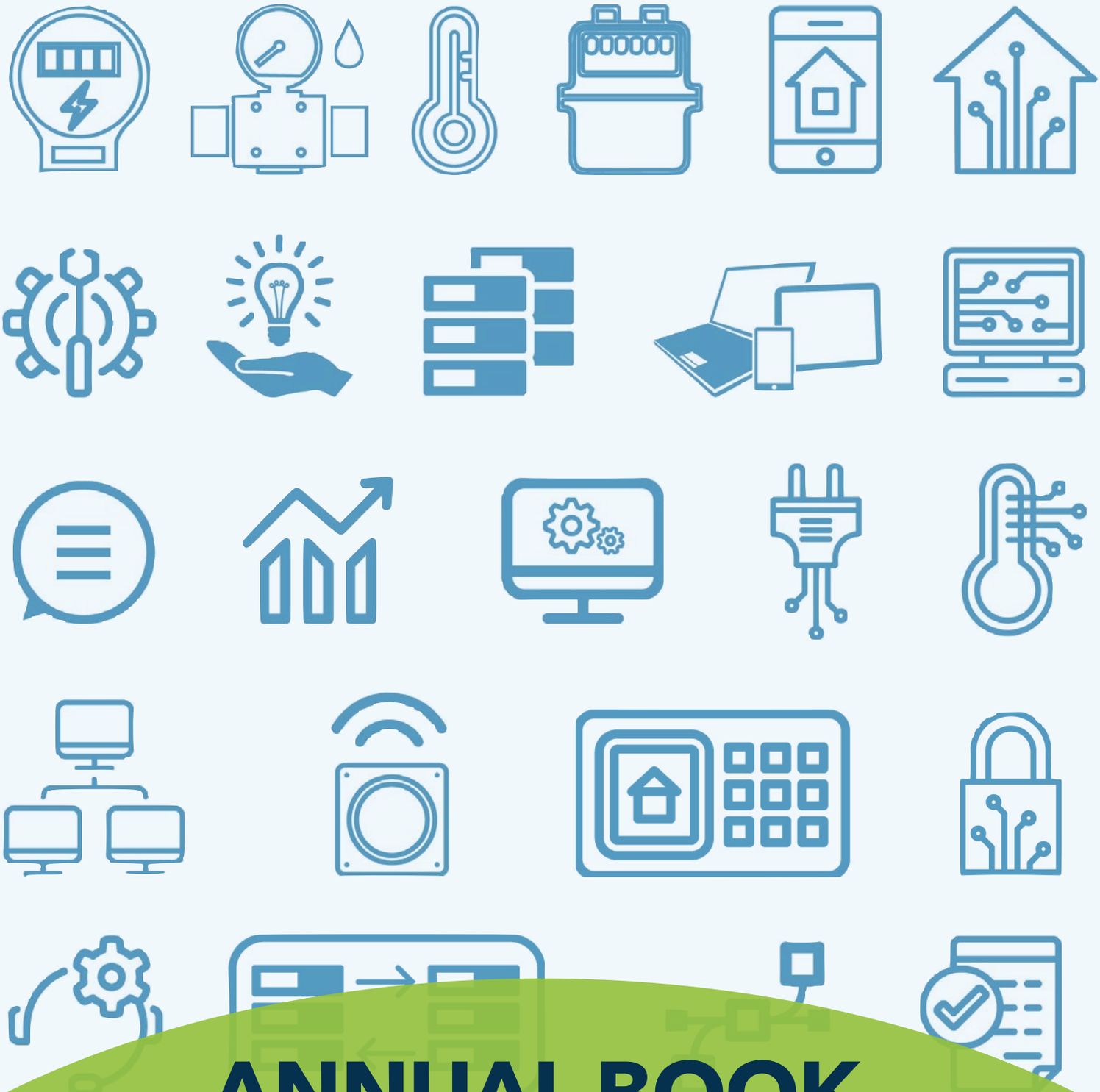

ANNUAL BOOK

2016-2017

ESMIG

WE MAKE ENERGY SMART

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ABOUT ESMIG

ESMIG is the European association representing companies that provide smart energy solutions: smart meter manufacturers, smart grid networking and solution providers, software and data analytics, system integrators, consumer energy services, in-home energy displays, digital security, communication service providers. They make energy cleaner, more affordable and more reliable because they enable:

- a better outage detection
- customised tariffs
- accurate bills
- a precise overview of consumption
- manageable demand

1.

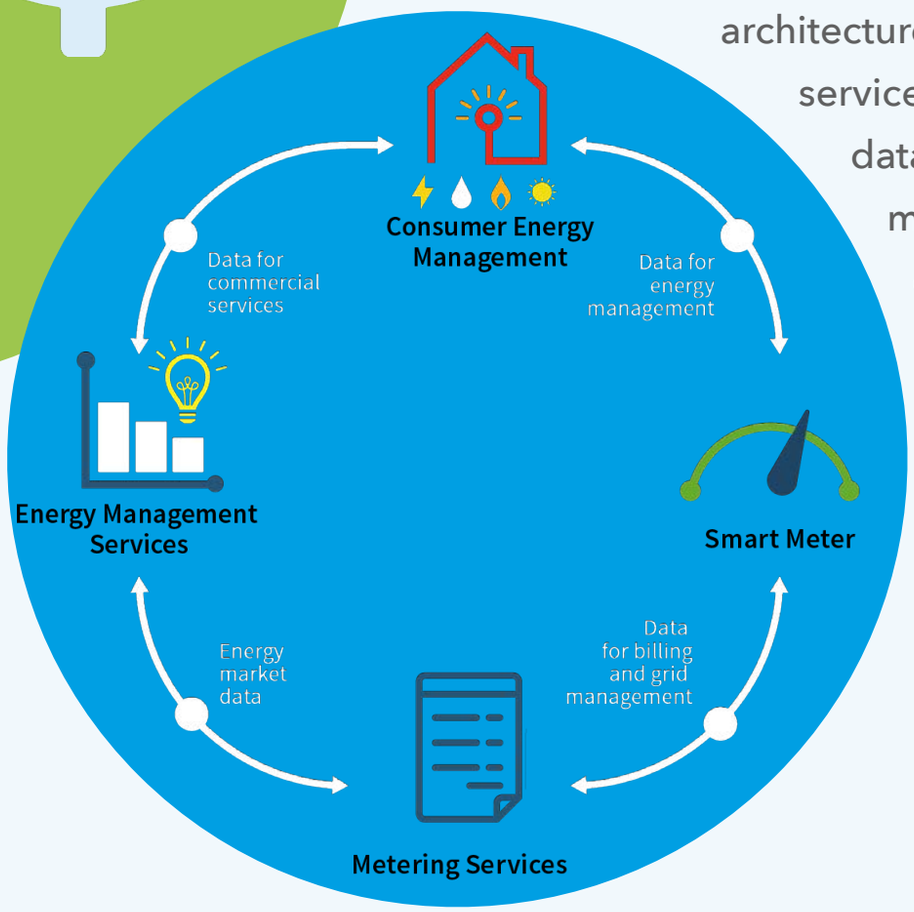
> Over years, ESMIG has become the European Association of the most advanced smart energy technology providers and the trusted advisor to policy makers in customer centric digital energy solutions. Along the disruptive energy transition, ESMIG acts as the voice of industry providing the best value added services to the European consumers.
>
> Maher Chebbo,
> ESMIG President

Our scope

We advocate for a regulatory framework that accelerates the introduction of our members' innovative products and services, which are fundamental to the smart energy and water systems of Europe's future.

We actively contribute to the creation of a competitive internal energy market by developing architectures and open standards that allow efficient implementation and integration of new energy management technologies and services.

ESMIG's scope covers the four cornerstones of the flexible demand management architecture: the smart meter, services based on meter data, consumer energy management and energy management services.



Our work

Regulatory Focus

We are intensively active in the European political scene to influence new legislation and advocate existing legislation and recommendations. ESMIG is also reaching out to national stakeholders in countries that did not yet decide for a smart meter roll-out or are working on a second generation roll-out.

Smart Metering Focus

The smart meter is vital in the development of new market roles and energy related services. Big data and data services are foreseen to be provided by DSO or neutral 3rd parties. The introduction of these roles and services is expected as a next step after the roll-out of smart meters.

