BVES

WORKSHOP 1: TECHNICAL STANDARDS: DESIGN, SAFETY AND SECURITY FOR BATTERY SYSTEMS

March 28, 2023 at 10:30
Workshop at Volta-X, Stuttgart

Reliable future markets are based on suitable standards and certification. What is the current situation? What is to be considered for industry and users? During this interactive workshop participants be provided with insights on the current development for technical standards for battery storage systems in Germany and the EU and discuss best-practice for design, safety and test procedures for batteries.

Moderation: Thomas Timke, Senior Battery Expert Solarwatt
Working Language: English

Upcoming EU battery regulation and current normative challenges
Thomas Timke, Solarwatt GmbH

Battery safety for residential systems and small business applications
Guido Schmülling, Commeo GmbH

Storage Systems for the charging infrastructure as a crucial element for eMobility
Bernhard Böden, Power Innovation GmbH

Software for stationary energy storage systems
Leon Gosh, Cellect

Introduction of the new pre-standard DIN VDE V 0510-100. The first 2nd life standard for EU – conformal repurposing of EV-batteries
Michael Zeyen, vancom GmbH & Co. KG

Two different cases from practice - Repurposing of EV batteries for stationare applications:
NN, FENECON GmbH
Jørgen Erdal, EVYON AS

Key findings of the UK Department for Business, Energy and Industrial Strategy study on the safety of second-life batteries in domestic battery storage system
Prof. Paul Christensen, Newcastle University

Discussion

Registration: Volta-X - Tickets & Öffnungszeiten | Messe Stuttgart (messe-stuttgart.de)

WORKSHOP 2: HOW DOES AN ESS GET RUNNING? BUSINESS MODELS AND REGULATION IN BUILDINGS, INDUSTRY

March 28, 2023 at 15:00
Workshop at Volta-X, Stuttgart

Welche Rahmenbedingungen müssen für den Einsatz von Energiespeichersystemen in Gebäuden und in der Industrie geschaffen werden? Was sind die aktuellen Herausforderungen und Entwicklungen? Welche Geschäftsmodelle bilden sich momentan heraus? Von Festlegungen des Anlagen- und Baurechts bis hin zum Messkonzept für den Betrieb, von Geschäftsmodellen vor dem Hintergrund der geltenden rechtlichen Festlegungen bis zur Versicherungspraxis bei Energiespeichern – diese Themen werden im Workshop angesprochen.

Moderation: Johannes Hauck, Hager Electro GmbH und Co. KG
Working Language: Deutsch

BVES-Branchenzahlen 2023 – Wachstumsmarkt Haushalt und Gebäude
Jörg Blaurock, 3Energie-Consulting GmbH & Co. KG

Rechtliche Rahmenbedingungen und Herausforderungen für Energiespeicher in Haushalt, Gebäude, Industrie
Dr. Florian Brahms, BRAHMS NEBEL Partnerschaft von Rechtsanwälten mbB

Best Practice Energiespeichersysteme für Strom, Wärme, Mobilität in Haushalt und Gebäude
NN., E3DC GmbH, tbc
Dr. Sandu Daniel Kopp, HUAWEI Technologies Deutschland GmbH

Systemlösungen für die Dekarbonisierung der Energieversorgungen von Industrieunternehmen im Zusammenspiel mit dem Stromnetz
Eike Christian Toepfer, IZAAC Energy GmbH

Best Practice in der Industrie: Von Peak Shaving über USV bis Regelenergie
Dirk Willing, INTILION GmbH
Sven Huntemann, TESVOLT GmbH
Robert Härtel, Frequenz Energy-as-a-Service GmbH, tbc
Yvonne Steinhaeusser, Enerox GmbH (CellCube)

Diskussionsrunde

Registration: Volta-X - Tickets & Öffnungszeiten | Messe Stuttgart (messe-stuttgart.de)

WORKSHOP 3:HOW DOES AN ESS GET RUNNING? BUSINESS MODELS AND REGULATION IN ENERGY INFRASTRUCTURE

March 29, 2023 at 10:00
Workshop at Volta-X, Stuttgart

Dieser Workshop widmet sich speziell der Nutzung von Speichersystemen in der Energie-Infrastruktur. Welche Rolle spielen Speichersysteme im Netz und für das Netz? Welches sind die wichtigsten Aspekte bei der Einführung in die Praxis? Welche Regelungen trifft das geltende Recht? Besuchen Sie den Workshop, um mehr über diese Themen zu erfahren und die jüngsten Entwicklungen zu diskutieren.

