



23 - 24 JANUARY 2019 / BRUSSELS, BELGIUM

ENERGY STORAGE 2019

*Comprehensive Market Analysis To Establish The
Necessary Design Changes To The Existing Model*

KEY TOPICS

- Storage of energy guiding the convergence of the energy sector
- Stakeholders' perspective on adoption and integration of energy storage facilities
- Analysing the technical developments and performance of energy storage solutions
- System operational challenges and optimizing supply
- Energy storage addressing CO2 emission levels
- Policy and regulatory changes needed
- Financial considerations and monetizing energy storage
- Accelerating the development of energy storage facilities

DUAL SITE VISIT



During the afternoon of Tuesday 22nd January 2019 a limited number of conference participants will have the opportunity to attend an exclusive dual site visit to the Laborelec Battery Lab in Linkebeek followed by a visit to the Drogenbos Battery Park . There is no extra charge to join the site visits, although places are limited and allocated to conference delegates on first come first served basis.



EVENT PARTNERS:



HYDROGENICS
SHIFT POWER | ENERGIZE YOUR WORLD

Sponsorship and Exhibition Opportunities:

Krisztina Maria Szabo +44(0)2031410603 Email: kszabo@acieu.net



Comprehensive Market Analysis To Establish The Necessary Design Changes To The Existing Model

This 9th edition of ACI's Energy Storage Conference will bring together the senior representatives of the different stakeholders involved in the energy storage sector from utility providers, power generators, technology developers, energy storage service providers and policy regulators, to discuss the latest challenges and developments making an impact on the industry.

You are kindly invited to the first European Energy Storage Conference of the year to discover the key topics and updates from the latest developments in essential areas of the energy storage market.

Confirmed Topics

- Storage of energy guiding the convergence of the energy sector
- Stakeholders' perspective on adoption and integration of energy storage facilities
- Analysing the technical developments and performance of energy storage solutions
- System operational challenges and optimizing supply
- Energy storage addressing CO2 emission levels
- Storage facilitating the transition of production from fossil fuels to renewable sources
- Policy and regulatory changes needed
- Financial considerations and monetizing energy storage
- Case studies of energy storage business models
- Current market model and necessary changes
- Accelerating the development of energy storage facilities

Who Should Attend

Senior representatives from national utility companies, technology developers, energy storage service providers, policy regulators and industry analysts, energy investors, research organisations and consultants in energy storage, power generators, distribution network and service operator companies.

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:

Lauriane Pardoux
+44 203 141 0632
lpardoux@acieu.net

Mikhail Kryukov
+44 203 141 0649
mkryukov@acieu.net

Why You Should Attend:

- Hear from high profile speakers sharing their knowledge and expertise on overcoming the current challenges to managing energy storage projects and services
- Network with industry leaders from across the entire value chain to maximise the opportunities arising in the energy production and supply market

Dual Site Visit Details

Drogenbos Batter Park and Laborelec Battery Lab

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Opportunities To Meet Your Target Audience



For information on available sponsorship and commercial opportunities, please contact **Krisztina Maria Szabo**:
Tel: +44 (0)20 3141 0603 or
Email: kszabo@acieu.net

Registration Is Simple

If you would like to register for this event or wish to find out more information, you can contact **Mohammad Ahsan** by using any of the following methods:

 +44 20 3141 0606

 mahsan@acieu.net

 <http://www.acieu.net>

 Postal Address:
ACI Europe, 10 Gough Square, London, EC4A 3DE

DAY 1

Wednesday 23rd January 2019

08:00 **REGISTRATION & COFFEE**

09:00 **CHAIRMAN'S OPENING REMARKS**

09:15 **CONFERENCE PRESENTATION**
GenComm - GENerating energy secure COMMunities



Paul McCormack
Innovation Manager
Belfast Metropolitan College

10:00 **CONFERENCE PRESENTATION**
Stakeholders' perspective on adoption and integration of energy storage