We are working on identifying gaps in functionalities and standards that are necessary to realise consumer benefits and energy related services by commercial companies. In our work we include issues related to data, such as free flow of data, data access standards.

Consumer Energy Management Focus

Our activities are supporting in parallel both the traditional energy market participants in the performance of their (mostly regulated) business and the new market players in the transition to new energy market and service oriented models. We are "transforming while performing". We are advocating for the opportunities offered by smart meters and additional technology connected to the metering infrastructure.

Our internal organisation

General Assembly
(all members)

The General Assembly (GA) of members meets two times per year to decide on the scope, strategy, organisation and finances of the association.

ESMIG Secretariat

Executive Committee

The Executive Committee (EC) consisting of the President, Vice-President and Working Groups Chairs, meets on monthly basis and deals with operational issues.

Working Groups

Consumer Energy Management
Chair: Patrick Caiger-Smith, geo
Secretary: Willem Strabbing

European Business Systems Integration and Interoperability
Chair: Miguel Gaspar, SAP
Secretary: Willem Strabbing

Regulation and Policy Group
Chair: John Harris, Landis+Gyr
Secretary: Claire Grossmann

Security and Privacy Group
Chair: Thomas Weisshaupt, Gemalto
Secretary: Willem Strabbing

Communications Technologies
Chair: Nicolas Damour, Sierra Wireless
Secretary: Willem Strabbing

Multi Utility Metering
Chair: Nigel Hughes, Itron
Secretary: Willem Strabbing

Marketing and Events Group
Chair: Mike Woodhall, Chameleon
Secretary: Georgiana Huiban

Executive Committee

Maher Chebbo

ESMIG President

Senior Executive & Chief Commercial Officer, GE Power Digital Solutions

John Harris

ESMIG Vice-President & RPG Chair

VP Head of Governmental Affairs and Public Relations, Landis+Gyr

Patrick Caiger-Smith

ESMIG Chair of the CEM Group

CEO, geo

Thomas Weisshaupt

ESMIG Chair of the SPG Group

Global Account Manager Smart Energy, Gemalto

Nigel Hughes

ESMIG Chair of the MUM Group

VP Sales Marketing & Deliveries, EMEA Managing Director, Itron UK

Mike Woodhall

ESMIG Chair of the MEG Group

Managing Director, Chameleon

ESMIG ACTIVITIES 2016-2017

2.

We are currently focusing our activities on the political developments at European level (the Clean Energy Package), but also on national level. Several member states still need to decide on the deployment of smart meters and those that have started this deployment are discussing the extensions "beyond the meter". While smart meters are now installed with interfaces providing (near) real-time information, we have to ensure that the appropriate solutions and services are available for consumers to reap all the benefits smart meters can offer.

Willem Strabbing,
ESMIG Managing Director

General updates

New ESMIG members

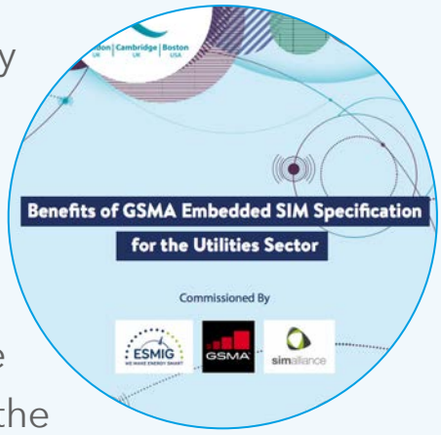
Aclara FIRSTFUEL ublox

Read more about them in section "3. ESMIG Members".

My Smart Energy: New animation

We launched a new animation to explain why we need smart meters and how they will improve the everyday life of consumers. This is available on the main page of www.my-smart-energy.eu, the website created with EDSO for Smart Grids in order to better explain the smart meters and smart grids to European consumers.

New report: Benefits of GSMA Embedded SIM Specification for the Utilities sector



The GSMA Embedded SIM Specification is widely recognised to be a crucial component of the future of M2M and has already been embraced by the automotive sector. This report commissioned by GSMA, ESMIG and SIMAlliance explores the advantages the GSMA specification could bring to the utilities sector. Its potential benefits are explored in the context of 5 use cases and include: improving reliability and reducing site visits, improving security and trust, reducing cost and complexity.

Clean Energy for All Europeans Package

Source: European Commission

The European Commission presented the "Clean Energy for All Europeans" package on 30 November 2016. This contains the key remaining pieces to fully implement the EU's 2030 climate and energy framework, notably on renewables and energy efficiency. The proposals cover energy efficiency, renewable energy, the design of the electricity market, security of electricity supply and governance rules for the Energy Union. Four legislative proposals are of utmost importance for ESMIG:

- Electricity Directive and Regulation: The proposal for a Directive on common rules for the internal market in electricity focuses on the role of customers in the electricity market, whereas the Electricity Regulation concerns the wholesale market and grid operation. The proposals aim to establish a more competitive, customer-centred, flexible and non-discriminatory EU electricity market with market-based supply prices.
- Energy Efficiency Directive: The European Commission published the proposal to review the Energy Efficiency Directive (EED) with the aim to fine-tune the measures necessary for achieving the new EU 2030 30% binding energy efficiency target. Articles 9-11 on metering and billing provisions are of particular interest for ESMIG.
- Energy Performance of Buildings Directive: This proposal aims to encourage the use of ICT and smart technologies to ensure buildings operate efficiently over time. It also strengthens the links between achieving higher renovation rates, funding and energy performance certificates.

The reports from the European Council and the European Parliament on the different proposals will be adopted in November/December 2017.

Events

Workshop on smart homes and buildings, 26 April, Brussels

The aim of this Workshop, co-organised by ESMIG and ORGALIME was to share experiences and discuss the challenges and opportunities of smart homes and buildings for consumers, national regulatory authorities, local authorities, distributed power generators, suppliers, grid operators, technology suppliers and manufacturers, energy services industries and aggregators. The main conclusions are:

- information provision to consumers is key
- it is proven that consumers are happy with new energy-related applications
- smart meter functionalities are evolving so their definitions need to be updated
- liberalisation needs to be further implemented

European Sustainable Energy Week, 13-17 June, Brussels

The most important European conference dedicated to sustainable energy policy issues looked at the way we produce and consume energy. ESMIG was present at:

- the Speakers' Corner, where Willem Strabbing, ESMIG Managing Director, spoke about "Can societal benefits of smart meters be realised?"

- the policy session "Designing flexible energy markets to empower consumers", where John Harris, ESMIG Vice-President, focused on consumer empowerment, smart homes and data management
- the policy session: "SAREF Standard for buildings for the new electricity market", where Willem Strabbing and Patrick Caiger-Smith (ESMIG Executive Committee member) presented the way consumers and smart equipment in their homes receive information from smart meters about energy consumption and/or generation through standardised communications, and the importance of user friendly interfaces

ESMIG Regulatory Workshop, 20 October, Brussels

A strategic workshop on the energy legislative package gathered 12 ESMIG member representatives in Brussels. Claire Grossmann, ESMIG EU Affairs Manager and John Harris, ESMIG Vice-President and Chair of the Regulatory and Policy Group, explained more about the upcoming legislation, how it affects our members and where we can intervene as an association in order to express our views and opinions.

We invited two guest speakers to tell us more about the current status and what we should expect from the new legislative proposals:

- Mark van Stiphout, Deputy Head of Unit at DG Energy in the European Commission
- Kaja Kallas, Member of the European Parliament

Following the workshop, several ESMIG members were interested in closely following the developments and giving their input where necessary in drafting position papers and responses to the legislations and reports part of the new energy legislative package.

European Utility Week, 15-17 November, Barcelona

The European Utility Week is the most important event for Europe's smart energy industry. ESMIG has been a strategic partner for many years and the only association to host an extended Area and Pavilion for its members.

In 2016, we had 24 of our members on the exhibition floor, we hosted a strategic summit session on "Services as the new business model" and at the ESMIG Pavilion, together with 7 of our members and 2 partners, we showed the practical applications of an open architecture for demand side flexibility (DSF). The objective is to have DSF solutions purely based on European (or international) communication standards and to demonstrate the combination of Telecom based standards from ETSI/ oneM2M and utility standards from CEN/CENELEC.

