

28-29 January, Lancaster Hotel, London



7th Annual
SMART ENERGY UK & EUROPE 2016

Europe's leading and longest established Smart Energy Summit

Featuring **7th EUROPEAN SMART ENERGY**
awards ceremony 2016

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**Developments, Challenges and Opportunities
in Smart Technology for Utilities**

ATTENDED BY
THE
UK'S 6 LARGEST
ENERGY
SUPPLIERS

5 CONFERENCES
PACKED
INTO 2
DAYS



SMART METERING
UK & EUROPE



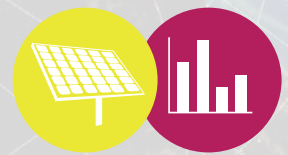
SMART CITIES, IoT
(Internet of Things) &
THE CONNECTED HOME



SMART GRIDS-
OPTIMISATION INTEGRATION
& COMMUNICATION



SMART WATER &
GAS METERING



BIG DATA, ANALYTICS
& ENERGY STORAGE

Policy & Regulation	Metering Roll-outs	Retail Market Review	Consumer Engagement	Field Operation Management
Smart Innovations	Asset Financing	Smarter Energy Storage	Future Cities	Data Security

GOLD EVENT SPONSORS:

SILVER EVENT SPONSORS:

ADDITIONAL EVENT SPONSORS/EXHIBITORS:

SPEAKERS

KEYNOTE PLENARY SESSION:



Judicaelle Hammond
Deputy Director, Policy and Consumers, Smart Metering Implementation Programme
Department of Energy & Climate Change (DECC)



Ângelo Sarmento,
Member of the Board
EDP Distribuição



David Brooks
Commercial Director
Good Energy



SSE, Sara-Jane Asquith,
Director of Metering and Smart Transformation



Smart Energy GB, Claire Maugham, Director of Communications



Smart Energy Demand Coalition, Jessica Stromback, Chairman



RWE npower, Neil Pennington,
Director of Innovation



Paulo Libano Monteiro, Member,
EDSO for Smart Grids &
Director of Technology and Innovation, **EDP Distribuição**



Eneco, Fonger Ypma, Big Data Lead



Nest Labs, Andy Baynes,
Director Business Development & Energy Efficiency



City of Stockholm, Gustaf Landahl, Head of Department, GrowSmarter Project



AES, Dominique Laurent,
Business Development Director – UK & Ireland



RWE npower, Simon Harrison,
Head of Technology, UK Innovation



British Gas, Neal Coady, Head of Innovation



Actility, Paul Cobos, Regional Sales Director



C3 Energy, Julien Groues,
Senior Vice President, EMEA



E-Control, Leo Kammerdiener, Smart Meter Expert



ESMIG, Willem Strabbing,
Managing Director



Enel SpA, Antonio Buondonno,
Head Of Network Technology and Engineering Sales – Business Development, Global Infrastructure and Networks Division



Fortum, Johan Ander, Program Manager, Smart City Program



Co-operative Energy, Stephen Rowe, Head of Regulation & Compliance



Energy UK, Rosie McGlynn,
Head of Smart Energy and Networks Programme



Thames Water, Martin Hall,
Metering Technology Manager



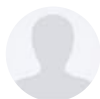
Liander N.V., Frans Campfens,
Senior Business Architect, Asset Management



BEAMA, Jeremy Yapp, Deputy Director, Smart Metering



United Utilities, Neil Harper,
Metering Strategy Manager



Red Eléctrica de España, Susana Bañares Hernández,
Head of Demand Side Management