Moderation: Dr. Matthias Vetter, Head of Department Electrical Energy Storage, Fraunhofer ISE
Working Language: Deutsch

Der Großspeichermarkt in Deutschland – BVES Branchenanalyse 2023
Jörg Blaurock, 3Energie-Consulting GmbH & Co. KG

Aktueller Stand des rechtlichen Rahmens und Ausblick auf die kommenden Entwicklung für Großspeicher im und für das Netz
Dr. Florian Valentin, von Bredow Valentin Herz

Business Case: Netzbooster als technische Netzbetriebsmittel
Carmen Kompatscher, Fluence Energy GmbH

Netzdienliche Nutzung von (Groß-) Speichern - Praxisbeispiele
Benedikt Deuchert, Kyon Energy Finance GmbH

Safety & Security von Li-Ion Großbatterien – Best practice BVES Brandschutzleitfaden
Dr. Jan Regtmeier, Denios SE

Best Practice Großspeichertechnologien:

- Pumpspeicher - **Dr. Klaus Schneider, Beratung Wasserkraft**
- Pneumatische Speicher - **Alexander Börgel, Hypnetic GmbH**
- Flow-Batterien - **Alan Greenshields, ESS inc., tbc**
- Hochtemperatur Thermischer Speicher - **Dr. Robert Pfab, Carbon-Clean Technologies GmbH**

Diskussionsrunde

Registration: Volta-X - Tickets & Öffnungszeiten | Messe Stuttgart (messe-stuttgart.de)

WORKSHOP 4: FLEXIBLE SECTORCOUPLING: IEA ENERGY STORAGE STAKEHOLDER DIALOGUE

March 29, 2023 at 13:30
Workshop at Volta-X, Stuttgart

Decarbonization of the heat sector remains the elephant in the room. How can the heat transition be driven forward? What potential is there for thermal storage in this context? What framework conditions are needed? Join the IEA Energy Stakeholder Dialogue to discuss options on how to accelerate the heat transition and to wake up the sleeping giant.
The International Energy Agency's Technology Collaboration Programme (IEA ES TCP) on Energy Storage presently runs an international project on the topic of Flexible Sector Coupling (FSC).

Moderation: Dr. Andreas Hauer, Taskmanager IEA ES TCP
Working Language: English

FSC is about connecting a multitude of "consuming" sectors to the increasing share of fluctuating renewable electricity generation and using energy storage to provide robustness and flexibility. With "consuming sectors" we here mean the thermal sector, addressing demands of heating and cooling, and the mobility sector, including all modes of transportation. In an increasingly electrified society, most of the energy input comes from electricity, regardless of sector, and with energy storage we get a time-independent, flexible connection between variable renewable electricity production and any demand for energy services. With a holistic approach, energy storage in its many forms - not only batteries, but also more affordable alternatives like hot water storage, underground thermal storage, and more advanced concepts of storing heating and cold, as well as hydrogen storage and any form of synthetic fuels derived from H2 for the mobility sector - can service the overall system in a cost-optimal and functional way.

In this stakeholder dialogue, we call for your input. While technical opportunities are clearly described, cost-benefits mapped out for a number of applications, and some real installations documented to inspire further development, we really need to define opportunities AND challenges with the concept from the perspective of actors involved in the sectors – planners, policy makers, utilities, developers of mobilitysolutions and low-carbon housing and industry.

For the dialogue, you can expect the following:
·A brief introduction to Flexible Sector Coupling, with techno-economic insights on the concept for the case of Germany.
·A guided opportunity to dialogue with the FSC team, to brainstorm around,and eventually conclude on important aspectsrelated to the feasibility of the concept.
·A review of inspiring case applications to bring with you as further food-for-thought.

Registration: Volta-X - Tickets & Öffnungszeiten | Messe Stuttgart (messe-stuttgart.de)

WORKSHOP 5: IT'S THE ECONOMY, STUPID! BANKABILITY AND INVESTABILITY IN ENERGYSTORAGE SYSTEMS

March 30, 2023 at 10:00
Workshop at Volta-X, Stuttgart

Energy storage technologies are gaining more and more attention in the finance and insurance industry. What are the characteristics of investing in storage technologies? What is the value of energy storage? The purpose of this workshop is to bring investors and technology providers on the same level and to jointly shape the further growth of the industry.

Moderation: Markus Rosenthal, Head of policy and Regulation at BVES e.V.
Working Language: English

Bankability and Investability in energy storage systems
Markus Rosenthal, BVES e.V.

Financing of Renewables and Energy Storage
Manuela Heise, DKB

Performance insurance – precondition for a lasting business?
Dr. Sebastian Scholz, Munich RE

Early Face Invest to create European Champions in New Energy
Dr. Markus Forstmeier, EIT Inno Energy

Invest in Energy Storage – A big challenge for institutional investors
Dr. **Nina Fichtl, DIAS Investment Services, tbc**

Beyond Venture Capital – 2Stage Invest
Dr. Alexandros Papaderos, Tach2yone GmbH, tbc

Technical criteria to ensure investability in battery energy storage systems
Patrick Heininger, VDE Renewables GmbH

Discussion

Registration: Volta-X - Tickets & Öffnungszeiten | Messe Stuttgart (messe-stuttgart.de)