General Assemblies

- Strategic General Assembly, 3 June, Paris: the main discussion revolved around ESMIG's strategy in the face of the energy market shifts and the impact of digitisation on our industry. This was the basis for the elaboration of a Strategy Paper for 2017-2018. Also, the Executive Committee was re-elected for a new term of 2 years.
- Operational General Assembly, 14 November, Barcelona: the proposed ESMIG Strategy Paper 2017-2018 was discussed and approved and the members defined concrete actions and targets in 3 areas: political, smart metering and extended scope. Howard Porter, BEAMA, explained how "Brexit" is developing and how it may affect our industries. Several members shared their experiences and learnings and it was unanimously agreed that ESMIG will help all its members stay strong in their business and will explore all initiatives to do this.

Working Groups Activities

Consumer Energy Management (CEM) and European Business Systems Integration and Interoperability (EBSII) Groups

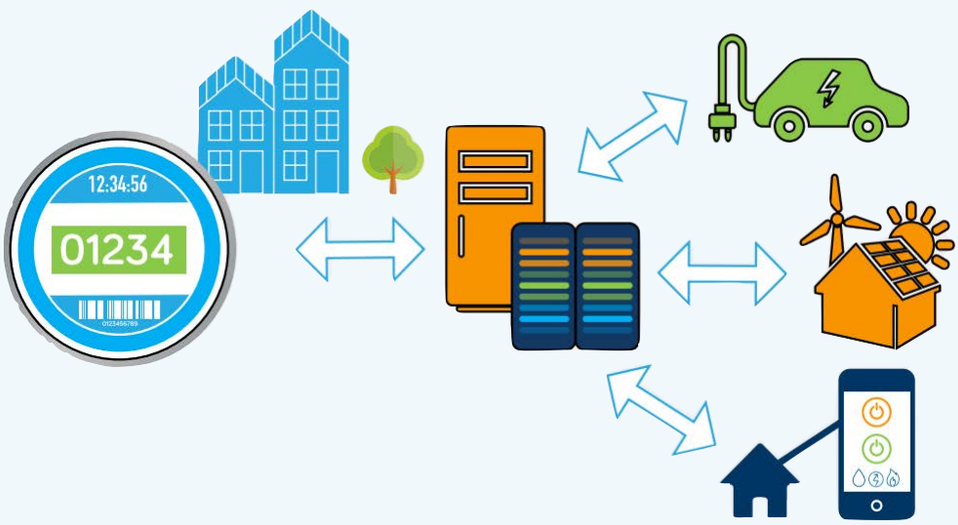
EBSII focuses on the enterprise system landscape and the interoperability of its components. The scope of this landscape ranges from the central Head End System to other utility business systems, such as Meter Data Management, Customer Information, Billing, Asset Management and Supervisory Control and Data Acquisition (SCADA).

CEM is dedicated to providing and facilitating information, research and constructive dialogue to improve the involvement of the consumer in smart energy systems and as such, optimise energy saving potential.

The groups now meet together, as all issues discussed are in the common interest of both.

Companies involved:

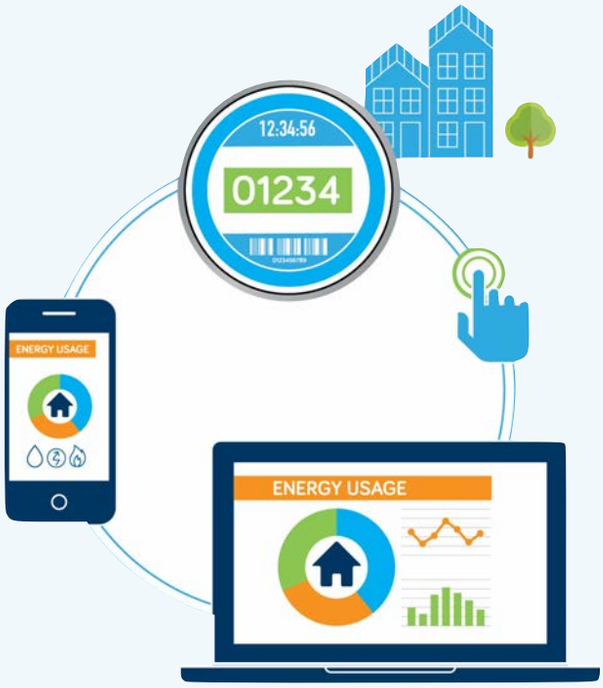
Apator, Chameleon, Elster, Ericsson, geo, HelloData, Iskraemeco, Itron, Kamstrup, Kisters, Landis+Gyr, Luna, NES, Sagemcom, SAP, Sierra Wireless, Vodafone, Watt-IS



Main activities in 2016-2017:

The combined CEM and EBSII group met several times to discuss and work together on:

- the demand side flexibility demonstration presented at European Utility Week 2016 in Barcelona and for 2017 in Amsterdam
- supporting the smart meter roll-out in The Netherlands, by providing information about energy savings that can be realised with real-time data feedback
- commissioning a study on the cost benefit analysis for residential demand response, together with EEBus and Energy@home
- monitoring the consumer acceptance of smart meters in countries with roll-outs and analysing to support for feedback devices
- finalising a H2020 proposal called "IFLEX" (Interoperable Flexibility). The objective of this project is to implement demand side flexibility through central services (eg virtual power plant, data analytics, etc.) and local services (smart meters, consumer energy management system, smart appliances, etc.) in a multi-vendor environment using formal communication standards



Regulation and Policy Group (RPG)

The group maintains a watching brief on EU regulatory and legislative developments that affect all aspects of smart energy management in Europe. The policy areas under consideration include, but are not limited to energy, environment, consumer affairs and the internal market. Furthermore, the RPG coordinates responses to political developments affecting the membership of ESMIG, and strives to ensure effective and coherent policy development within ESMIG.

At the end of 2016, the European Commission proposed an extensive package of legislation, the so-called "Clean Energy Package", intended to shape the transition to a low-carbon economy for the next 15 years. As the 4 directives and 4 regulations make their way through the legislative process, the Regulation and Policy Group will make sure that ESMIG members' voices are heard in the discussion. After all, this legislation will determine the regulatory framework under which ESMIG member companies and our customers will soon have to operate.

John Harris,
RPG Chair

Companies involved:

Apator, Elster, Ericsson, geo, HelloData, Inepro, Itron, Kamstrup, Kisters, Landis+Gyr, NES, Sagemcom, SAP, Sigma Telas, Sierra Wireless, Vodafone, Wirepas, ZIV

Main activities in 2016-2017:

- updates on the latest EU activities
- organising a workshop on regulatory issues in October 2016, with ESMIG members and representatives of European institutions: Kaja Kallas, MEP and Mark van Stiphout, Deputy Head of Unit - Research and Innovation at DG Energy
- drafting position papers on "Delivering a new deal for energy consumers", Energy Efficiency and Energy Performance of Building Directives and Electricity Regulation and Directive
- replying to CEER consultation on "Incentivising scheme for Innovation by DSOs"

Security and Privacy Group (SPG)

The group supports the different stakeholders in the advanced smart metering infrastructure in integrating appropriate countermeasures on the level of system security and privacy for the use cases being relevant for smart metering systems.

Companies involved:

Elster, Gemalto, Gorlitz, Itron, Iskraemeco, Kamstrup, Kisters, Landis+Gyr, NES, Sagemcom, Sierra Wireless, Telit, u-blox, Vodafone, Wirepas, ZIV

Main activities in 2016-2017:

- contributing with a set of minimum security requirement to the Task Force Privacy and Security of the CEN/CENELEC/ETSI Coordination Group for Smart Meters
- proposing a certification approach based on these Minimum Security Requirements for smart meters
- joining and being active in the new organisation ECSO (European Cyber Security Organisation) that aims to improve the security of European products and infrastructures

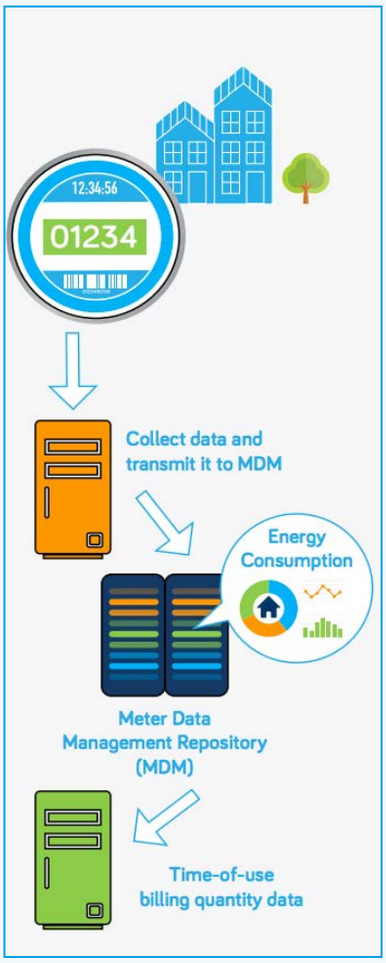
Communication Technologies Group (CTG)

The CTG handles all communication technology related topics that are of interest to ESMIG's members. The scope of the group ranges from the smart meters (and its interfaces) to the central Head End System that acts as an interface to all other utility systems. The interfaces of the AMI to smart grid applications (Electric Mobility, Distributed Energy Resources, Home Automation, etc.) are also in the scope of the CTG.