Indra, Leonardo Benitez,
Utilities Director



Innovate UK, Jonny Voon,
Lead Technologist - Internet Technology



Data and Communications Company, Joan Whitehead,
Chief Operating Officer



Ofgem, Tom Handysides,
Senior Policy Manager, Smarter Metering



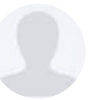
OnTheRecord, Zoe McLeod,
Director



Citizens Advice, Colin Griffiths,
Smart Meters Policy Manager



Saviant Consulting, Anubhav Dwivedi, CEO & Founder






















Microsoft, Simon Francis, IoT Commercial Sales Lead



Sutton and East Surrey Water, Jeremy Heath, Network Manager

SPEAKERS

 <p>EURELECTRIC, Pavla Mandatova, Advisor - Retail Customers Unit</p>	 <p>Opower, Simon Hill, Vice President for Europe, the Middle East and Africa (EMEA)</p>	 <p>AIT Austrian Institute of Technology, Dr. Werner Friedl, Energy Department - Electric Energy Systems</p>
 <p>DNV GL Energy, Dr Matthew Rowe, Consultant for Operational Excellence</p>	 <p>VaasaETT, Dr Philip E. Lewis, CEO and Founder</p>	 <p>Holley Metering, Steve Roberts, Sales and Marketing Director – UK</p>
 <p>ClickSoftware, Marina Stedman, Marketing Director, EMEA</p>	 <p>ENCS, Klaus Kursawe, Director Research and Development</p>	 <p>VaasaETT, Thomas Mikkelsen, Director of Consulting, VaasaETT</p>
 <p>Imperial College London, Goran Strbac, Professor of Electrical Energy Systems</p>	 <p>SolarPower Europe, James Watson, Chief Executive</p>	 <p>USEF, Mr. Frits Verheij, Executive Board Member</p>
 <p>University of Oxford, Future of Cities Programme, Dr Igor Calzada MBA, Lecturer, Research Fellow and Policy Adviser</p>	 <p>Enel SpA, Senior Representative</p>	 <p>University of Exeter, Dr Lydia Vamvakeridou-Lyroudia, Senior Research Fellow</p>
 <p>Auto Grid, Senior Representative</p>	 <p>Tempus Energy, Nick Butlin, Director, Operations & Technology</p>	 <p>Innovate UK, Mark Thompson, Lead Technologist – Energy Systems</p>
 <p>UK Power Networks, Adriana Laguna-Estopier, Low Carbon Technologies Manager, Future Networks</p>		

PARTNERS

EVENT PARTNERS:



MEDIA PARTNERS:



OPENING PLENARY SESSION

08.30 Registration & Coffee

09.15 Welcome Address from Oliver Kinross and Chairman's Opening Plenary Session

Chairman: **Ted Brown**, Chairman, Energy Saving Trust

09.30 Opening Keynote Utility Leader's Panel Discussion: the Role of Utilities as part of Europe's Smart Energy Future

Moderator:

Ted Brown, Chairman, Energy Saving Trust

Panelists:

Ângelo Sarmiento, Member Of The Board, EDP Distribuição

David Brooks, Commercial Director, Good Energy

10.15 An Update from the Department of Energy and Climate Change (DECC)

- Government's priorities and energy efficiency
- Our ambitions for smart metering
- Expectations for the roll-out in 2016
- Unlocking the future to a smarter Britain or encouraging innovation in other areas eg energy storage

Judicaelle Hammond, Deputy Director, Policy and Consumers, Smart Metering Implementation Programme, Department of Energy & Climate Change (DECC)

10.45 Networking & Coffee



SMART METERING
UK & EUROPE

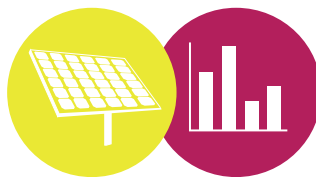
STREAM A

Chairman: **Ted Brown**, Chairman, Energy Saving Trust

11.20 A Cost-Effective and Customer-Centric Roll-Out

- What does a cost-effective and customer-centric roll-out really mean?
- How does the UK roll-out stack up?
- What stands in the way of a cost-effective and customer-centric roll-out?
- And how can these constraints be overcome?

