



# Energy Storage

29th February-1st March Luxembourg City, Luxembourg

Evaluating the Techno-Economic Feasibility  
of Energy Storage Systems

# 2012

## Key Topics:

Energy Storage Policy & Regulatory Update

Energy Storage Economics & Investment Strategies

Key Established & Emerging Markets

Energy Storage within Utility Strategy

Energy Storage within TSO Strategy

Storage Requirements in Smart Grids

Considerations of EVs as an Energy Storage Device

Renewables Case Studies

Emerging Small & Medium Scale Technologies

Large Scale Technological Developments

For Registration Contact:

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Event Sponsor:



**SGL GROUP**  
THE CARBON COMPANY

For information on available sponsorship &  
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29th February-1st March Luxembourg City, Luxembourg

## Evaluating the Techno-Economic Feasibility of Energy Storage Systems



ACI's Energy Storage 2012 will once again bring together senior executives from power generation, TSOs, DNOs, utility companies as well as technology providers and

academia to evaluate the economic and commercial feasibility of energy storage within the conventional & renewable power industry.

The event will include case study examples of large scale renewables integration projects, emerging small & medium scale technologies as well as large scale technological developments in Energy Storage.

The key areas of discussion for the event will be:

- Energy Storage Policy & Regulatory Update
- Energy Storage Economics & Investment Strategies
- Key Established & Emerging Markets
- Energy Storage within Utility Strategy
- Energy Storage within TSO Strategy
- Storage Requirements in Smart Grids
- Considerations of EVs as an Energy Storage Device
- Renewables Case Studies
- Emerging Small & Medium Scale Technologies
- Large Scale Technological Developments

The two day conference will comprise a series of informative formal presentations from senior industry executives and experts, panel discussions encouraging information exchange between you and your peers and excellent networking opportunities allowing you to maximise the productivity of your two days at the event.



### Who will attend?

Leading power generating companies, TSOs, DNOs and utilities including: managers and directors of energy storage, power generation, R&D and new technologies, renewable strategy, innovations and strategic project managers as well as business development executives from technical service providers, consultants, regulators and academia.

### COMMERCIAL EXPOSURE OPPORTUNITIES



Showcase your storage technologies to the industry, with opportunities to demonstrate the capabilities of your latest products and services.

A wide range of opportunities are available, all of which can be finely tuned to match your exact requirements.

For information on available sponsorship and commercial opportunities contact:

Maureen Ignacio,  
+44 (0)20 7981 2508  
[mignacio@acieu.net](mailto:mignacio@acieu.net)

### Speaking opportunities:



If you would like to be considered as a speaker for the event with a 30-45 minute presentation, please submit an abstract for consideration to:

John Boateng,  
Conference Manager, ACI  
+44 (0)20 7981 2508  
[jboateng@acieu.net](mailto:jboateng@acieu.net)



### EXCLUSIVE SITE VISIT

Tuesday 28<sup>th</sup> February 2012

#### Vianden Pumped Storage Plant – Unit 11

During the afternoon of Tuesday 28th February 2012 a limited number of conference attendees will have the opportunity to attend an exclusive site visit

\* There is no extra charge to attend the site visit.  
Please register your attendance for the site visit when booking for the conference\*

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## Evaluating the Techno-Economic Feasibility of Energy Storage Systems

### DAY ONE: Wednesday 29<sup>th</sup> February 2012

08.00 Registration and Coffee

#### 08.45 CHAIRMAN'S OPENING ADDRESS

Jillis Raadschelders, Vice President Energy Storage, KEMA

#### 09.00: CONFERENCE PRESENTATION:

##### Energy Storage Policy & Regulatory Update

- Discuss EU policy affecting energy storage: a focus on EU 2020 targets and ECF Roadmap 2050
- Clarification on legislations and policies in the renewables sector – to create a sustainable market for energy storage growth in the short, medium & long term.

Pierre Bernard, Head of Business Development, Elia Group

#### 09.45: SESSION ONE:

##### Energy Storage Economics & Investment Strategies

- Examine business opportunities for venture capitalists in energy storage, focusing on ROIs
- Assess different investment strategies and business cases
- How to secure investment to further develop energy storage applications – collaboration from private & public investors

David Anthony, Managing Director, 21 Ventures LLC

11.00 Morning Refreshments

#### 11.30: SESSION TWO:

##### Key Established & Emerging Markets

- An update & overview of energy storage opportunities and challenges around the globe.
- A focus on established markets of the US, EU & Asia as well as emerging markets in BRIC countries
- Review of other regions' policies in comparison to those in the EU?

Anthony Price, Director, Swanbarton

Anissa Dehanna, Research Analyst, Pike Research

13.20 Lunch

#### 14.20: CONFERENCE PRESENTATION:

##### Energy Storage within Utility Strategy

- Hear from a utility on their strategies for integrating different storage applications into their portfolio
- What are their main goals & drivers?
- A focus on renewables targets & profitability
- Latest challenges & opportunities

Erik Hauptmeier, Corporate Research & Development, Technologies – Power Networks and Storage, RWE AG

#### 15.05: CONFERENCE PRESENTATION:

##### Energy Storage within TSO Strategy

- Hear from a TSO on their strategies for utilising different storage applications in their transmission upgrades
- What are their main goals & drivers?
- Latest challenges & opportunities

Dr. Terje Gjengedal, R&D Director, Statnett

15.50 Afternoon Refreshments

#### 16.20: CONFERENCE PRESENTATION:

##### Storage Requirements in Smart Grids

- Latest developments & challenges of integrating energy storage into smart grids
- Discuss the necessary improvements to achieve smart transmission and distribution

