



5th July 2018
KKL - Lucerne
Switzerland

INVITATION EUROPEAN GRID SERVICE MARKETS symposium 2018

GRID FLEXIBILITY & BUSINESS WITH NEW TECHNOLOGIES

Control reserves - Virtual power plant
Direct marketing - Dynamic load management

The way how the **electrical energy market** is organized in Europe is changing, opening opportunities for more flexibility in generation and consumption.

New sustainable technologies such as water electrolyzers, fuel cells, batteries and others meet the needs of the **future transmission and distribution grid**.

Flexibility, virtual power plant, dynamic load management, direct marketing, control reserves, grid services are few of the key words addressing this challenge.



09.00	Registration	Christoph Imboden, head Research Group Power Economy,
10.00	Welcome & introduction	Lucerne University of Applied Sciences HSLU, Lucerne/CH Regine Reißner, project coordinator QualyGridS, DLR, Stuttgart/DE

Regulations & Markets

10.15	Legislative progress in the harmonisation of ancillary services markets in Europe	Nicolas Kuen, DG Energy, European Commission, Brussels/BE
10.45	Opportunities for storage units based on the Enexis smart storage units (SSU) project	Fons Jansen Enexis B.V. Tilburg/NL
11.15	Networking coffee break	

11.30	Flexibility market development in Baltic states	Elis Paas Elering AS, Tallinn/Estland
12.00	Impact of renewable energy systems to operational work of power companies in the central and eastern Europe region and usage of ancillary services	Davor Bošnjak, Danko Marčić HEP/HR

12.30 Business lunch on the terrace of KKL, coffee in the exhibition & in front of the club rooms

Experience with Business Models

13.30	European hydrogen, fuel cell and electrolyser industry and grid services: contributions, business expectations, needs	Jorgo Chatzimarkakis Hydrogen Europe, Brussels/BE
14.00	Flexibility in the distribution grid: future business models	Noha Saad Hussein, Niklas Hartmann Fraunhofer ISE, Freiburg/DE
14.30	Hydrogen as the solution to many problems – but how and when?	Andrei Zschocke Uniper Innovation, Essen/DE
15.00	Optimization strategies for the operation of renewable energy units in smart markets	Alexander Dreher, Fraunhofer IEE (Institute for Energy Economics and Energy System Technology), Kassel/DE

15.30 Networking coffee break

16.00	ENERGY market design instead of ELECTRICITY market design	Matthias Sulzer SCCER FEEBD, Empa, Zurich/CH
16.30	Demand side management potentials of service companies – results of the empirical study REFLEX-DSM	Ulrich Reiter TEP Energy, Zurich/CH
17.00	Discussion and conclusion	Chr. Imboden, HSLU Lucerne/CH Regine Reißner, DLR, Stuttgart/DE

17.15 Grid apéro & fuel cell exhibition

19.30 **Networking: great Dinner on the Lake** (optional, together with EFCF)
Boarding 19.20, lake side of KKL pier 5/6 – back 23.15; 22.30 short stop in Brunnen for early return by train

Register regularly until 5 June

On-line: www.EFCF.com/GSMreg

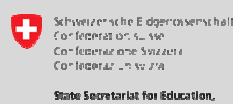
Family name, first name:

Institution:

Email:@..... E-mail to: GSM@efcf.com or Fax: +41 43 508 0622

Select: Day programme	☐ CHF 350.-	CHF 80.- for EFCF 2018 participants; includes refreshments, business lunch, documents, access to exhibition & poster area	} Total CHF -
Dinner on the Lake	☐ Number of tickets at CHF 120.-		

OPEN for POSTER contributions send ½ page abstract until 15 June GSM@efcf.com



Under the umbrella of the FCH JU project "QualyGridS" www.QualyGridS.eu, by Lucerne University of Applied Science & Arts www.HSLU.ch & European Fuel Cell Forum, high-level event for Fuel Cell, Electrolyser & Hydrogen with tutorial www.EFCF.com. This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking under grant agreement No 735485. This Joint Undertaking receives support from the European Union's Horizon 2020 research and innovation program and Hydrogen Europe and N.ERGHY. This work is supported by the Swiss State Secretariat for Education, Research and Innovation (SERI) under contract number 17.00009.