Sara-Jane Asquith, Director of Metering and Smart Transformation, SSE



BIG DATA, ANALYTICS
& ENERGY STORAGE

STREAM B

Chairman: **Frans Campfens**, Senior Business Architect, Asset Management, Liander N.V

11.20 Panel Discussion: The Big Data Evolution

- The impacts of IoT on big data
- Applications in big data
- Connected data from big data and how to create value
- Building good data relationships with consumers
- Development of business models for handling & using data - regulation, compliance, advantages
- Analytics and data storage - optimised storage systems for smarter storage

Panelists:

Fonger Ypma, Big Data Lead, Eneco

Anubhav Dwivedi, CEO & Founder, Saviant Consulting

Simon Francis, IoT Commercial Sales Lead, Microsoft



SMART WATER &
GAS METERING

STREAM C

Chairman: **TBC**

11.20 Panel Discussion: UK & EU Water Utilities

- What are the latest smart water metering industry developments?
- Key challenges facing water utilities
- Requirements for successful smart metering deployments

Panelists:

Jeremy Heath, Network Manager, Sutton and East Surrey Water

Senior Representative, Diehl Metering

Neil Harper, Metering Strategy Manager, United Utilities



STREAM A

11.45 LoRa used by Activity: A nationwide, multiple business case, bidirectional IoT infrastructure

- A proven technological framework for smart metering in Electricity, Gas and Water
- Ideal technology for smart meters, isolated meters and grid fault management
- Low cost through bundling multiple business cases
- Low power consumption of devices enables battery life up to 15 years
- Enables Energy efficiency in Smart Homes using devices such as Smart Thermostats

Paul Cobos, Regional Sales Director, Activity

12.15 Engaging British Consumers With the Smart Meter Roll-Out

- How are smart meter users finding their new technology?
- Smart meters and behaviour change
- Future challenges engaging consumers with the national smart meter roll-out

Claire Maugham, Director of Policy and Communications, Smart Energy GB

12.40 Slot Reserved for Auto Grid

12.50 Lunch & Networking

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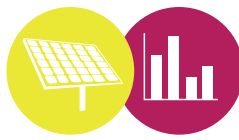
13.50 DCC Updates on Progress and Preparations for Go Live

- DCC progress so far
- Preparations for DCC go-live
- Focus on the customer – supporting DCC Users
- Beyond go-live

Joan Whitehead, Chief Operating Officer, Data and Communications Company (DCC)

14.20 Presentation Slot Reserved

Julien Groues, Senior Vice President, EMEA, C3 Energy



STREAM B

12.20 Big Data, Analytics and Storage

- Storage – What's your value proposition
- What role can Big Data and Analytics play in supporting storage systems globally
- The Perfect Trilogy – Optimising the value extracted from storage

Dr Matthew Rowe, Consultant for Operational Excellence, DNV GL Energy

12.50 Lunch & Networking

Sponsored By:



13.50 Adding Advanced Analytics to Smart Meters; A New Milestone in the Smart Meter Data Evolution

- Big data from the smart meters
- The role of smart meter data in the energy transition
- The business value of smart meter data for the different stakeholders
- How to exploit the this value; Some examples of the use of advanced analytics
- Outlook: Combination of smart meter data with other datasources

Frans Campfens, Senior Business Architect, Asset Management, Liander N.V

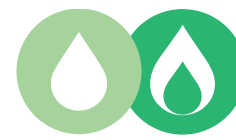
14.20 UK Power Networks' Smarter Network Storage project

Adriana Laguna-Estopier, Low Carbon Technologies Manager, Future Networks, UK Power Networks

14.50 Demand Side Storage

- Networks for the future – flexibility, smartness, security standards
- Generation of low carbon technologies

Goran Strbac, Professor of Electrical Energy Systems, Imperial College London



STREAM C

12.20 Using Integrated Scheduling and Real-Time Communications to Enhance the Customer Experience as Part of a Smart Meter Project

- Mobility and integration requirements
- The role of efficient and integrated scheduling in optimizing a smart meter programme
- How real-time communications can enhance the customer experience and cut customer dissatisfaction
- The risks and potential pitfalls

Marina Stedman, Marketing Director, EMEA, ClickSoftware

12.50 Lunch & Networking

Sponsored By:



