

**Hamburg,  
Germany  
September  
16-17, 2013**

## **European Power Grid and Storage Development 2013** Conference

Electricity markets across Europe are in the midst of extreme change. The share of intermittent wind and solar power in the European generation mix is rising year-on-year. Integrating this exponential rise in fluctuating output into Europe's central plant and grid-designed power system is becoming increasingly difficult to manage and costly to implement.

Smoothing peaks and troughs in output can be achieved via a variety of means on the demand side, but these involve some form of consumption compromise. Energy storage meanwhile offers the prospect of green energy on tap as and when it is needed. Achieving widespread, reliable and affordable electrical storage is seen by many as the 'Holy Grail' for power systems – as well as evolving clean transport solutions.

***Making the  
move to green  
power work***

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**Beacon  
POWER**

## ***Making the move to green power work***

Platts are pleased to announce its **European Power Grid and Storage Development 2013** conference will take place in **Hamburg** this autumn.

Platts **European Power Grid and Storage Development 2013** conference will discuss the challenges facing grid stability and security of supply, renewables integration, intermittency and volatility. It will seek to examine the prospects for the full spectrum of storage solutions and technologies whether mature like pumped storage or emerging like power-to-gas.

### **Key topics discussed**

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- **The situation:** renewable growth; stressed grids
- **The challenge:** intermittency, volatility, grid flexibility
- **The solution:** outlook for storage and smart technologies in Europe

### **Audience**

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- European utilities
- International technology companies / energy storage solutions providers
- Transmission and distribution system operators
- Wind energy operators
- Battery Manufacturers
- PV and solar cells manufacturers
- Renewable energy Integrators
- Commercial and Industrial end users
- Investors and venture capitalists
- Regulator

### **Networking**

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Platts conferences understand the need for effective and valuable networking time, and our **European Power Grid and Storage Development 2013** event will be no different. We have built into the two days a number of dedicated social functions designed to increase participant interaction, including sponsored breakfast briefings and evening drinks reception.

I hope to see you in Hamburg.  
Best regards,

A handwritten signature in black ink, appearing to read "Daniel Lawson". The signature is fluid and cursive, written in a professional style.

**Daniel Lawson**

Senior Producer - *Platts European Electricity Storage and Grid Management 2013*

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# European Power Grid and Storage Development 2013

September 16-17, 2013 • Hamburg, Germany

## CONFIRMED SPEAKERS INCLUDE:

- *Annegret Groebel, Head of International Relations, Federal Network Agency, Germany (BNetzA); Vice President, European Energy Regulators (CEER)*
- *Donald R. Sadoway, John F. Elliott Professor of Materials Chemistry Department of Materials Science and Engineering, Massachusetts Institute of Technology*
- *Hubert Lemmens, Head of Innovation and Knowledge Management, Elia*
- *Dr. Graham Cooley, Chief Executive Officer, ITM Power*
- *Dr. Oliver Weinmann, Managing Director, Vattenfall Europe Innovation*
- *Antonella Battaglini, Executive Director, Renewables-Grid-Initiative*
- *Bernard Delpech, Chief Operating officer, Group Corporate R&D, EDF; President, EASE – European Association for Storage of Energy*
- *Bernd Calaminus, Head of Conventional Generation & Hydro Power, EnBW*
- *Dr. Klaus. Peter Röttgen, Head of Innovation Center Energy Storage, Technology & Innovation, E.ON; Vice-President, EASE – European Association for Storage of Energy*
- *Pavla Mandatova, Advisor for Networks, Eurelectric*
- *Anthony Price, Director, Electricity Storage Network*
- *Klaus Kaiser, Partner, Practice Lead Impact Assessment and Planning – Central Europe, ERM*
- *Phil Giudice, Chief Executive Officer, Ambri*
- *Filip Smeets, General Manager, Hydrogenics Europe*
- *Erich Becker, Partner, Zouk Capital LLP*
- *Karima Boukir, Head of Energy Management & Future Grids, EDF Energy*
- *Barry Brits, President and Chief Executive Officer, Beacon Power, LLC*
- *Dr. Richard Brody, Vice President, Business Development, SustainX*
- *Gareth Brett, Chief Executive officer, Highview Power*
- *Dr. Peter Hoffmann, Head of System Operations, TenneT*
- *Jean Verseille, Director, European Affairs and Deputy Manager, Economics, Markets, Innovation, RTE*
- *Marco Foresti, Advisor, ENTSO-E*
- *Frauke Thies, Policy Director, European Photovoltaic Industry Association (EPIA)*
- *Dr. Cornelius Pieper, Principal, Boston Consulting Group*
- *Catharina Sikow-Magny, Head of Unit, Internal Market I: Networks & Regional Initiatives, European Commission*
- *Ross McCracken, Managing Editor, Energy Economist, Platts*

# European Power Grid and Storage Development 2013

September 16-17, 2013 • Hamburg, Germany

## DAY ONE: MONDAY SEPTEMBER 16, 2013

08:00 *Registration and continental breakfast*

08:50 *Chairman's welcoming remarks*

*Ross McCracken, Managing Editor, Energy Economist, Platts*

09:00 **Opening address**

### **Making the move to green power work**

- How do we integrate all this renewable power into Europe's ageing infrastructure?
- Will base-load capacity trigger or slow down renewables deployment?
- How should EU-renewables targets be developed until 2020 and beyond?