Companies involved:

Apator, Elster, Ericsson, Gemalto, Itron, Kamstrup, Kisters, Landis+Gyr, NES, Sagemcom, Sierra Wireless, Telit, u-blox, Vodafone, Wirepas, ZIV

Main activities in 2016-2017:



- following the developments in Working Groups 1, 3 and 12 of the Alliance for IoT Innovation (AIOTI)
- following the developments of the blockchain mechanism that can be used to create an open, standards - based system for energy trade and settlement with high availability
- following the status of Low Power Wide Area (LPWA) communication technologies for the IoT, including LTE-M, NB-IoT and LoRa
- following the status of 450 MHz related communication technologies in Europe
- joint work with the GSMA, SIMAlliance and Beecham Research to publish a white paper on the usage of the Embedded SIM for the Utilities sector
- following the work of the Smart Grid Task Force on Data Format and processes
- a new project, authorised by the European Commission and carried out by TNO, DNV GL and ESMIG investigates communication standards for demand response and includes a demonstration of these standards at EUW 2017 (ESMIG Pavilion)

Nicolas Damour, CTG Chair

Sierra Wireless values ESMIG as a forum where all stakeholders of the energy industry can exchange, discuss about potential issues and evaluate appropriate solutions. 2016 has been a successful year in the CTG and 2017 sees even more innovation and visibility of ESMIG's work for the benefit of the energy industry across Europe.

Marketing and Events Group (MEG)

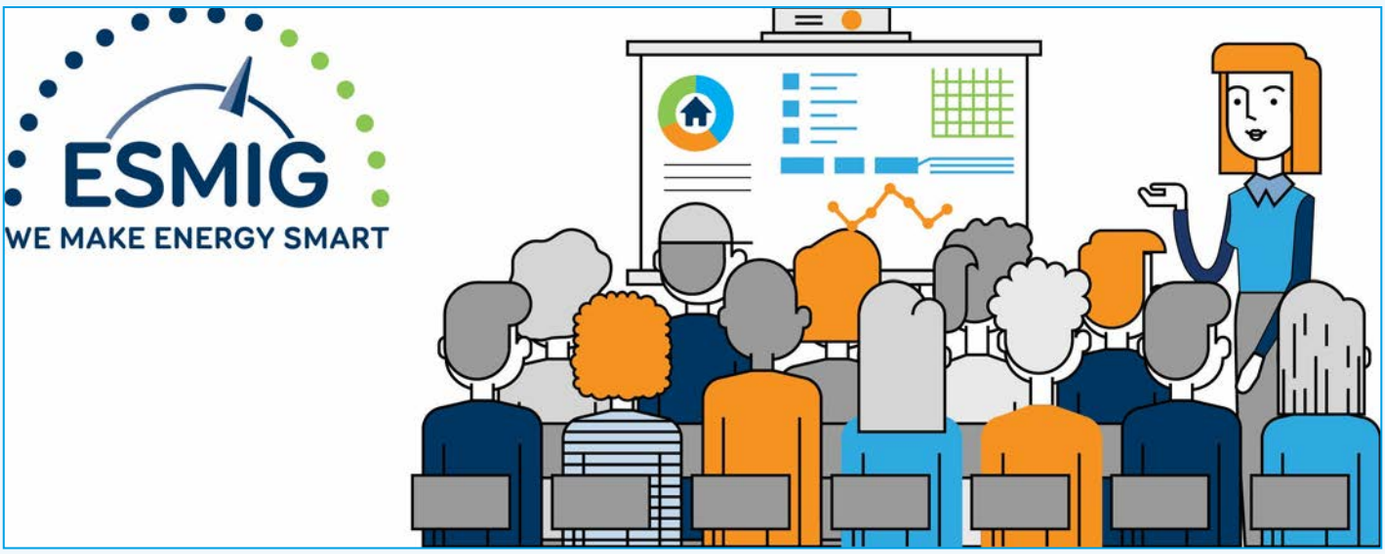
The MEG covers all marketing aspects of the organisation including all events where ESMIG is represented, its involvement in exhibitions and conferences, its web presence and any printed information. In addition, the contact with the media is managed by this group.

Companies involved:

Apator, Chameleon, Gemalto, Ericsson, Iskraemeco, Itron, Janz, Kamstrup, Landis +Gyr, Sierra Wireless, u-blox, Wirepas, ZIV

Main activities in 2016-2017:

- defining a long-term strategy and objectives for the group
- defining guidelines for collaborating with trade fairs
- planning the European Utility Week, including negotiations and discussions with the organisers for a dedicated area and special benefits for ESMIG members



ESMIG Netherlands

The Dutch group had a meeting in 2016 and discussed the current status of the Smart Meter roll-out in The Netherlands. The Dutch DSOs have different approaches for the WAN communication: CDMA 450 (Alliander) and LTE (Enexis). New topics to be discussed are: security certification in The Netherlands and the future of the gas infrastructure.

Involvement in External Groups

ESMIG chairs the Coordination Group for Smart Meters (CG-SM), a joint advisory body created by the European standardisation organisations CEN/CENELEC and ETSI. We are active in other expert groups such as the Smart Energy Grids Coordination Group, Smart Grid Task Force, and work closely with several European platforms/ associations in areas of common interest.

Smart Meters Coordination Group (SM-CG)

The Smart Meters Coordination Group, chaired by Willem Strabbing:

- officially published the minimum security requirements defined by our Security and Privacy Group
- discussed the standardisation work in the metering and home automation Technical Committees
- discussed the second roll-out of Smart Electricity Meters in Italy; these meters will comprise full functionalities for consumer data access
- organised a "Dissemination Event" on 8 December 2016 to inform about the work that the group has performed since its start in 2009, to hear about the status of smart meter roll-out in Europe and to discuss the future work plan
- agreed to continue the work on a security certification approach for Smart Meters, as proposed by our Security and Privacy Group

Smart Grid Task Force Expert Group 1 (SG-TF EG1)

Coordinated by ESMIG, this group has created a report about the interoperability of the consumer interfaces of the AMI. It explains what steps have to be taken to reach interoperability, such as the definition of Use Cases and data sets to be exchanged. It also lists some recommendations to be used by the Commission in the preparation of their "Clean Energy Package for all Europeans". The report has officially been published by the European Commission in August 2016.

The Smart Grid Task Force (SG-TF)

The group met on 17 February 2017 to discuss the 2016 results for its 5 Expert Groups: EG1 – Standards and interoperability, EG2 – Data protection and security, EG3 – Regulation, EG4 – Infrastructure, EG5 – Industrial Policy.

New work has been proposed on:

1. Data Format and Procedures, related to articles 23 and 24 of the draft Electricity Directive (based on the recommendations of EG1)

2. Cybersecurity (based on the recommendations of EG2)

3. Demand Response: new workshops have been proposed, based on the recommendations by EG3.

ESMIG will be active in all three topics and proposed to organise workshops on:

- boosting the smart meter roll-out
- formats and procedures for energy market data exchange
- Use Cases and market models for Demand Side Flexibility

The Alliance of IoT Innovation (AIOTI)

The AIOTI Board continued to focus on getting the AIOTI up and running, in addition to recent member activities such as the "match-making" event that took place in Brussels. The new AIOTI website, as well as a new AIOTI internal communications platform, will also be launched shortly.