13.50 Presentation Slot Reserved

Jeremy Heath, Network Manager, Sutton and East Surrey Water

14.20 Case Study of the Challenges of Implementing a Smart Water Meter Roll-Out

Martin Hall, Metering Technology Manager, Thames Water

14.50 Smart Water Meters: The European Commission Perspective

- ICT for Water Management: The EC strategy since 2012 related to smart water
- The ICT4WATER cluster
- Smart meters, smart water, smart society: The iWIDGET project
- Third generation projects: WIDEST
- The future: The road to standardisation and open issues (Legislation, Social Attitudes)

Dr Lydia Vamvakieridou-Lyroudia, Senior Research Fellow, University of Exeter



STREAM A

14.50 Reducing Customer Bills Through Technology Driven Business Model Innovation

- How Tempus Energy's demand side response product works with smart meters to significantly cut electricity costs
- Why innovations in smart technologies will improve the utility experience for domestic and non-domestic customers.
- Creating a more competitive market for electricity

Nick Butlin, Director, Operations & Technology, Tempus Energy

15.20 Networking & Refreshments

15.40 Panel Discussion: A Multi-Stakeholder Perspective of the UK Smart Meter Programme

- What are the key stakeholder requirements during and post-deployment?
- How will current and future technology meet with with consumer expectations?
- Updates on the IHD Vs alternative devices and regulatory concerns
- Forecasts on the future market

Moderator:

Ted Brown, Chairman, Energy Saving Trust

Panelists:

Rosie McGlynn, Head of Smart Energy and Networks Programme, Energy UK

Jeremy Yapp, Deputy Director, Smart Metering, BEAMA

Steve Roberts, Sales and Marketing Director, Holley Metering UK

Simon Hill, Vice President of Europe, Middle East and Africa (EMEA), Opower

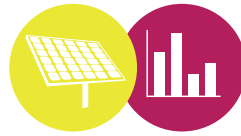
16.40 Interoperability Issues for Demand Response

- What are the Demand Response interfaces available in the Smart metering Infrastructure in European Member States?
- What are available standards and where are they used?
- What are gaps in standardisation that need to be solved?
- How to reach interoperability

Willem Strabbing, Managing Director, ESMIG

17.10 Chairman's Closing Remarks

18.00 Complimentary Drinks Reception, Followed by the European Smart Energy Awards Ceremony & Gala Dinner



STREAM B

15.20 Networking & Refreshments

15.40 Bringing Commercial Battery Energy Storage to Europe: Lessons from the Two Largest Battery Arrays in the EU

Dominique Laurent, Project Director for Energy Storage UK & Ireland, AES

16.10 Presentation Slot Reserved

Mark Thompson, Lead Technologist – Energy Systems, Innovate UK

16.40 Panel Discussion: Electricity Storage Applications Update

- Battery storage – limitations: capacity concerns, grid safety & security
- Domestic Solar Storage
- Hybrid Storage

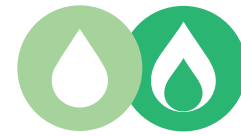
Dominique Laurent, Project Director for Energy Storage UK & Ireland, AES

Goran Strbac, Professor of Electrical Energy Systems, Imperial College London

Panelist TBA

17.10 Chairman's Closing Remarks

18.00 Complimentary Drinks Reception, Followed by the European Smart Energy Awards Ceremony & Gala Dinner



STREAM C

15.20 Networking & Refreshments

15.40 45 Million Smart Gas Meters for 2020

- European smart gas meter deployments
- Challenges facing utilities - customer engagement & privacy, creating value for all stakeholders
- Big Data from smart gas meters - implications for European gas regulators

16.40 Chairman's Closing Remarks

18.00 Complimentary Drinks Reception, Followed by the European Smart Energy Awards Ceremony & Gala Dinner



7th EUROPEAN SMART ENERGY *awards ceremony 2016*

January 28th, 7pm

Awards Evening Itinerary:

18:00 - Complimentary Drinks Reception & Networking

19:00 - Doors Open and Guests are Seated for the Gala Dinner

19:30 - 3 Course Menu to be Served

20:45 - Awards Ceremony Begins

22:15 - Awards Closing Remarks

22:30 - Close of Venue



7th European Smart Energy Awards 2016 Award Categories:

