7th Annual Conference

FEATURED ARTICLE **NEWS EVENTS**

OPPORTUNITIES

The Head of SCCER-FURIES shares his experience

FEATURED ARTICLE

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After 7 years leading the SCCER-FURIES, we reached Prof. Paolone to share his experience.

Prof. Dr. Paolone, which are the key achievement of the SCCER-FURIES?

The SCCER-FURIES changed the power system research in Switzerland for the years to come. While there were several elements that to have contributed the

implementation of Center's activities, the high engagement of the industry played a catalytic role. This engagement, in terms of number of both companies and collaboration, started from Phase I but significantly increased during the Phase II while innovative solutions started being fully developed. This was the appropriate time since this engagement enable the demonstration of the most promising solutions in the real grid and transfer of knowledge and technology from the lab to the market. Which are the key challenges of leading large-scale consortiums? The leading of such Consortium was not without challenges. Indeed, partners were coming from

a variety of disciplines, linguistic areas and degree of openness in collaboration. This could have created misunderstandings

sometimes frictions. Even more, at the Phase II, partners had to collaborate closely in the frame of concrete projects, notably the largescale demo activities. While on that point of time, SCCER-FURIES partners had already developed a level of trust among them new stakeholders had to be involved too. This required alignment of research activities and interests and consideration of sometime of hidden agendas. Experience acquired from large-scale international projects was always useful for handling such situations. However, at the national level, interactions needed to be even more close and when infrastructure deployment was required, having everyone on board was a necessity. Given of the challenges of the large scale demo activities and multi-partners networks, do you still believe that those are important for implementation of the energy strategy? Such large-scale demo activities are at the

the Swiss Energy Strategy 2050. Along with other research and demonstration activities of the Center they have contributed to make the

same time an essential outcome of the SCCER

programme and required for the achievement of

power system sector in Switzerland way more competent and organized than what it was back in 2014. Furthermore, now we do have a network of laboratory with strong links and interconnections that involves also industry. The added value of such a network has attracted international visibility and enable Swiss research community to compete



has achieved a lasting impact on the power system domain in Switzerland by (a) developing and validating a set of technologies (see

At the bottom line, Innosuisse SCCER-FURIES

Achievement at the WPs) with measurable impact on the planning and control of distributed

energy resources in the future Swiss power and energy grid; developing in-country capabilities of over 250 experts; and (c) establishing a network of laboratories that will keep collaborating even beyond 2020. The experience acquired over all these years, could be distilled in 3 recommendations: Recommendation 1: Regulator: Enable the development of market mechanisms that leverages distribution grid local dispatch. Recommendation 2: DSOs: Leverage distributed sensing technologies for power grids situation awareness to develop control schemes of

postpone the network reinforcement and integrate control process of dispatchable local energy resources into power distribution grid planning.

controllable units (e.g., batteries, DSM) to

Recommendation 3: Swissgrid: The Swiss transmission power system should strengthened against the credible hazards involving the simultaneous loss of few transmission elements, which has the potential to cause critical disruptions of the electricity supply to the customers. Placement of dispatchable power plants and grid-level battery energy storages locations

decommissioned/soon-to-be- decommissioned nuclear power plants could be one option for ensuring seamless energy transition too. **NEWS Event: Annual Conference"Large-scale demonstrators for the** implementation of the Swiss Energy Strategy 2050"

SCCER

SCCER-FURIES 7th

ANNUAL CONFERENCE 28th October 2020 Presentation available on:



In a well-attended event, with over 100 smart-grid experts from academia, industry, and public sector in Switzerland presented their activities in the

customer

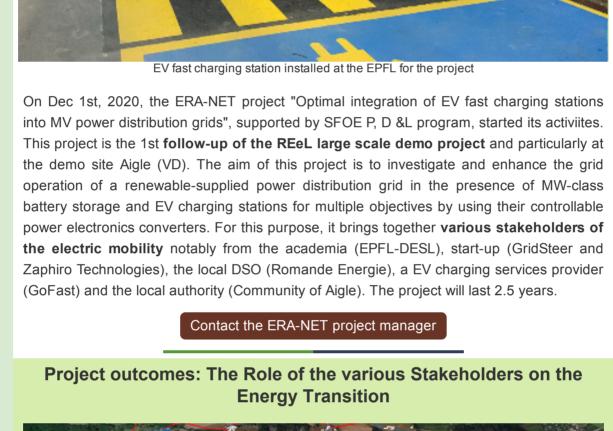
Project kick-off: ERA-NET Optimal integration of EV fast charging stations into MV power distribution grids