WG3 is one of the most active groups in AIOTI. WG3 provided a global standards ecosystem survey report together with ETSI. In addition, WG3 has initiated a survey regarding various IoT identities and has published a joint white paper on data semantics. The CTG decided to provide input to WG3 regarding the reference architecture and standards for Demand Side Flexibility.

The IDEAS Group

The informal platform defining and presenting positions regarding the regulatory requirements for the introduction of Demand Response in Europe:

- organised an IDEAS session during the European Sustainable Energy Week (EUSEW) 2017: "Engaged customers driving the energy transition"
- drafted a joint statement on the Energy Efficiency Directive and the Renewable Energy Directive: "Energy Union proposals to unlock the benefits of demand side flexibility and energy efficiency"
- organised a meeting on 9 December 2016 in the European Parliament, to discuss with MEP assistants and advisers the flexibility challenges and the role of upcoming legislation to unleash potential of new business models. ESMIG replied to some specific questions of the MEP advisors regarding smart metering provisions in the "Clean energy for All Europeans" package
- discussed a new Terms of Reference - the group decided to add a definition of Demand-Side Flexibility to the current Terms of Reference

The European Cyber Security Organisation (ECSO)

ESMIG became a member of this group at the end of 2016. The main objective is to organise the definition of an approach for security certification of Smart Meters based on the Minimum Requirements defined by our Security and Privacy Group. ESMIG has proposed to start a pilot for the definition of a European security certification approach for smart meters. This should decrease substantially the cost of such certification that nowadays is country specific.

ETIP-SNET

A new group, ETIP-SNET (European Technology and Innovation Platform on Smart Networks for Energy Transition), has been created in July 2016 to work on the Research and Innovation program of the European Commission. ESMIG has been selected to chair one of the 5 Working Groups: "Digitisation of the electricity system and Customer participation".

ESMIG MEMBERS

ESMIG has 28 members companies that provide products, information technology and services solutions for electricity, gas, water or heat metering, data transfer and/or security, display and/or management of energy consumption and generation at consumer premises.

3.

Factsheet

Revenue

160 billion EUR

Total revenue of ESMIG member companies

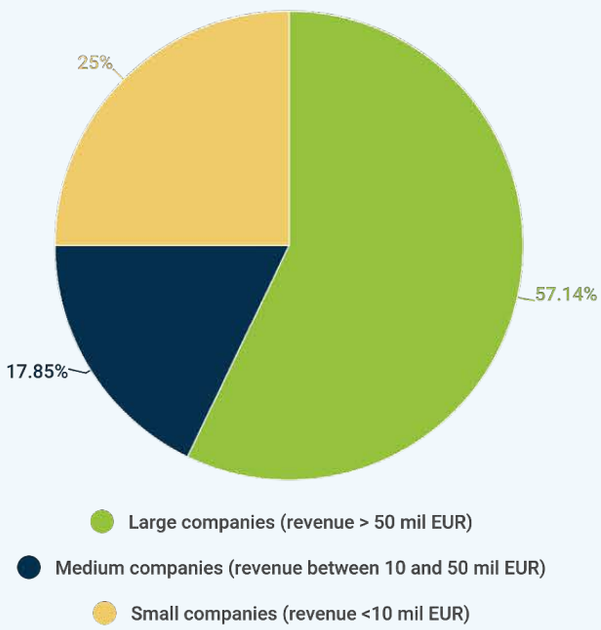
80 000 EUR

The smallest company in terms of revenue in the ESMIG membership

47 billion EUR

The largest company in terms of revenue in the ESMIG membership

Breakdown by revenue



Other facts

55+

ESMIG members have more than 55 factories/software development centres/excellence centres in Europe

22

ESMIG members have their headquarters in Europe

Employees

527775

Total employees of ESMIG member companies

7

The smallest company in terms of employees in the ESMIG membership

131000

The largest company in terms of employees in the ESMIG membership

Reach

ESMIG members cover all European countries and some of them more than 180 countries globally.

Aclara Technologies

St Louis, Missouri

United States

- electricity meters
- communications systems & components
- energy data visualisation
- IoT solutions
- grid sensors
- billing services
- network control

www.aclara.com

@AclaraSolutions

1 plant in Europe

Present in 4 European countries and 52 countries outside Europe

900 employees in total

Aclara Technologies is a world-class service provider of smart infrastructure solutions (SIS) to approximately 800 water, gas, and electric utilities globally. Aclara offers a robust end-to-end solutions portfolio including meters and edge devices to advanced metering infrastructure (AMI), headend and consumer engagement software, installation services, provision of labor and data analytics to equip operators with the actionable intelligence needed to manage their distribution networks. This comprehensive suite of products and services provides a single point of contact to address the needs of Aclara's utility partners from initial planning to implementation and beyond. Aclara is owned by an affiliate of Sun Capital Partners.

What's new in 2016/2017

- In December 2015, Aclara acquired the electric meters business operating within GE Energy Management's Grid Solutions subdivision and in August 2016 Aclara purchased the award-winning grid monitoring platform from Tollgrade Communications, Inc.
- Aclara opened a new Headquarters for International Operations in Bilbao, Spain and new facility in Cambridge, UK

Apator

Torun,
Poland

- electricity meters
- water meters
- gas meters
- IT solutions
- power automation products and services (for Smart Grids)

www.apator.com

8 plants in Europe

Present in 15 European countries and 11 countries outside Europe

2600 employees in Europe

On the basis of many years of experience, Apator Group provides metering equipment for all utilities (electricity, water, gas, heat), remote media reading systems and energy management applications.

Designing devices and services ensuring the effective and safe assets management is an important pillar of the company's business.

Power network automation systems and services for Smart Grids like SCADA and Asset Management Systems are our important business activities.

Our goal is not only creating new technologies to effectively manage every kind of energy, but also customer safety and care for the environment.

What's new in 2016/2017

- involved in European smart metering roll-out projects for gas and electricity
- establishing new standards for grid automation systems
- developing and supporting open smart metering and smart grids protocols like PRIME, G3 PLC, OSGP, DLMS, SCADA IEC 61850 and many others

Chameleon

CHAMELEON™

Harrogate,

United Kingdom

- In-Home Displays for Smart Meters
- Consumer Access Devices for Smart Meters

www.chamaleontechnology.co.uk

Present in UK

25 employees in Europe

Chameleon Technology designs and manufactures bespoke in-home displays, consumer access devices and cloud services for the global smart meter market. We also create standalone and embedded solutions to optimise products and services for Connected Homes.

For three consecutive years, Chameleon has won the European Home Energy Monitor of the Year award, recognising its outstanding technical and design capabilities and commitment to creating an engaging and intuitive user experience. Chameleon's in-home displays and consumer access devices are interoperable and integrated with leading smart meter manufacturers.

What's new in 2016/2017

Winner of the European Home Energy Monitor Award 2016, 2015, 2014

Elster Group

Mainz-Kastel, Germany

- electricity meters
- communications and energy management platforms
- gas meters, systems, heat process units, technologies
- metering and communication systems for water utilities

www.elster.com

Present in 11 European countries and 45 countries outside Europe

131000 employees (Honeywell data,2016)

Elster is a world leader in measuring and improving the flow of natural gas, electricity and water in more than 130 countries. With one of the most extensive installed revenue measurement bases in the world and more than 200 million metering modules deployed over the course of the last 10 years alone, Elster is enabling the vital connections between technology and Earth's energy and resources for our global community. Elster was acquired by Honeywell in December 2015 and is now part of Honeywell Home and Building Technologies business.

What's new in 2016/2017

A new study by independent analyst firm Verdantix analysing and comparing the Monitoring & Targeting (M&T) functionality of leading global energy management software solutions highlighted Honeywell's Elster EnergyICT Enacto™ energy management solution for its ability to gather, track and analyse energy data from a facility and successfully link that functionality into building optimisation and maintenance systems.

Ericsson

ERICSSON

Stockholm, Sweden

- smart metering and utility communication - utilizing cellular, IoT/ M2M technologies, platforms and services for communication
- customer and revenue management

www.ericsson.com/utilities

@EricssonCities

Present in 180 countries globally

32000 employees in Europe

Ericsson is building the Networked Society drawing strength from 140 years of innovation and transformation, exploring the potential of IoT and 5G in the digital transformation of utilities.

