the system. The service agreement includes 100.000 of Echelon's metering equipment, Telvent's system as well as maintenance and collection of meter readings. Fortum and Telvent's contract also includes several options for future development and upgrading. ?Telvent has since 2009 been Fortum's partner in the currently ongoing Finnish smart metering rollout.

Fortum, with 1.6 million customers, is a leading energy company in the Nordic countries, Russia and the Baltic region. Fortum Norway, the 7th largest utility in Norway and holds a minority interest in Hafslund, the largest utility in the nation.



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"With the new smart meters, invoicing will be based on real electricity consumption," Fortum's vice president for distribution, Ari Koponen said. "Customers receive more accurate information on their electricity consumption and therefore have better possibilities for saving energy. In addition, the smart meters will be used for more efficient power failure resolution and as a platform for future development of Smart Grids and services within electricity solutions."

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Echelon Appoints Enel SpA's Livio Gallo to its Board of Directors

Leading international utility executive will add deep smart grid industry expertise to Echelon's Board. Echelon announced the appointment of Livio Gallo, Managing Director of the Networks and Infrastructures Division of Enel SpA and CEO of Enel Distribuzione SpA, the largest Italian utility, to the Echelon board of directors effective immediately. As the top operational executive at Enel, among his other responsibilities, Mr. Gallo oversees its 32 million smart meter system in Italy and its drive to bring the smart grid to key geographies worldwide.

"The relationship between Enel and Echelon goes back more than a decade. Echelon contributed with their leading communication technology to deploy ENEL Telegestore project that is still the largest Smart Metering system in operation worldwide. Now, we share a vision of extending intelligence to the edge of the grid," said Livio Gallo, Managing Director of the Networks and Infrastructures Division of Enel SpA and CEO of Enel Distribuzione SpA. "I look forward to joining the board of Echelon and supporting management to make this a reality."

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The GÖRLITZ Group has a new shareholder

IDS GmbH, Ettlingen, has acquired the majority share of the GÖRLITZ Group located in Koblenz, effective immediately. The GÖRLITZ AG completes the expansive portfolio with hardware and software products as well as solutions for the market of energy supply. Both companies will continue their successful business activities on the market without changing structure and management.

The ambitious aim of both politicians and society to raise the proportion of renewable energy to 50% and establish a decentralised generation of energy, demands completely new concepts for energy generation, transportation, usage and billing. It is essential to develop intelligent systems and solutions thus realising smart grids and smart metering in the near future. IDS and GÖRLITZ are well known companies on the market of grid operators and utilities in Europe.

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Oracle - More than 100 Customers Select or Implement Oracle Utilities Technologies in Fiscal Year 2011

Rappahannock Electric Cooperative Selects Oracle Utilities Meter Data Management to Support Smart Grid and Green Initiatives

Rappahannock Electric Cooperative (REC), a member-owned utility servicing more than 155,000 connections in 22 Virginia counties, has selected Oracle Utilities Meter Data Management and plans to upgrade its Oracle Utilities Customer Care and Billing application to support its smart grid and green initiatives. REC will work with Red Clay, a Gold level member of Oracle Partner Network (OPN) and Platinum OPN member Lockheed Martin on the implementation and upgrade.



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With Oracle, REC plans to connect advanced metering infrastructure (AMI) usage data and presentment tools, helping to empower customers to effectively monitor their energy use and reduce consumption. REC will also leverage Oracle Utilities Meter Data Management to verify, store, process and format data it collects from approximately 150,000 smart electric meters, providing every department, application and business process with the metering information it needs.

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EVb Energy Solutions - electrical Smart Meter roll out in the municipality Nümbrecht.

The Nümbrecht (GWN) community is convinced Smart Metering works. They are so convinced that the municipal utility, coming from the Bergische Land in Germany, now will start a rollout of smart E-meters in the entire service area. Since 2008, the GWN is successfully stress testing EVb's smart metering solutions in two pilot projects - basis for the present decision. The GWN is now implementing smart metering in three phases, by 2014 all households will be equipped with digital E-meters.

In April 2008 the smart meter rollout started with the first starter-box set of EVb: "We were curious about this new technology. The starter-box contained 4 Echelon NES-meters and a data concentrator. We discussed intensively to understand how this smart meter technology would work, "remembered Marion Wallerus, managing director of GWN. In the summer of 2008 and 2009 we started two pilot projects using the EVb-Meterus communications solution. "Not only the smart meters, but the entire smart metering infrastructure has been tested to the limit," she said. It was a success: Both pilots operated without problems, in November 2010, EVb handed over to the municipal utilities the operation of the Meterus servers. Now the North Rhine-Westphalia power company has decided to launch a large-scale smart metering rollout. From early 2012 onwards Around 6,000 EVb NES electricity meters will be installed in Nümbrecht covering the whole distribution grid. In 2014 all households will be equipped with smart meter technology. PowerLine technology (PLC) is used for the transmission of the consumption data and control commands.

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[To read the article in German...](#)

Ferranti - MECOMS™ Go-Live at Scanenergi

Scanenergi is the first energy company in Denmark to have an integrated system for customer management.