- Energy storage addressing the current challenges of grid operators
- Integrating producers of energy from renewable sources in the distribution networks
- Upgrading the existing facilities and identifying the optimum technological solutions

Jørgen S. Christensen
Research and Technology Director
Dansk Energi

10:45 **MORNING REFRESHMENTS**

SESSION ONE
Analysing the technical developments and performance of energy storage

11:15 **The role of Hydrogen for Energy storage in Europe**

- Energy Storage in European Policy Framework
- Overview of concrete projects
- Future outlook for Energy Storage



Bart Biebuyck
Executive Director
Fuel Cells and Hydrogen Joint Undertaking (FCH JU)

11:35 **Molten sodium ceramic batteries, a proven alternative to lithium-ion**

- One technology, two chemistries
- How different is it from lithium-ion technology?
- Commercially available since 2002
- How are customers using batteries?
- Few examples among more than 200 operational systems



Gauthier Dupont
Director Power Business Batteries
NGK Europe GmbH

11:55

- **Health & safety issues of stationary Lithium-ion batteries**
- Technical requirements for Design and Selection Considerations
- Standardization
- Regulation

Jelle Smekens
Batteries Project Engineer
Engies Batteries Lab

12:15

- **Hydrogen technologies, ready for the mass energy storage market**
- Update on electrolysis and fuel cell technologies
- When does hydrogen make sense for energy storage applications ?
- Getting to the mass market for energy storage



Denis Thomas
EU Regulatory Affairs & Business Development Renewable Hydrogen
Hydrogenics

12:35

Panel Q&A

13:05

LUNCH

SESSION TWO
System operational challenges and optimizing supply

14:05

- **Grid storage: 'field experience using 2nd life batteries'**
- How can storage address the energy transition challenges?
- The 2nd life battery business case
- Field experience



Marcel Didden
Energy Solutions Architect
Engie

14:35

- **Hydropower – the old and new provider for flexibility**
- Need for flexibility and storage
- Role of hydropower in the past – today and in the future
- Different types of hydropower plants and their special features
- New challenges and framework conditions for hydropower



Otto Pirker
Senior Advisor
Verbund AG



Martin Schönberg
Advisor for Hydropower
eurelectric

15:05

Panel Q&A

15:20

CONFERENCE PRESENTATION

Needed requirements for a level playing field to support e-storage - from the view of hydropower

- Driving the energy transition and reducing CO2 emissions through more flexibility provided by storage of energy from RES
- A level playing field is required to force this key issue
- Different fees for system services in different national markets
- Policies around e-storage need to be improved and clarified



Dipl. Ing. Peter Matt
Head of Engineering Services
Vorarlberger Illwerke AG



Dipl. Ing. Gottfried Gökler
Head of Civil Engineering
Vorarlberger Illwerke AG

16:05

AFTERNOON REFRESHMENTS

16:35

CONFERENCE PRESENTATION

Energy storage addressing CO2 emission levels

- Without storage and flexibility, not reaching the Paris climate protection goals
- Decarbonisation impacts on the energy sector in general
- Decarbonisation and storage solutions from the customer's point of view
- What storage solutions mean for network usage



Dr Holger Wiechmann
Senior Manager
EnBW Energie Baden-Württemberg AG

Sponsorship & Exhibition Opportunities:

ACI has put together a range of packages to suit your requirements. These range from branding options, to full scale partner solutions and can be tailored to meet your objectives and budgets.

If you are launching a new product or service and wish to gain visibility and brand recognition within your industry, contact us today!