As a market leader in cellular networks, IoT and 5G, we believe that the utility industry can make good use of ICT and communication in the transformation process.

Besides being a strong player in Smart Grid Communications, we are a market leader in Smart Metering with more than 42 million meters connected to systems we are commercially engaged with.

What's new in 2016/2017

- Salzburg Netz selects Ericsson for smart meter integration - IT systems for Meter data management, alarm handling, workforce management, consumer portal interfaces and end-to-end testing for 470 000 smart meters
- Singtel selects Ericsson to ready the 4G LTE network to support the expected rapid growth of connected devices

First Fuel

FIRSTFUEL

Lexington, MA, United States

- information technology
- platform for user engagement & advice
- data analytics

www.firstfuel.com

@FirstFuelSW

Present in UK, US and Canada

150 employees

FirstFuel Software is the global leader in business customer engagement for the energy industry, using advanced analytics to help over 30 energy providers in North America and Europe improve business customer satisfaction, drive sales and revenue, and increase program participation.

Combining data science, building science, and software, our digital engagement platform derives intelligence from over 3 million meters, transforming energy providers into trusted advisers to their business customers. Our SaaS solutions deliver accurate, insightful, and cost-effective results at scale.

Founded in 2010 and privately held, FirstFuel is headquartered in Lexington, MA. For more information about FirstFuel, please visit www.firstfuel.com and follow us on Twitter @FirstFuelSW.

What's new in 2016/2017

Establishment of European offices and increase in team members.

GE Power

Schenectady, New York, United States

- data analytics
- cybersecurity
- operations optimisation
- power plant solutions

www.gepower.com

9 major sites in Europe

Present in150 countries

60000 employees

GE Power is a world leader in power generation with deep domain expertise to help customers deliver electricity from a wide spectrum of fuel sources. We are transforming the electricity industry with the digital power plant, the world's largest and most efficient gas turbine, full balance of plant, upgrade and service solutions as well as our data-leveraging software. Our innovative technologies and digital offerings help make power more affordable, reliable, accessible and sustainable.

What's new in 2016/2017

- GE signs key orders for Integrated Compressor Line (ICL) for the European Energy Market
- GE Supports Power Grids of the Future with Europe's First MVDC Link
- GE Expands Board-Level Power Conversion Capabilities with Next-Generation DLynx* II Digital, Non-Isolated DC-DC Voltage Converters
- Vattenfall Selects GE to Help Ensure German City's Heat Supply

Gemalto

Meudon, France

- digital security
- encryption solutions
- cellular wireless modules
- eSIM solutions
- trusted key manager

www.gemalto.com

@Gemalto, @GemaltoIoT

Present in more than 180 countries

15000 employees worldwide

Gemalto (Euronext NL0000400653 GTO) is the global leader in digital security. We bring trust to an increasingly connected world.

Our technologies and services enable businesses and governments to authenticate identities and protect data so they stay safe and enable services in personal devices, connected objects, the cloud and in between.

Gemalto's solutions are at the heart of modern life, from payment to enterprise security and the internet of things. We authenticate people, transactions and objects, encrypt data and create value for software – enabling our clients to deliver secure digital services for billions of individuals and things.

What's new in 2016/2017

- actively working towards a new mind-set: the key to our new energy world is leveraging transparent, real time power data, secure smart energy technology and new business models
- Gemalto has been helping existing and future stakeholders to bring trust in the ecosystem, to move to a better and more responsible Smart Energy world

geo (Green Energy Options)

geo
smarter energy

Cambridge,
United Kingdom

- energy monitors
- smart metering devices
- solar monitors

www.geotogether.com
@geomonitors

Present in 7 European countries

60 employees in Europe

geo designs and manufactures smart metering displays, home energy management systems and web based energy services and mobile applications that make energy engaging for the consumer. Our aim is to enable utilities to strengthen their relationships with their customers. Our products & services work both prior to and after installing smart meters to enable the energy-efficient home.

Based in Cambridge, UK, geo (Green Energy Options) has grown since its creation in 2006 to be one of the leading manufacturers of energy displays worldwide, with nearly 3m systems supplied and an extensive network of commercial partnerships.

What's new in 2016/2017

- geo is the leading provider of In Home Displays to the UK Smart Metering Programme and has sold over 3.5m systems
- among numerous Innovation awards, in 2017 geo was awarded the Queen's Award for Enterprise: Innovation
- the company is pioneering a new approach, the "hybrid energy home", which aims to equip consumers with the monitoring technology they need to blend traditional and cutting edge energy efficiency techniques

HelloData

Arnhem,
The Netherlands

- smart meter data
- data platform
- consumer engagement

www.hellodata.org
@HelloData

Present in The Netherlands

12 employees

We want to establish an open standard for the secure sharing of real-time energy data from a smart meter.

Because of the translation into an open standard, grid operators and energy suppliers can easily establish an independent connectivity between apps and energy consumption within households.

Giving consumers freedom of choice about the energy services and apps they utilise to make smarter use of their energy.

Also the consumer can manage their energy, because they have more control over their energy data. The consumers decide for themselves which data they share when, and with whom.

Iskraemeco

Kranj, Slovenia

- electricity meters
- communication tools
- software solutions
- support services

www.iskraemeco.com

4 plants in Europe

Present in 23 European countries and 30 countries outside Europe

800 employees in Europe

Iskraemeco is one of the leading smart metering solution providers on a global scale. Since 1945, Iskraemeco employees have been transforming valuable experience, innovation and a sound understanding of customer needs into comprehensive energy management solutions. With electricity meters addressing diverse market demands, a variety of communication options, software for meter data management and comprehensive services we help energy companies shape the future of energy generation and management. Iskraemeco has an established network of partners, subsidiaries and production facilities that offer reliable and efficient support services to our entire client base.

What's new in 2016/2017

- established a new company called Digital Grid Solutions GmbH (DGS) that provides its Austrian customers with a full suite of metering solutions and local support services
- formed a strategic partnership with a Swiss smart metering provider, E-lynx
- 95 000 Iskraemeco smart meters to be delivered in partnership with Siemens Österreich within the next two years

Itron

Liberty Lake,
United States

- metering devices
- smart metering software
- data analytics
- smart grid communication network solutions

www.itron.com

Present in 8 European countries, APAC, Africa, Latin America and United States

3000 employees in Europe

Itron is a world-leading technology and services company dedicated to the resourceful use of energy and water.

We provide comprehensive solutions that measure, manage and analyse energy and water.

Our broad product portfolio includes electricity, gas, water and thermal energy measurement devices and control technology, communications systems, software, as well as managed and consulting services.

With thousands of employees supporting nearly 8 000 customers in more than 100 countries, Itron applies knowledge and technology to better manage energy and water resources.

What's new in 2016/2017

Supporting our clients to deploy two-way communicating meters throughout the region with edge intelligence and distributed analytics.

Janz

JANZ

Lisbon, Portugal

smart grid and AMM solutions: meters, communication modems and management software

www.janzce.pt

1 plant in Europe

Present in 2 European countries and 9 countries outside Europe

72 employees in Europe

Janz is renowned for its precision measuring devices and is one of the most competitive suppliers of energy metering products and systems for energy management. It provides products to a high quality and the company, its laboratories and its processes fulfill the requirements of several international standards (e. g. ISO 9001: 2015 and EN ISO/IEC 17025). In particular, its products meet international standards to an expected lifetime for 20 years.

The company is headquartered in Lisbon (Portugal) and it is particularly strong in the Portuguese market, in the export markets (Spain, Angola, Cape Vert, Mozambique and Macao) and now in the Latin American markets as well (Venezuela, Colombia and others). A strong partnership with Contar Electrónica Industrial Lda, allows Janz to offer always the state of art in metering technology.

What's new in 2016/2017

Presented the first new meter with 4,5G NBIOT communication technology.

