



Webinar «Smart Solutions in Energy storage and Renewable resources» (Bern – Brussels – Bratislava)

With invited guests from Switzerland, the European Commission and Slovakia

Date 17th of June 2021

Time 10.00 a.m. – 13.00 p.m.

Place Online-Meeting, Bern

Aim The main goal of the webinar is to bring together actors from the public and private sectors from Switzerland and Slovakia as well as the European Commission to raise awareness of the importance of establishing a novel approach towards innovative, sustainable and competitive industry through clean technologies, especially energy storage and renewable resources.

10:00 **Introduction** by Moderator **Matthias Egli**, Board member of Smart City Verein Bern

Address by Ambassador of the Slovak Republic in Bern **Alexander Micovčín**

10:05 **Topic:** «Switzerland's Energy Strategy 2050, Renewable Energy and Flexibility Development»

The Swiss Energy Strategy foresees a major increase in renewable energy to replace nuclear power and reach net zero by 2050. This will require much system flexibility and storage capacity. That's why the Swiss Federal Office of Energy supports research, pilot and demonstration projects in that field.

Speaker: Ambassador **Jean-Christophe Fueeg**, Head International Energy Affairs, Swiss Federal Office of Energy

10:20 **Topic:** «Energy Storage and its importance for Switzerland»

Energy storage is a key factor for the success of the energy transition. The presentation shows what role energy storage plays within the energy system and what framework conditions are necessary for the smooth interaction of production, consumption and storage.

Speaker: **Frank C. Krysiak**, Professor Environmental Economics, Universität Basel

10:30 **Topic:** «Batteries as key element for the Energy Transition»

An overview of the research activities on decentralized electrochemical storage and energy production in Switzerland.

Speaker: Prof. Dr. **Andrea Vezzini**, Berner Fachhochschule Biel

10:45 **Topic:** «Swiss Federal Railways 100% renewable – a brief insight»

Swiss Federal Railways (SBB) 100% renewable: why, how and what – an insight into the activities around the diesel-traction and its environment.

Speaker: **Ueli Kramer**, Head of Competence Centre Energy Storage at SBB

11:00 **Topic:** «Utility-scale batteries: worth it or not? The guide for a good project start»

Peak-shaving, ancillary services, self-consumption, voltage stability, intraday and day-ahead markets... The opportunities for utility-scale batteries are increasing, and so is the complexity for decision makers. BKW helps utility companies on their journey from pre-study to engineering and execution to commercialization of large battery projects.

Speaker: **Germain Augsburger**, team lead battery solutions, BKW

- 11:10** **Coffee Break**
- 11:15** **Opening Remarks** by **Adam Romanowski**, Member of Cabinet of European Commission Vice-President Maroš Šefčovič
- 11:25** **Keynote** by **Thore Sekkenes**, Director in charge of the European Battery Alliance (EBA) at InnoEnergy
- 11:40** **Topic:** «Where we can use smart battery energy storage system?»
The main purpose of the presentation is to present potential applications of using smart energy storage system. We want to show advantages and disadvantages of particular applications divided in front of the meter and behind the meter use-cases. SBaA would like to inform about existing and planned projects in Slovakia
Speaker: **Marián Smik**, Chairman of the Slovak Battery Alliance (SBaA)
More information at: <https://sbaa.sk/o-aliancii-en>
- 11:55** **Topic:** «Second-life batteries. The production and use»
Back-cycle of EV's battery - our goals and challenges. Development and construction of the factory for mass production of second-life batteries from EV's. Final reprocessing of the spent batteries. Use of second-life batteries in stationary energy applications and construction of the factory for mass production of energy storage systems based on second-life batteries.
Speaker: **Stanislav Králik**, Director ZŤS-VaV
More information at: https://ec.europa.eu/commission/presscorner/detail/en/ip_21_226
- 12:05** **Topic:** «Flow batteries and their usage in smart energy storage solutions supported by artificial intelligence»
InoBat Energy is a Slovak company with the aim of developing energy storage solutions based on the flow battery technology. The presentation will cover short introduction to energy storage solutions, steps that are being undertaken in order to increase share of renewable energy within the grid, as well as InoBat Energy's project under IPCEI initiative („Important Projects of Common European Union“).
Speaker: **Patrik Kurilla**, Business Analyst, InoBat Auto
More information at: <https://www.inobat.eu/>
- 12:15** **Topic:** «Smart Cities Klub - Slovak Smart Cities potential for off-grid pilot projects»
Smart Cities Klub is an original informal platform for sharing experiences and support collaboration between its members, but also for sharing best practices and knowledge from abroad. It represents potential platform for testing new solutions, validating pilot approaches and subsequently sharing project results. Smart Cities Club gathers Slovak cities, which are open to innovation and have sustainability, climate change and quality of life as their top priorities. What are Smart Cities Klub activities and what is the potential for off-grid projects in Slovak cities?
Speaker: **Miloslav Jurík**, Chairman, Smart Cities Klub.
- 12:25** **Closing Panel and Q&As with the Speakers**, moderated by Matthias Egli
- 13:00** **Conclusion, End of Webinar**
- Language** **English**
- Moderation** **Smart City Verein Bern**
- Organisation** **Embassy of the Slovak Republic in Bern** in cooperation with **Smart City Verein Bern**