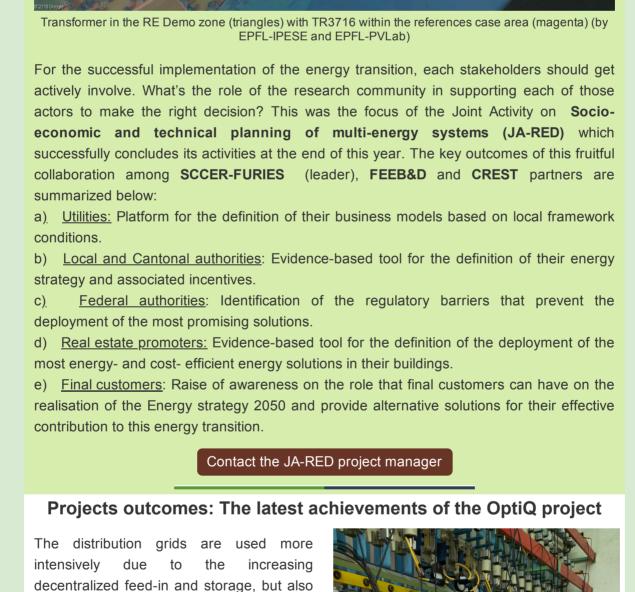
video presentation

and

Link to panel presentations

activities.





Report: SCCER Mobility Synthesis Book The SCCER Mobility has released the Synthesis book

correlations

due to electromobility and heat pumps. The power quality (PQ) is strongly influenced by the increased use of power electronics and the change in the frequency-dependent grid impedance. The grid impedance can have an unfavorable effect on the power line communication (PLC). In this project, which was supported by the SFOE and Innosuisse (SCCER FURIES), Prof. Höckel's team from

the

measurements in different distribution grids and in the laboratory as well as by simulations. Recommendations for the grid planning and grid operation as well as tools for the target grid planning were developed.

Final report (DE)

analysed

sccer

Actions"

January 2021; @virtual ERA-Net SES Virtual working group meetings January & February 2021; @virtual 5th annual IEEE Texas Power and Energy Conference (TEPEC) February 2-5 2021; @virtual 30th IAHR 2020 - Hydraulic Machinery and Systems <u>virtual conference</u> March 21-26 2021; @ virtual (organized by EPFL) 2020 IEEE - International Forum on SmartGrids for Smart CitiesDays, March 2021 - exact dates to be confirmed; @ Aachen(DE)

For more and up to date information, please follow us on our LinkedIn page. in Camille Bauer & BFH Power Grids Lab Seminar "Praxisseminar Fachspezilalist nach NIV (EN50160

FURRIES

Measurements - Optiq Project

Contact Project team

March 2 2021 @ virtual **OPPORTUNITIES**

Deadline: Feb 1st, 2021 SNFS - Postdoc.Mobility. Deadline: Feb 1st, 2021

assistant professor)

und EMV, EMF)

FUNDING

(Innosuisse) Flagship projects.

Deadline: Call to be launched on Jan 14th, 2021

<u>SNSF - Eccelenza (research project as an</u>

ERA - Net SES - Joint Call 2020 (MiCall20) on <u>Digital Transformation for green energy transition</u> Deadline (expression of interest): Feb 17th, 2021

SWEET Call 1 "Living and Working"

SWEET Call 2 «Impact of different influencing factors on critical energy infrastructures and the resilience of the current and future Swiss energy system» (Summer 2021)

Deadline: Spring 2021

Deadline: Summer 2021

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SCCER-FURIES LinkedIn account. You will find there news and info about new projects and partners, job & funding opportunities, as well as events worth

attending.

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STAY IN TOUCH **Knowledge Hub**

> You will find more about FURIES' Partners, Projects and Projects' Outcomes on our Knowledge Hub Read more

in

Unsubscribe

Electrical Engineer Industrial and <u>Automation Engineer</u> @Vifor-Farma, Fribourg

R&D Power Electronics Engineer

Industrial and Automation Engineer @Daphne Technology, Saint-Sulpice

CAREER

Converters

Engineer & Entrepreneur

@ EssentialTech Center EPFL

Control Engineer for Power

@Hitachi ABB Turgi, Aargau

@ ABB Turgi, Aargau

@Logitech, Lausanne

Electrical Engineer

<u>Electrical Engineer System Drives</u>

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about the SCCER-FURIES?

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of the Center. This report provides an overview of the center, its history, milestones and the main research outputs. If you are interested in knowing more about the work undertaken by our colleages at the SCCER Mobility pleas do not hesitate to go through this nice work. SCCER Mobility Synthesis Book **EVENTS** <u>UNIL-EPFL Seminar Series "CLIMACT Ideas &</u>