Kamstrup

Stilling, Denmark

- consumption meters
- meter communication infrastructure
- meter data management systems
- smart grid applications
- hosted solutions

www.kamstrup.com

Denmark, Sweden

Present in18 European countries and 7 countries outside Europe

1050 employees in Europe

Kamstrup is a world-leading supplier of energy and water metering solutions. Our solutions support utilities and are also applied in properties with individual metering. For 70 years, we have delivered reliable, cost-effective ways to measure and manage energy and water consumption worldwide. By anticipating our customers' challenges, we enable them to run a better business and inspire smarter, more responsible solutions for the communities they serve. Our solutions include consumption meters, smart metering systems, hosting and services, analytics and smart grid applications. All the products are produced with the highest certifications for environmental safety and quality in our automated production facilities in Denmark.

What's new in 2016/2017

- massive roll-out of 1 million smart meters on track, in partnership with Radius, part of the DONG Energy Group in Denmark
- detailed insight into the low-voltage grid, via the REMOTEGRID project - a joint effort from Aalborg University, Danish DSO Thy-Mors Energi and Kamstrup

Kisters

KISTERS

Aachen, Germany

- energy data management
- automatic meter reading
- optimisation
- forecast

www.kisters.com

Present in 19 European countries and 12 countries outside Europe

520 employees

KISTERS produces market-compliant, pioneering software solutions for the energy industry with its business areas of energy production, distribution, marketing/trading and use. Our portfolio includes solutions for energy data management, portfolio management, forecasting, virtual power plant management, smart metering, smart grid/control technology/ SCADA and lifecycle and asset management of plants and grids. Over 750 companies in the energy industry rely on KISTERS software.

What's new in 2016/2017

- Besides the well-proven KISTERS Water Solution and AquisNet for air quality monitoring networks, KISTERS presented the all-new Data Analytics Platform, an all-inclusive solution for data centralization, validation, analysis, reporting and dissemination
- KISTERS launched the next generation of water data management: the Water-Portal. The user can access current data - no matter if in raw state or validated - in station detail apps he can launch from the map

Landis+Gyr

Zug, Switzerland

- electricity meters
- smart gas meters
- communication modules
- gateways
- AMI software
- data analytics

www.landisgyr.eu
@Landisgyr

12 plants in Europe

Present in17 European countries and 15 countries outside Europe

2600 employees in Europe

Landis+Gyr is the leading global provider of integrated energy management solutions for the utility sector. Offering the broadest portfolio of products and services to address complex industry challenges, the company delivers comprehensive solutions for the foundation of a smarter grid, including smart metering, distribution network sensing and automation tools, load control, analytics and energy storage. With annualised sales of more than USD 1.6 billion, Landis+Gyr, an independent growth platform of the Toshiba Corporation and 40% owned by the Innovation Network Corporation of Japan (INCJ), operates across five continents, and employs 6 000 people with the sole mission of helping the world manage energy better.

What's new in 2016/2017

New contracts with: •Netz Burgenland Strom (Austria) for G3-PLC based smart metering solution Gridstream •Austrian energy consortium (Energie Steiermark, Energie Graz, Feistritzwerke Steweag, Energy Services) for 330 000 smart electricity meters •Enedis (France) for 80 000 3-phase CT-connected meter, •Iberdrola (Spain) for more than 700 000 smart meters

Luna

LUNA
ELEKTRİK ELEKTRONİK SAN. TİC. A.Ş.

Izmir,
Turkey

- energy smart meters
- data concentrator and modems for smart grid applications and AMR systems
- smart GSM Modem for AMR Metering applications

www.lunatr.com

Izmir, Turkey

300 employees

The corporate group including LUNA was founded in 1991, in the business of design and manufacturing of electronic circuits and products for controlling and measuring electrical energy.

LUNA carries out its design and production of electricity meters, the development of software and hardware for the communication between the meters, in its own registered R&D Centre and warehouse in Izmir, Turkey.

Currently with 400 000 meters monthly production rate, it is the biggest supplier to the public and government metering needs in Turkey with its ready plug and play smart grid solutions as a complete system for electrical energy management as well as water metering solutions.

What's new in 2016/2017

- panel type split meters were submitted in 2016 and they are going to be widely used as an alternative for safe metering for anti-tamper solution
- Luna became a member of G3 Alliance for PLC solution and it is in the phase of certification of G3 in 2017

NES (Networked Energy Services)

San Jose, CA,
United States

- smart meters
- smart grid devices
- control nodes
- communication devices & software
- data collection software
- energy based analytics

www.networkedenergy.com

Kwidzyn, Poland

Present in 12 European countries and 10+ countries outside Europe

100+ employees

NES is a global smart energy leader in the worldwide transformation of the electricity grid into an energy control network, enabling utilities to offer services to help reduce operating costs, provide expanded services and conserve energy. NES's technology is used in more than 40 million smart meters by utilities around the world. The company was formed as a result of the spinoff of Echelon Corporation's Grid Modernization Division in October 2014. NES has its headquarters in the US, with design and R&D Centers located in Silicon Valley/ California, Fargo/North Dakota, Gdansk/Poland, and sales offices throughout the world.

What's new in 2016/2017

- introduced a new Generation of our metering platform with advanced functionality and enhanced security
- added several smart grid applications to its Energy Applications platform focused on operational efficiencies and low voltage grid management extending grid asset life
- had its meters certified by the G3-PLC Alliance, enabling extension of existing portfolio of communication technologies

Sagemcom Energy & Telecom

Rueil-Malmaison, France

- electricity meters
- gas meters
- communication modems
- data concentrators
- head-end system
- meter data management

www.sagemcom.com
@Sagemcom

2 plants in Europe

Present in 18 European countries and 17 countries outside Europe

4000 employees

Sagemcom Energy & Telecom concentrates Sagemcom's expertise in telecom and metering, enabling the supply of customized connected systems to utilities, telecom operators and services operators worldwide. Thanks to the talents of its R&D and its industrial capacities, Sagemcom Energy & Telecom operates in smart meter, smart grid, smart sites, smart infra and smart services markets. The combination of these activities allows addressing increasing needs of vertical markets and allows Energy & Telecom Business Unit to propose efficient end-to-end turnkey solutions through its high value added equipment and platforms making easily smart environments a reality.

What's new in 2016/2017

- showcased latest G3-PLC certified T210 CEN-A/FCC three phase electricity meter supporting both Cenelec A (European) and FCC (North America) G3-PLC protocol in a single electricity meter
- selected for the development and supply of the ESMR5.0 smart electricity meters in the Netherlands, which will contribute to the smart metering program of Enexis for the period Q4 2016 – 2021 (with optional extensions to 2026)

SAP

Waldorf, Germany

- energy supply chain optimisation
- operational efficiency for plants and grids
- meter data management
- customer experience

www.sap.com

@sap

Present in over 190 countries worldwide

33906 employees in Europe

As market leader in enterprise application software, SAP (NYSE: SAP) helps companies of all sizes and industries run better. From back office to boardroom, warehouse to storefront, desktop to mobile device – SAP empowers people and organisations to work together more efficiently and use business insight more effectively to stay ahead of the competition. SAP applications and services enable customers to operate profitably, adapt continuously, and grow sustainably.

What's new in 2016/2017

- Siemens and SAP have signed a global reseller agreement through which SAP will globally resell Siemens' market-leading meter data management solution, EnergyIP. The agreement will combine SAP for Utilities solutions with Siemens' meter data management solutions
- Robert Bosch GmbH and SAP have formed a strategic partnership for the Internet of Things (IoT) and Industry 4.0. Both companies want to expand their collaboration on cloud technologies and software solutions

Sierra Wireless

SIERRA WIRELESS™

Richmond, Canada

- embedded wireless modules
- gateways
- cloud and connectivity services

www.sierrawireless.com

@sierrawireless

Present in 130+ countries

1150 employees

Sierra Wireless is building the Internet of Things with intelligent wireless solutions that empower organisations to innovate in the connected world. We offer the industry's most comprehensive portfolio of 2G, 3G and 4G embedded modules and gateways, seamlessly integrated with our secure cloud and connectivity services. OEMs and enterprises worldwide trust our innovative solutions to get their connected products and services to market faster. Sierra Wireless has more than 1,000 employees globally and operates R&D centres in North America, Europe and Asia.