*Annegret Groebel, Head of International Relations, Federal Network Agency, Germany (BNetzA); Vice President, European Energy Regulators (CEER)*

09:20 **Keynote address**

### **Renewable growth and infrastructure expansion: understanding the role and importance of public support**

*Antonella Battaglini, Executive Director, Renewables-Grid-Initiative*

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## The situation: renewable growth; stressed grids

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09:40 **European Commission update: managing the transition to a low carbon economy**

- Achieving the Internal Energy Market by 2014 – progress report
- EU 2020/2050 energy roadmaps
- Developing the policy framework post-2020
- How can infrastructure development and European policy coordination be optimized to incentivise cost efficient and sustainable energy security?

*Catharina Sikow-Magny, Head of Unit, Internal Market I: Networks & Regional Initiatives, European Commission*

10:00 **Renewables development in Europe: will growth continue?**

- Is the European renewables sector approaching maturity?
- Integrating variable renewable energy sources into the system
- Is the market framework fit for renewables?

*Frauke Thies, Policy Director, European Photovoltaic Industry Association (EPIA)*

10:20 **Case-study**

**Surmounting the renewables challenge – a stressed grid and stress with public acceptability?**

- The importance of careful (environmentally-led) route selection
- How to engage and communicate with stakeholders
- Assessment and mitigation of impacts
- Case studies and experience from Germany

*Klaus Kaiser, Partner, Practice Lead Impact Assessment and Planning – Central Europe, ERM*

10:40 *Networking and refreshment break – available to sponsor*

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## The challenge: intermittency, volatility, inflexibility

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11:10 **The regulatory issues affecting the Integration of renewable energy sources:**

- From theory to practice: network Codes, TYNDP and implementation
- Today's electricity market design: shortcomings and possible solutions
- Long term perspectives: ENTSO-E views

*Marco Foresti, Advisor, European Network of Transmission System Operators for Electricity (ENTSO-E)*

11:30 **Intermittency, flexibility and back up – what are the options?**

- How is intermittency impacting European energy markets?
- How do we manage the increasing amounts of intermittent production in Europe effectively?
- Competition in backup intermittency systems – storage or network build out to win?

*Karima Boukir, Head of Energy Management & Future Grids, EDF Energy*

11:50 **Integrating renewables into distribution networks**

- What are the challenges for DSOs?
- Key tools: active distribution system management and flexibility
- What regulation is right?

*Pavla Mandatova, Advisor for Networks, Eurelectric*

12:10 *Networking lunch – available to sponsor*

**Managing grid volatility and renewable power integration – the enhanced responsibility for Europe’s TSOs**

- Market coupling and Intraday-markets - progress towards enduring pan-European solutions
- The integration of renewables - changing the nature of energy supply
- Grid extension for markets and renewables - What are the challenges for a TSO?
- Managing grid volatility in the current climate

13:20 ***A view from Elia***

*Hubert Lemmens, Head of Innovation and Knowledge Management, Elia*

13:40 ***A view from TenneT***

*Dr. Peter Hoffmann, Head of System Operations, TenneT*

14:00 ***A view from RTE***

*Jean Verseille, Director, European Affairs and Deputy Manager, Economics, Markets, Innovation, RTE*

14:20 **Group Q&A and Panel discussion**

**Implementing a renewables based energy system**

**– Challenges faced and opportunities available**

- *Hubert Lemmens, Head of Innovation and Knowledge Management, Elia*
- *Karima Boukir, Head of Energy Management & Future Grids, EDF Energy*
- *Jean Verseille, Director, European Affairs and Deputy Manager, Economics, Markets, Innovation, RTE*
- *Dr. Peter Hoffmann, Head of System Operations, TenneT*

*Moderated by:*

- *Antonella Battaglini, Executive Director, Renewables-Grid-Initiative*

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## **The solution: electricity storage development in Europe**

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14:50 **The potential role of massive storage in future European energy systems**

- Insight into the key barriers preventing commercialization of electrical in Europe
- Understanding the benefits of large scale electrical storage
- Current investment environment and appetite
- Are current policy frameworks conducive for the rapid deployment of electrical storage?
- What technologies and demand side actions that could disrupt storage solutions developments?
- Understanding the relationship between renewables, energy storage and the smart grid