The new platform covers processes for ERP, AMR, CRM and Billing. Scanenergi is involved in electricity trading, energy management and energy consultancy. The company was founded 13 years ago, is based in Ikast and has staff and offices spread throughout Denmark. Scanenergi has approximately 90 employees and enjoys continued growth as Denmark's third largest electricity trading company.

Scanenergi utilizes MECOMS™ to support the entire business. In addition to the traditional ERP functionality of Microsoft Dynamics AX, the solution covers

- Billing and settlement of over 150,000 customers

- Automatic meter reading of initially up to 50,000 meters

- CRM with handling of advanced electricity contracts and products

- Customer Service functionality including a self-service portal & Performance Management

- Portfolio Management and Forecast

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Telvent - PECO Selects Telvent's Smart Grid Solutions to Optimize Electrical Grid

Telvent's industry-leading technology will help improve current network reliability and set the stage for future smart grid initiatives

Telvent announced that PECO has selected Telvent smart grid solutions to upgrade its electrical network, reduce power losses and operational costs, and improve power quality and reliability.

PECO, a Pennsylvania-based electric and gas distribution company that provides energy to the greater Philadelphia area, will implement Telvent's advanced distribution management system (ADMS) to monitor and control its electric network using one integrated system. With this system, the utility will have access to real-time information to control load management, fault analysis and network optimization. In addition, PECO will leverage Telvent's OASyS Dynamic Network of Applications (DNA) supervisory control and data acquisition (SCADA) system to immediately pinpoint potential trouble spots within the network, increasing customer satisfaction by addressing issues, such as service outages, more quickly and efficiently.

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VattenFall - Island of Gotland gets future proof grid

Starting this year, the power grid serving the Swedish island of Gotland will be transformed into a smart grid. A preparatory study for the project was concluded at the end of May, laying the foundation for a grid that will hopefully become a role model for Europe.

The Smart Grid Gotland project is a part of Vattenfall's research and development efforts within the smart-grid area. The project aims to develop strategies for the planning, construction and operation of a large-scale smart grid with a large share of intermittent power production. Already today, 30 percent of Gotland's electricity needs come from locally produced wind power, and another 1,000 MW is planned.

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E.ON - Study shows customers can save up to 25 percent with variable electricity rates

Electricity consumers change their behaviour if prices are dynamic and their electricity costs and consumption are transparent. This is the finding of a study conducted by E.ON Metering GmbH as well as BSH Bosch and Siemens Hausgeräte GmbH. About 85 percent of the 115 participants in the study carefully examined their electricity costs and, on average, postponed one in two uses of their dishwashers and washing machines to a time of the day with a more favourable tariff. As a result, their electricity costs were up to 25 percent lower. On their dishwashers and washing machines, they simply pre-selected a later starting time. In an average German home, household appliances account for 40 percent of the electricity consumed. A set of traffic lights on the display of a mobile telephone told the customers whether the electricity rate was in the low, medium or top range at a particular time. In future, dynamic electricity rates could be determined, for example, by the level of wind energy generation or prevailing market trading prices

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Alliander - Amsterdam Smart City to be continued

KPN, Liander, Amsterdam Municipality and AIM (Amsterdam Innovation Motor) will collaborate on the Amsterdam Smart City project. The purpose of the extension of the Amsterdam Smart City project is to turn Amsterdam into the smartest and most sustainable city in Europe.



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News of the partnership was broken in Amsterdam on the 6th of July by Mayor Eberhard van der Laan, Alderman Maarten van Poelgeest (Spatial Planning, Climate and Energy), Eelco Blok, CEO KPN, Peter Molengraaf, Director of grid operator Liander, and Joke van Antwerpen, Director AIM. The core objective of the new partnership is to give (SME) companies the opportunity to test innovative applications in the practice. The last two years Amsterdam Smart City together with and Liander, AIM and the City of Amsterdam have already been making this possible for various stakeholders with a strong focus on energy transition. The fact that KPN has now joined the partnership means that the focus will shift towards the use of broadband Internet connections.

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ACER - Framework Guidelines: “On Electricity Grid Connections”

These Framework Guidelines aim at setting out clear and objective principles for the development of network codes pursuant to Article 6(2) of Regulation (EC) No 714/2009 (the “Electricity Regulation”). The network code(s) developed according to these Framework Guidelines will be applied by electricity system operators and significant grid users, taking into account possible public service obligations and without prejudice to the regulatory regime for cross-border issues pursuant to Article 38 of Directive 2009/72/EC and of the responsibilities and powers of regulatory authorities established according to Article 37(6) of Directive 2009/72/EC.

The network code(s) developed according to these Framework Guidelines will be evaluated by ACER, taking into account their degree of compliance with these Guidelines and the fulfilment of the following objectives: maintaining security of supply, supporting the completion and functioning of the internal market in electricity and cross-border trade, including delivering benefits to the customers and facilitating the EU’s targets for penetration of renewable generation.