#### 17.05: CONFERENCE PRESENTATION:

##### Considerations of EVs as an Energy Storage Device

- Discuss the role of EVs as a compatible storage component in smart grid
- Latest challenges & opportunities

#### 17.50 CHAIRMAN'S SUMMATION

Jillis Raadschelders, Vice President Energy Storage, KEMA

18.00 Close of Day One

### DAY TWO: Thursday 1<sup>st</sup> March 2012

08.30 Registration and Coffee

#### 09.00 CHAIRMAN'S OPENING ADDRESS

Jillis Raadschelders, Vice President Energy Storage, KEMA

#### 09.15: SESSION THREE:

##### Renewables Case Studies

- Hear two case studies of large scale renewables integration projects
  - A wind & PV project undertaken in partnership between energy storage companies & utilities
- A focus on technologies & applications which will improve intermittency issues
- Is energy storage a potential solution to high penetration of RES penetration?

Dr. Sergio Olivero, Head of SiTI's Security & Safety Research Area, Istituto Superiore sui Sistemi Territoriali per l'Innovazione (SiTI)

Henrik Vikelgaard, Research Engineer, Vestas Technology R&D

10.30 Morning Refreshments

#### 11.00: SESSION FOUR:

##### Emerging Small & Medium Scale Technologies

- In-depth review of emerging small & medium scale energy storage applications
- Installation costs, capacity, lifecycle, maintenance and commercial viability
- A techno-economic focus:
  1. Batteries (Lead, Flow VRB or ZBB, NaS or other batteries)
  2. Flywheels
  3. SMES

Thomas Gruenberger, Project Manager BD, SGL Carbon

12.50 Lunch

#### 14.00: SESSION FIVE:

##### Large Scale Technological Developments

- Latest developments and challenges in large scale energy storage systems
- Results and lessons learned from storage projects around the world, looking at their OPEX & CAPEX
- A techno-economic focus:
  1. CAES
  2. Pumped Hydro
  3. Ice/Heat Storage

Otto Pirker, Vice-Chair Working Group Hydro, EURELECTRIC, Verbund-AHP

#### 15.50 CHAIRMAN'S SUMMATION

Jillis Raadschelders, Vice President Energy Storage, KEMA

16.00 Close of Conference & Afternoon Refreshments

GENERAL INFORMATION & REGISTRATION  
Call Alexia Michael on +44 (0)20 7981 2502  
or  
Email [amichael@acieu.net](mailto:amichael@acieu.net)



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## 5 EASY WAYS TO REGISTER

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Web: <http://www.acius.net>  
Mail: ACI Europe, 5/13 Great Suffolk Street, London, SE1 0NS

## TERMS AND CONDITIONS

### How to Register

Registrations must be received in writing or electronically at our secure web site. Please complete and mail or fax a copy of the registration form with a cheque or credit card number. Fee includes program materials, networking luncheon and refreshments.

### Payment

Payment must be received within five business days of returning the signed contract. After receiving payment a VAT receipt will be issued. If you do not receive a letter outlining details two weeks prior to the event, please contact the Conference Coordinator at ACI Europe Ltd.

**Discounts are available for multiple/group bookings. Please call +44 20 7981 2502 for more information**

### Cancellations

Substitutions are welcome up to 24 hours prior to the event. Cancellations must be received in writing no less than 3 weeks prior to the start of the conference; a full credit voucher towards a future ACI conference will be issued. Any cancellation received less than 3 weeks prior to the start of the event shall be deemed to be a breach of this contract by client, and accordingly, no credits will be given. Cancellations must be received in writing by mail or fax three weeks before the conference. Thereafter the full conference fee is payable. If for any reason ACI Europe Ltd decides to amend, cancel or postpone this conference, the conference fee will not be refunded. Furthermore, ACI Europe Ltd will not be responsible for covering airfare, hotel or other costs incurred by registrants. In the event that ACI Europe Ltd cancel or postpone the event, ACI Europe Ltd reserves the right to transfer this booking to another conference to be held in the following twelve months, or to provide a credit of an equivalent amount to another conference within the following twelve months. The construction, validity and performance of this agreement shall be governed in all respects by the laws of England to the exclusive jurisdiction of whose courts the Parties hereby agree to submit.

### About ACI

ACI, a UK owned company, have been running successful conferences for the last 15 years in the USA. Headquartered in Chicago with offices all around the States, they run forums in varied fields and are market leaders in healthcare business conferences. Opening their European head office at the end of 2005, they have expanded rapidly and are launching a series of events covering the maritime, energy, oil and gas industries.

**Venue: Luxembourg City, Luxembourg**  
TBC

The cost of accommodation is not included in the event fee. Preferential rates will be arranged with or near the event venue, and all confirmed delegates will be given details of how to book accommodation at this rate in due course.

### Prices and Payment Information

Conference (Includes Documentation Packet)  
Documentation Packet

**29<sup>th</sup> February – 1<sup>st</sup> March 2012**  
Copies of all conference proceedings

**£1395 + VAT**  
£395 + £25 P&P

### Documentation Packet Available

You can purchase the **Energy Storage 2012** papers at just £395. Simply tick the box on the booking form, send it with payment and your copy will be on its way to you after the meeting. This important manual will be a source of invaluable reference for the future.

### Discounted Registrations

Members and customers of all supporting organisations are entitled to a discount off their conference package.

For more information please call +44 20 7981 2502.