*Bernard Delpech, Chief Operating officer, Group Corporate R&D, EDF; President, EASE – European Association for Storage of Energy*

15:10 **A view from Vattenfall**

*Dr. Oliver Weinmann, Managing Director, Vattenfall Europe Innovation*

15:30 *Networking and refreshment break – available to sponsor*

16:00 **A view from EnBW**

*Bernd Calaminus, Head of Conventional Generation & Hydro Power, EnBW*

16:20 **A view from E.ON**

*Dr. Klaus. Peter Röttgen, Head of Innovation Center Energy Storage, Technology & Innovation, E.ON*

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## Commercializing the technologies: revenue streams and business models in the current climate

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16:40 **Is there a business case for storage?**

- Electricity price relationships are showing distinct, new trends
- Operational flexibility is being lost and needs to be restored
- Storage may be the rebalancing mechanism required to make electricity generation work both as a system and as a market

*Ross McCracken, Managing Editor, Energy Economist, Platts*

17:00 **From pilots to markets – reflections on the commercializing market for energy storage**

- What to expect – demand forecast for storage solutions
- Storage growth drivers – why it starts making sense
- Great opportunity – but for whom?

*Dr. Cornelius Pieper, Principal, Boston Consulting Group*

17:20 **What are investors looking for?**

*Erich Becker, Partner, Zouk Capital LLP*

17:40 **Panel discussion**

**Achieving widespread, reliable and affordable electrical storage in Europe – what needs to be put in place?**

- *Bernard Delpech, COO Group Corporate R&D, EDF*
- *Bernd Calaminus, Head of Conventional Generation & Hydro Power, EnBW*
- *Dr. Cornelius Pieper, Principal, Boston Consulting Group*
- *Dr. Klaus. Peter Röttgen, Head of Innovation Center Energy Storage, Technology & Innovation, E.ON*
- *Dr. Oliver Weinmann, Managing Director, Vattenfall Europe Innovation*
- *Erich Becker, Partner, Zouk Capital LLP*

**Moderated by:** *Anthony Price, Director, Electricity Storage Network*

18:10 *Networking reception – available to sponsor*

## DAY TWO: TUESDAY SEPTEMBER 17, 2013

08:15 *Registration and continental breakfast*

08:50 *Chairman's welcoming remarks and review of day one*

*Anthony Price, Director, Electricity Storage Network*

09:00 **Keynote address**

**A review of energy storage technologies**

*Dr. Graham Cooley, Chief Executive Officer, ITM Power*

09:25 **Special address**

**Transforming the grid for the 21<sup>st</sup> Century**

*Donald R. Sadoway, John F. Elliott Professor of Materials Chemistry Department of Materials Science and Engineering, Massachusetts Institute of Technology*

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## Storage technology showcase: *emerging technologies gaining momentum and mature technologies gaining prominence*

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- A series of sessions designed to showcase the environmental, economic, and reliability benefits of both emerging and more mature storage technologies. Will they ever be viable?

09:50 **Commercializing disruptive technology – the Ambri solution**

*Phil Giudice, Chief Executive Officer, Ambri*

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10:15 **Power to Gas and Wind-gas developments in Europe**

*Filip Smeets, General Manager, Hydrogenics Europe*

10:40 *Networking and refreshment break – available to sponsor*

11:10 **Isothermal CAES: A real-world, site-flexible energy storage system for renewables integration and T&D substitution**

- ICAES is a fuel-free solution that supports renewables integration by firming supply, with the added advantage of site-anywhere flexibility
- ICAES can extend the lifetime, enhance utilization, and substitute for new T&D infrastructure by providing scalable storage when and where needed
- Over its 20-year operational life, ICAES has a disruptively low levelized cost of energy (LCOE)
- The first MW-scale system is being commissioned and a project update will be presented

*Dr. Richard Brody, Vice President, Business Development, SustainX*

11:35 **Utility-scale flywheel capabilities and real-world grid performance**

- Performance characteristics, operational strengths and key applications
- Two-year operational results of Beacon Power's 20 MW / 5 MWh frequency regulation facility
- Optimizing the unique capabilities of advanced flywheels to maximize economic benefits to a power grid

*Barry Brits, President and Chief Executive Officer, Beacon Power, LLC*

12:00 **Cryogenic developments**

*Gareth Brett, Chief Executive Officer, Highview Power*

12:25 *End of conference*

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## **To Register**

- 1) Visit: [www.platts.com/gridandstoarge](http://www.platts.com/gridandstoarge)
- 2) Email: [Conf\\_registrations@platts.com](mailto:Conf_registrations@platts.com)
- 3) Call: +44(0)207 176 6300
- 4) Fax: +44(0)207 176 8512

## **To sponsor:**

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