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[To download the Framework Guidelines...](#)

Berg Insight - Smart Metering in Europe, the eighth consecutive report

Half of Europe’s households will get smart meters by 2016.

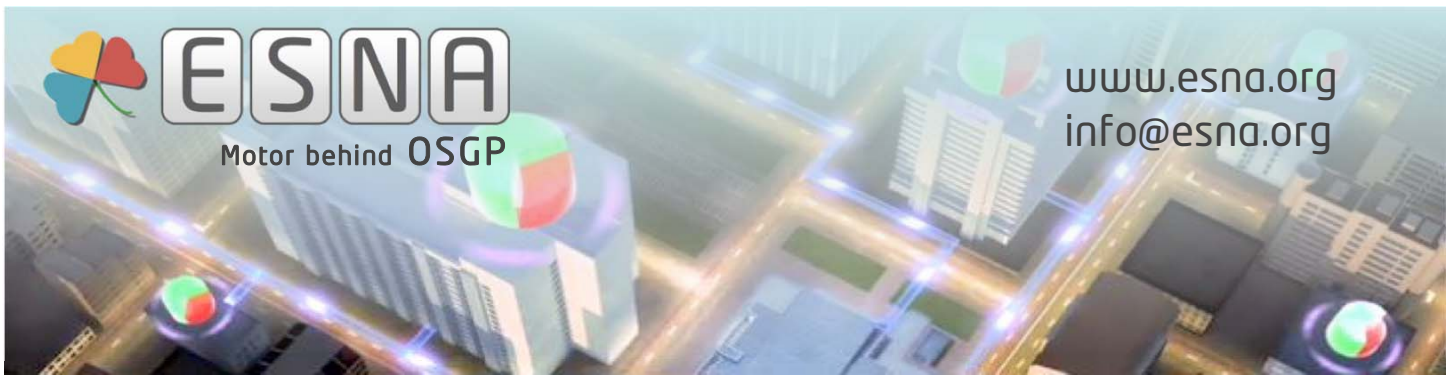
Smart grid is one of the latest buzzwords in the energy sector and has become a catch-phrase for politicians, academics and industry leaders alike. The vision is to exploit the latest technology to address the immense challenge of securing the energy supply in the 21st century. The concept of smart grids is at times put forward as a revolutionary solution to a wide array of problems, ranging from the West’s dependency on Middle Eastern oil to global warming. A more realistic expectation is however that smart grid technology will contribute to improved efficiency and reliability in energy distribution and better optimisation in allocation of resources and utilisation of assets.

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German Bundesnetzagentur takes first step towards further network expansion

The Bundesnetzagentur today launched a public consultation on a scenario framework for the future power supply structure in Germany. The expansion requirements will be determined on the basis of



this structure. The scenario framework has been submitted by the four German transmission system operators (TSOs) and put up for consultation by the Bundesnetzagentur.

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

DECC - Electricity Market Reform: Keeping the lights on in the cheapest, cleanest way

- White Paper to bring about biggest reforms since privatisation
- Renewables Roadmap plots out actions to meet 2020 target

On July the 12th coalition measures to keep the UK's lights on and consumer bills down, and shift the economy away from a high risk, high-carbon future, have been unveiled.

With a quarter of the UK's generating capacity shutting down over the next ten years as old coal and nuclear power stations close, more than £110bn in investment is needed to build the equivalent of 20 large power stations and upgrade the grid. In the longer term, by 2050, electricity demand is set to double, as we shift more transport and heating onto the electricity grid. Business as usual is not therefore an option.

The Electricity Market Reform White Paper published today sets out key measures to attract investment, reduce the impact on consumer bills, and create a secure mix of electricity sources including gas, new nuclear, renewables and carbon capture and storage. The Renewables Roadmap published alongside this outlines a plan of action to accelerate renewable energy deployment – to meet the target of 15% of all energy by 2020 – while driving down costs.

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[To read more and to download the White Paper...](#)

PikeResearch - Smart Grid in Asia Pacific

Smart Meters and Grid Automation Technologies: Business Drivers, Policy Trends, Standardization, Key Industry Players, Market Analysis, and Forecasts

Energy markets in the Asia Pacific region are experiencing a period of significant growth and development, driven both by expanding electricity demand as well as new opportunities for cleaner and more efficient power generation, transmission, and distribution.

Smart grid drivers differ significantly by country, however. Chinese market players believe that the construction of a smart grid is a key part of economic growth and enhancing the ability to optimize energy allocation, including the integration of new generation capacity from both renewable and fossil fuel sources. Japan's electric utilities have been investing huge amounts of capital in power infrastructure, resulting in advanced capabilities in transmission infrastructure and power delivery services; however, the tragic March 2011 earthquake, tsunami, and resulting Fukushima nuclear accident are likely to redefine not only Japan's smart grid planning, but perhaps the direction of the nation's utility industry. Korea seeks to leverage its technology leadership in the IT and communications space to form an advanced smart grid infrastructure within the country, as well as an opportunity to export smart grid technologies around the world. Significant and influential smart grid projects are also underway in Australia, India, and the Association of Southeast Asian Nations (ASEAN) region.

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