

The International Flow Battery Forum™

THE NEW GENERATION IN ENERGY STORAGE - THE USE OF FLOW BATTERIES TO DELIVER SECURE AND CLEAN POWER

The roll out of battery energy storage has been so successful that few people question where the batteries have come from, how long they will last and what their long-term impacts will be on the environment. But this could lead to poor choices, which will have serious long-term impacts. The supply chains are often long and complex, and the apparent race to build new battery factories has left many investors wondering what happened.

Meanwhile local, national and regional governments place a high emphasis on removing fossil fuels from the energy infrastructure, sometimes without considering all the technology options, and so cutting out sustainable and cost-effective solutions in favour of a rapid response. Who makes the decisions on choosing the energy storage technology options of the future? Investors want certainty, project developers want reliability, and society needs sustainable, low cost and secure answers.

Our programme for the IFBF 2025, to be held on 24-26 June in Vienna, Austria, at the Intercontinental Hotel, will bring together all parts of the flow battery value chain.

Our unique combination of a global perspective, not only on flow batteries but also on the entirety of energy storage, along with up-to-date presentations and discussions on energy security, markets, financial aspects, commercial and regulatory issues, manufacturing, the supply chain and research and development into the latest technical breakthroughs gives delegates the opportunity to find out exactly what the flow battery industry can offer now.

The conference, over three days includes oral presentations on commercial, regulatory and technical matters, keynote addresses, panel discussions and a poster discussion session. There is also a visit to the manufacturing base of CellCube, our co-host and Platinum sponsor, on Thursday 26 afternoon. There will be many networking opportunities, including a conference dinner at the Palais Ferstel on Tuesday evening and our well-known poster session on Wednesday.

IFBF 2025 - Preliminary programme

Location: Intercontinental Hotel, Vienna, Austria

DAY ONE - Tuesday 24 June

INVITED KEYNOTE ADDRESSES AND DISCUSSIONS COVERING

- The need for and the take up of energy storage in Austria, central and Eastern Europe
- Energy security and energy storage security.
- The European and International market opportunities for flow batteries, and longer duration energy storage
- Changes needed in the current regulatory environments to grow and support the flow battery industry

DELIVERY OF A LARGE-SCALE FLOW BATTERY INSTALLATION

- Cost effective applications for flow batteries such as:
 - Replacements for peaking plants
 - Providing 24 / 7 (continuous) power
 - The role of capacity markets
 - Assembling the application value stack
 - Supplying energy, or power, or both?
- The roles of an EPC and a systems integrator
- Warranties, and technical assurance for flow battery projects
- The life cycle analysis of a flow battery project

THE KEY TRENDS IN THE FLOW BATTERY INDUSTRY

- Technical and commercial performance metrics for flow batteries
- Competitive analysis between flow batteries and other energy storage types
- Flow batteries in microgrids, transport and other non stationary applications

NETWORKING – COCKTAIL RECEPTION AND CONFERENCE DINNER AT THE PALAIS FERSTEL

DAY TWO - Wednesday 25 June

UPDATES ON TECHNICAL AND COMMERCIAL DEVELOPMENTS IN THE WORLD OF FLOW BATTERIES

- Operational experience of flow battery installations: reviews of commercial applications, and technical performance
- Novel chemistry and novel configurations
- Research and development in flow battery operation, components, integration, and manufacture

IMPROVING THE COMPETITIVENESS OF PRODUCING AND DELIVERING FLOW BATTERIES

- The supply chain for flow battery materials, components and subsystems
- Manufacturing issues and case studies
- Delivering scale in manufacturing and delivery
- Introducing standardisation to achieve scale in the flow battery industry
- Financial analyses and comparisons between market sectors

SELECTION OF FLOW BATTERIES FOR ENERGY STORAGE PROJECTS

- Comparisons between flow battery types (inorganic / organic and hybrid systems)
- Hybridisation of flow batteries with other energy storage systems

RESEARCH AND ACADEMIC INSTITUTIONS AND SUPPORT FOR FLOW BATTERY DEVELOPMENT

- Status of research projects, (including the US National Labs, American states initiatives, European Framework Programmes and other national support)
- Policy support for flow battery R&D and investment in flow battery manufacturing and project development

POSTER PRESENTATION - SPEED PITCH INTRODUCTIONS

NETWORKING - INTERACTIVE POSTER SESSION AND COCKTAIL RECEPTION

DAY THREE - Thursday 26 June

THE GROWING OPPORTUNITIES FOR FLOW BATTERIES - MARKET DEVELOPMENTS IN ENERGY STORAGE

- What is the competition for flow batteries?
 - Competitive comparison between long and short duration energy storage technologies
 - Manufacturing cost comparisons between flow batteries and other battery types
 - Critical, financial and strategic issues in flow battery manufacture
- Comparisons and contrasts between business and environmental cases for flow batteries
- Business opportunities for flow battery applications in industrial and commercial operations

ENERGY STORAGE SUPPLY SECURITY

- Cyber security and operational security
- Supply chain security
- Environmental responsibility and safety

RESEARCH AND DEVELOPMENT IN FLOW BATTERY OPERATION, COMPONENTS, AND MANUFACTURING

- Operational experience of flow battery installations
- Flow battery systems integration, power conversion systems, digital control
- International collaboration on flow batteries and energy storage and reports on collaborative projects
- Finance, funding and regulatory changes to support the research, development and deployment of flow batteries

AFTERNOON SITE VISIT

- Visit to CellCube manufacturing facility and headquarters located in Vienna.