UTILITY AWARDS

1. Roll Out Innovation of the Year
2. Utility of the Year Award
3. Customer Engagement Award

SOLUTION PROVIDER AWARDS

1. Energy Monitoring Award
2. Smart Grid, Metering & Infrastructure Security Award
3. Energy Storage Innovation of the Year
4. Water Innovation of the Year
5. Smart Home Technology of the Year
6. Smart Grid Network & Communication Award
7. Service Provider Award
8. Meter Data Management Solution of the Year
9. New Innovation of the Year
10. Smart Metering Technology of the Year
11. Connected Home Innovation of the Year





SMART METERING
UK & EUROPE

STREAM A

09.15 Registration & Coffee

09.45 Welcome Address from Oliver Kinross and Chairman's Opening Plenary Session

Chairman: Ted Brown, Chairman, Energy Saving Trust

10.00 Panel Discussion: Maintaining a Successful Consumer Engagement Strategy During Smart Metering Projects

- Balancing regulation and consumer engagement
- Implementing a successful PR and social media campaign and handling press
- Building consumer relationships

Moderator:

Ted Brown, Chairman, Energy Saving Trust

Panelists:

Stephen Rowe, Head of Regulation and Compliance, Co-operative Energy

Sara-Jane Asquith, Director of Metering and Smart Transformation, SSE

Colin Griffiths, Smart Meters Policy Manager, Citizens Advice

Zoe McLeod, Director, OnTheRecord

Tom Handysides, Senior Policy Manager, Smarter Metering, Ofgem

Philip Lewis, Founder & CEO, VaasaETT

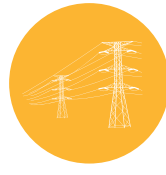
11.00 Protecting and Empowering Consumers in the Smart Meter Rollout

Tom Handysides, Senior Policy Manager, Smarter Metering, Ofgem

11.30 Networking & Coffee

12.00 Smart Metering, the Roadmap Towards Excellence

Speaker TBC, Enel



SMART GRIDS - OPTIMISATION,
INTEGRATION & COMMUNICATION

STREAM B

09.15 Registration & Coffee

09.45 Welcome Address from Oliver Kinross and Chairman's Opening Plenary Session

Chairman: Philip Lewis, Founder & CEO, VaasaETT

10.00 Responding to and Predicting Uncertainty

- Required innovation for effective forecasting
- Delivering flexibility
- The weather/demand issue

Jessica Stromback, Chairman, Smart Energy Demand Coalition (SEDC)

10.30 Panel Discussion: Towards a Smarter Future Grid - Key Challenges, Requirements & Grid Potential

- Resilience
- Security
- Flexibility

Moderator:

Thomas Mikkelsen, Director of Consulting, VaasaETT

Panelists:

Klaus Kursawe, Director Research and Development, ENCS

Paulo Libano Monteiro, Member, EDSO for Smart Grids & Director of Technology and Innovation, EDP Distribuição

Dr. Werner Friedl, Energy Department - Electric Energy Systems, AIT Austrian Institute of Technology

Jessica Stromback, Chairman, Smart Energy Demand Coalition (SEDC)

11.30 Networking & Coffee

12.00 Enel's Vision on Smart Grids

Antonio Buondonno, Head Of Network Technology and Engineering Sales – Business Development, Global Infrastructure and Networks Division, Enel SpA



SMART CITIES, IoT (Internet of Things) & THE CONNECTED HOME

STREAM C

09.15 Registration & Coffee

09.45 Welcome Address from Oliver Kinross and Chairman's Opening Plenary Session

10.00 Panel Discussion: European Smart Cities, the Internet of Things (IoT) & the Connected Home

- European smart cities – recent key developments
- The Evolution of the IoT
- The connected home - data flow & analysis and implications for utilities

Moderator:

Dr Igor Calzada MBA, Lecturer, Research Fellow and Policy Adviser at the University of Oxford, Future of Cities Programme

Panelists:

Johan Ander, Program Manager, Fortum

Simon Harrison, Head of Technology, UK Innovation, RWE npower

Leonardo Benitez, Utilities Director, Indra

Jonny Voon, Lead Technologist - Internet Technology, Innovate UK

11.00 Beyond the Connected Thermostat, New Revenue Models for Energy Providers in Europe

- The importance of design in delivering deep customer engagement and behavioral change
- The benefits of connected technologies and services to Energy companies
- Beyond the thermostat, opportunities to grow customer engagement outside of energy

Andy Baynes, Director of Energy Business, Nest Labs

11.30 Networking & Coffee



STREAM A

12.30 Imagining Tomorrow's Connected World

- What are the challenges and implications of smart metering for consumer engagement, the smart grid, and the connected home?

Jeremy Yapp, Deputy Director, Smart Metering, BEAMA

13.00 Lunch & Networking

14.00 Case Study: Smart Metering - Experiences made in Austria

- The data and communication experience
- National regulations
- Improvement of valuation of flexibility in Austria
- Suggestions for optimum (future) market design

Leo Kammerdiener, Smart Meter Expert, E-Control

14.30 Panel Discussion: Utilities and the Adaptation of Business Models for Future Delivery

- Realising the added value of smart meters - a data source, process optimiser, the missing link for business models
- Challenges in building flexibility into business models
- Trends for future market design in conjunction with EU regulations

Moderator:

Ted Brown, Chairman, Energy Saving Trust

Panelists:

Neal Coady, Head of Innovation, British Gas

Rosie McGlynn, Head of Smart Energy and Networks Programme, Energy UK

Leo Kammerdiener, Smart Meter Expert, E-Control

15.30 Chairman's Closing Remarks

15.40 Close of Conference



STREAM B

12.30 Opening up to Choice for Customers: Dynamic Pricing and Self-Consumption

Susana Bañares Hernández, Head of Demand Side Management, Red Eléctrica de España

13.00 Lunch & Networking

14.00 Smart Grids Renewables Integration: Key Developments & Solutions

- The development and outlook of solar
- Where solar has come from
- Whats next for solar
- The key ingredients of a stable power system
- Smart self-consumption & grid support of solar PV based on smart technologies

James Watson, Chief Executive, SolarPower Europe

14.30 Demand Side Flexibility in the EU Power Markets (Wholesale and Retail)

- Challenges for active consumer participation
- Pricing and costs structures in Europe
- Linking wholesale and retail markets
- Integration of new market players

Pavla Mandatova, Advisor - Retail Customers Unit, EURELECTRIC

15.00 The Rising Need for an Integrated Flexibility Market

- How flexible energy use impacts the system
- What flexibility market processes look like – and why we need a common standard
- The flexibility value chain
- How USEF enables the trading of flexible energy use and enables the active market participation of all involved

Frits Verheij, Executive Board Member, USEF

15.30 Chairman's Closing Remarks

15.40 Close of Conference



STREAM C

12.00 Utilities & the Internet of Things: the ROI Concern

- Building closer relationships with the consumer – cost, convenience, trust
- Cost/benefit considerations for utilities
- What is the potential for ensuring ROI?

Neil Pennington, Director of Innovation, RWE npower

12.30 Creating a Market for Smart City Solutions

- Smart energy efficient renovation where active tenants live in passive houses
- Smart city infrastructure where systems interact in creating sustainable development
- Smart mobility where mobility, not cars, is in focus

Gustaf Landahl, Head of Department, GrowSmarter Coordinator, City of Stockholm

13.00 Lunch & Networking

14.00 Case Study of a Connected Home

- Why the digitalisation of utilities?
- Demand Response energy solutions - mapping energy consumption, sustainability and energy pricing
- Realising the benefits of a connected home - finding the value for the consumer and the utility
- Building a successful business strategy for a connected home

Johan Ander, Program Manager, Fortum

14.30 Comparing EU Cities on Smart City-Regional Governance

Dr Igor Calzada MBA, Lecturer, Research Fellow and Policy Adviser at the University of Oxford, Future of Cities Programme

15.00 Presentation Slot Reserved

15.30 Chairman's Closing Remarks

15.40 Close of Conference



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