What's new in 2016/2017

- delivered modules for Telstra's upcoming Cat-M1 network using Altair's LTE platform to enable Landis+Gyr's industry first live Cat-M1 smart meter trial
- launched world's first plug-and-play technology to simplify the complex Internet of Things
- AT&T and Sierra Wireless Pilot LTE-M Modules for Internet of Things
- partnered with OriginGPS to deliver the industry's smallest 2G to 4G GNSS solution for IoT devices

Sigma Telas

Vilnius, Lithuania

- SCADA systems
- Automated Energy Accounting Systems

www.sigmatelas.eu

Present in 3 European countries and 4 countries outside Europe

50 employees in Europe

JSC "Sigma Telas", founded in 1992, is the Smart Metering and AMI/MDM Software developer and system integrator with extended expertise in large-scale projects. Our reference projects are together with 3 National Grid Operating Companies - Transmission System Operator LitGrid in Lithuania, National electricity operators BelEnergo in Belarus and KEGOC in Kazakhstan. They include large installations for electricity, gas and heat distribution companies, national railway companies, large industrial corporations, telecommunication companies and retail chain operators. Sigma Telas has over 700 implemented projects, with more than 100 000 meters in bigger projects.

What's new in 2016/2017

- large scale projects in Lithuania, Latvia, Kazakhstan and further implementation in Uzbekistan
- new projects for gas metering in Lithuania and Uzbekistan, heat metering in Kazakhstan and Lithuania

Telit

London,
United Kingdom

- modules: cellular (2G, CDMA, 3G, EDVO, LTE), short range & RF (ZigBee, WM-Bus, Bluetooth Low Energy, WiFi, Star networks and LPWA: Sigfox, LoRa), GNSS
- portable protocol stacks
- IoT portal services

www.telit.com

Present in all European countries and on all continents

460 employees in Europe

Telit is a global leader in Internet of Things (IoT) enablement. The company offers the industry's broadest portfolio of integrated products and services for end-to-end IoT deployments – including cellular communication modules in all technologies, GNSS, short-to-long range wireless modules, IoT connectivity plans and IoT platform services. For the Energy sector, Telit offers a portfolio of modules specifically designed for cellular smart metering/grid that are used in projects around the globe. The company offers a strong selection of low-power variants in different form factors to cater to the rising demand for battery-powered applications in the metering sector.

What's new in 2016/2017

- principal cellular supplier of GB SMIP project for both Foundation (2G) and Enduring (3G) phases
- supplier to the Netbeeher project in Netherlands initially with 2G modules and now with CDMA 450 MHz on top for Utility Connect
- supplier of cellular modules for PLC concentrators dedicated to Enel in Italy, Enedis in France and Endesa in Spain
- supplier of the Italian gas utilities both with 2G and WMBus modules

u-blox

Thalwil, Switzerland

cellular modules based on GSM/GPRS, CDMA, UMTS/HSPA, NB-IoT, LTE and RPMA cellular technologies

www.u-blox.com

@ublox

1 plant in Europe

Present in 20 European countries and 13 countries outside Europe

635 employees in Europe

Swiss u-blox (SIX:UBXN) is a global leader in wireless and positioning modules and chips for the automotive, industrial and consumer markets. u-blox solutions enable people, vehicles and machines to locate their exact position and communicate wirelessly over cellular and short range networks. With a broad portfolio of chips, modules and software solutions, u-blox is uniquely positioned to empower OEMs to develop innovative solutions for the Internet of Things, quickly and cost-effectively. With headquarters in Thalwil, Switzerland, u-blox is globally present with offices in Europe, Asia, and the USA.

What's new in 2016/2017

- announced world's smallest quad-band LTE Cat M1 module, ideal for multi-regional IoT and M2M applications
- announced the LARA–R3121, a new module comprising a single mode LTE Category 1 modem and a GNSS (Global Navigation Satellite System) positioning engine specifically designed for IoT and M2M devices
- Narrowband IoT module optimised for applications that need to securely communicate small amounts of data over long periods

Vodafone

Berkshire,
United Kingdom

- smart metering solutions
- IoT platform
- utility services

www.vodafone.com

1 plant in Europe

Present in 12 European countries and 16 countries outside Europe

56 854 employees in Europe

Vodafone is one of the world's largest telecommunications companies and provides a range of services including voice, messaging, data and fixed communications. Vodafone has mobile operations in 26 countries, partners with mobile networks in 48 more, and fixed broadband operations in 17 markets. We have more than 470 million mobile customers and 14.3 million fixed broadband customers.

Vodafone Internet of Things (IoT) connects machines, devices and objects to the internet, turning them into "intelligent" assets that communicate with the world around them without the need for human intervention. Supported by more than 1400 dedicated employees, Vodafone is transforming lives and businesses with IoT.

We have been positioned as a Leader in the global IoT services market by various prominent industry analysts including Machina Research and Gartner Magic Quadrant.

What's new in 2016/2017

Leading in the development of Narrowband IoT (NB-IoT), that can address new areas like water metering where battery life and deep coverage are an issue.

Watt-IS

Torres Vedras, Portugal

data analytics modules offered in a Saas model or vertically integrated into user engagement and advice platform focused on energy efficiency

www.watt-is.com

@Watt_IS

Present in Portugal

7 employees

Watt-IS (Watt Intelligent Solutions) is a data analytics startup company that focuses on translating complex energy consumption data provided from smart meters into simple to understand energy efficiency measures that every household or small business owners (SME's) can understand and act upon to become more energy efficient.

Watt-IS provides Energy Utilities and Energy Services Companies (ESCO's) a toolkit of data analytics modules in a SaaS model, or vertically integrated into cloud-based user engagement platforms that, from the analysis of smart metering data, aim to promote energy efficiency to their end clients (households or SME's), fostering user satisfaction and the reduction of churn rates in highly competitive markets.

What's new in 2016/2017

- automated energy efficiency tool deployed for Portuguese energy retailer as a generator of additional revenue streams that uses data analytics on top of smart metering data to provide tailor-made energy efficiency measures for energy clients
- EU SME Instrument Phase 1 award

Wirepas

Tampere, Finland

decentralised radio communications protocol for large-scale IoT applications

protocol software that can be used in any device, with any radio chip and on any radio band

www.wirepas.com

@wirepas

Present in 4 European countries and 3 countries outside Europe

30 employees in Europe

Wirepas is focused on providing the most reliable, optimised, scalable and easy to use device connectivity for its customers. Wirepas Connectivity is a decentralised radio communications protocol that can be used in any device, with any radio chip and on any radio band. With Wirepas Connectivity there is no need for traditional repeaters because every wireless device is a smart router of the network. The connected devices form the network - easy as that. Wirepas has its headquarters in Tampere, Finland and offices in Australia, France, Germany, South Korea, the UK and the United States.

What's new in 2016/2017

Smart meter roll-out in Norway for over 1.5 million meters.

ZIV Automation

SMART GRID Solutions by

Zamudio,
Spain

- electrical smart meters & data concentrator units
- communication & automation solutions

www.zivautomation.com

5 plants in Europe

Present in 7 European countries and 11 countries outside Europe

384 employees in Europe

ZIV was born in 1993 to offer innovative solutions to generation, transmission and distribution utilities. As a key player in the global smart grid market its digital solutions contribute to the sustainability of energy networks worldwide.

Today ZIV is ready to face new challenges to support the evolution of DSOs and TSOs with supporting services, and a broad and flexible solution portfolio born from a unique mix of knowledge and experience in protection & control, communication and metering technologies.

ZIV Automation product portfolio comprises a variety of smart devices for Distribution Networks:

Metering, Automation & Communication Solutions to Make the Smart Grid real.

What's new in 2016/2017

- intensive R&D
- Quality, Enviromental and Health & Safety certifications: Quality Management System Certificate ISO 9001, Environmental Management System Certificate ISO 14001, Occupational Health and Safety Management System OHSAS 18001, Information Systems ISO/IEC 27001

Becoming an ESMIG Member

If you are a company:

1. with a registered and permanent staffed office in a member state of the European Union, the European Free Trade Area (EFTA) or a candidate country

2. that provides products, information technology or services on the European market for electricity, gas, water or heat metering, data processing or security, display and/or management of energy consumption and generation at consumer premises

3. with an interest in advancing your products in Europe and contributing to a smarter energy future for Europe

...why not join us?

We provide:

- representation in key EU-level fora
- intelligence: latest insights in the EU market developments through reports, studies, news
- special conditions at the top event for Europe's smart energy industry – European Utility Week
- a platform to work on your topic of interest, together with other experts, on issues of vital importance to the advancement of the industry

Your contacts

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