For commercial opportunities, please contact:

Krisztina Maria Szabo
Tel: +44 (0) 20 3141 0603
Email: kszabo@acieu.net

17:20

CONFERENCE PRESENTATION

Incorporating electric car chargers into urban distribution network using storage systems

- Overview of PREdistribuce, a.s., Status quo of e-mobility in our company / in Prague
- Challenges with e-mobility in dense urban area
- The role of a DSO in facilitating new technologies in distribution grids
- Pilot project: Connecting a fast charger with battery storage and PVE in low voltage grid
- Motivations a reasons behind the project
- Technical parameters and description of whole system
- Results, lessons learned
- Other activities in the area of smart grids

Lukáš Krivanec
Distribution & Grid Innovation
PREdistribuce, a. s.

18:05

CLOSE OF DAY ONE

DAY 2

Thursday 24th January 2019

08:30

REGISTRATION & COFFEE

09:00

CHAIRMAN'S OPENING REMARKS



Patrick Clerens
Secretary General
European Association for the Storage of Energy

09:05

CONFERENCE PRESENTATION

Policy and regulatory changes needed

- Regulatory framework adaptations need to reflect the market model of the present
- Modifications required to lower operational costs of DSOs
- Adopting policy updates that enable public-private partnership agreements to meet standards for lowering CO2 emission levels

Tor Eigil-Hodne
Director of Statnett's EU Office
Statnett

09:50

CONFERENCE PRESENTATION Outlook on the European renewable energy market and regional opportunities awaiting investment



Izabela Kielichowska
Managing Consultant
Ecofys - A Navigant Company

10:35

MORNING REFRESHMENTS

11:05

SESSION FOUR Case studies of energy storage business models

- Evaluation of pilot projects undertaken to facilitate grid optimization
- Performance results from storage facilities located on the premises of power production plants
- Analysis of successful energy storage business models for distinct technology solutions used and source of energy

John Rafferty
Energy Innovation Specialist
ESB Innovation

Tomi Hakala
Network Assets Developer
Elenia Oy

12:20

CONFERENCE PRESENTATION Storage technology mix to respond demand with high penetration of renewables PV and wind

- The Electricity paradigm: Baseload, midload and peak load generation mix
- High penetration of renewables towards a new electricity generation mix
- Storage technologies strengths and weaknesses of each technology and with storage mix to maximize renewables into grid
- Case of Midelt : an introduction of what can be a new renewables = storage mix



Abderrahim Jamrani
Engineering Director
Masen

12:55

LUNCH

13:55

CONFERENCE PRESENTATION Current market models and the need for new business models

- How important is market models for market based development?
- Behind the meter vs. utility scale storage. What is best?
- Will new business models secure a higher uptake of storage?



Jan Pedersen
Head of Office Brussels
Agder Energi

14:40

PANEL DISCUSSION Accelerating the development of energy storage facilities

- Identifying the current barriers holding back the growth of the energy storage market
- Observations from strategies applied and comparing initial projections to actual performance delivered
- Encouraging the production of energy storage technologies and their deployment in the European market
- Ideal market conditions to support the development of energy storage facilities



Dr Nicholas Etherden
Senior R&D Engineer
Vattenfall AB

15:25

CHAIRMAN'S CLOSING REMARKS



Patrick Clerens
Secretary General
European Association for the Storage of Energy

15:35

END OF CONFERENCE & AFTERNOON REFRESHMENTS

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 <http://www.acius.net>

 **Postal Address:**
ACI Europe, 10 Gough Square, London, EC4A 3DE

Registration Is Simple

Conference (Includes Access to Documentation Pack) 23rd– 24th January 2019	£1,695.00
Documentation Pack Only	£440.00

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

For more information please email: mahsan@acieu.net

Documentation Packet Available

We are selling the Energy Storage 2019 papers at just £440 (+£30 P&P). 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.

About ACI

ACI, a UK owned company, has been running successful conferences in the USA since 1999. Headquartered in Chicago, ACI opened its European head office in London at the end of 2005 and has expanded rapidly, launching a series of events in key industries including maritime, energy, chemicals, cosmetics & pharma and opening offices in Poznan (Poland) & Pune (India).

Terms & Conditions

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 (0)20 3141 0606 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.

Accommodation

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.

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