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What is SWEET?



Over the years, **Innosuisse SCCER program** has contributed to the achievement of the Swiss energy strategy 2050 (ES2050), through capacity building at the academia as well as transfer of knowledge and technology to the market. Indeed, according to the Innosuisse Programme report, in 2019 there were 1386 researchers involved in SCCER activities. Moreover, 139 new partnerships were initiated with the private and public sector. The maintenance and further enhancement of the SCCER program's momentum is essential for the ES2050 achievement and, therefore, the aim of **new initiatives**, put together by federal offices, such as the Swiss Federal office of Energy (SFOE) and the Innosuisse.

On February 26th, 2020, the Federal Council approved a new instrument proposed by SFOE for the promotion of energy research, the **SWEET** (Swiss Energy research for the Energy Transition). SWEET aims to accelerate innovation by supporting portfolios of interrelated, transdisciplinary projects addressing specific research topics.

Such projects portfolios will include solutions of different technology readiness levels, and the most promising of them should reach the market after 6-8 years. The close collaboration of research institutes with the swiss private and public sector is essential. SWEET program will last 12 years (2021-2032) with competitive calls over the first 6 years. For more information, please visit the SFOE [SWEET webpage](#). For further funding opportunities, such as the upcoming Innosuisse funding instrument Flagship, have a look on the related section below and stay tuned on our [LinkedIn group](#).

We encourage SCCER-FURIES partners to reach out to the responsible offices of energy funding agencies in order to ensure seamless continuity of their activities. The SCCER-FURIES Management office remains available for any support that might be needed.

Contact SCCER-FURIES

NEWS

SNSF NRP70 and NRP 71 summary report on energy networks

"Switzerland's energy grids are reliable and stable but they are facing new challenges." This is the key outcome of the energy network activities under the NRP 70 and 71 programmes of the Swiss National Science Foundation (SNSF). Between 2012 and 2019 in the frame of these programmes, 16 FURIES' partners were involved in 17 projects related to any aspect of power grid, from components, including both power electronics and renewable integration, to grid control and electricity market scenarios.



Projects' summary

Program's synthesis

Grid impact from EVs in a 100% decarbonized world of 2050



What is the impact of the EVs on the power infrastructure of the future? This is the research question that the BFH-PVLab aims to address through a series of activities, including:

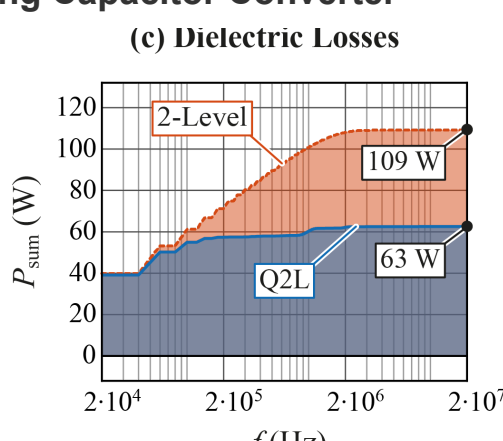
- (a) the study "SimZukunft" 2050 at the City of Burgdorf;
- (b) active involvement in the IEA Task 17 "PV in transportation";
- (c) inauguration of a New PV research-, test- and demonstration plant in Burgdorf; and
- (d) development of a Winter electricity PV test facility in Adelsboden.

BFH-PVLab's recent activities

Contact BFH-PVLab

New Quasi-2-Level Operated Flying Capacitor Converter

ETHZ-PES lab developed a 40kV / 300kVA Quasi-2-Level Flying Capacitor Converter (Q2L-FCC) performing better than the conventional solution. Indeed, compared to a conventional 2-Level implementation with direct series-connected and simultaneously switched power transistors, Q2L-FCC has output voltage spectrum with lower harmonic energies at HF. Enables reduced partial discharge amplitudes, dielectric losses and EMI emissions, and mitigates the transformer/ inductor/ cable/ load resonances impacts.



Access Summary

Contact ETHZ-PES

USI partner wins 1st position in international competition



On the February 12th, U.S. Department of Energy has announced the leaders of the Grid Optimization Competition. Our colleague from Prof. Schenk's team in USI, PhD student Juraj Kardos is member of the winning team. Winners will share a total of \$ 3.4 million, to be used in further development of their approaches and technology adoption to the changing industry requirements.

Kudos to M. Kardos!

More info about winner

Contact USI-ICS

Female scientists

Over the years, the number of SCCER-FURIES female scientists has been almost doubled with 3 of our partners, namely EPFL-DESL, EPFL-PEL and ETHZ-PSL, reaching almost a 50/50 gender equilibrium of PhD students.

For the International Women Day, celebrated worldwide on 8th of March, we would like to thank our 37 female colleagues for all their contribution and commitment to the project, on the way to meet established goals.



EVENTS

Considering current situation of COVID-19, most of the events, in the near future, has been suspended. Some later events are enlisted below, but please stay aware of some potential cancelation.

[7th SCCER Mobility Annual Conference](#),
30 June 2020; @ ETH Zurich (ML E-floor)
[PHD Summer School Mont-Soleil](#),
10-15 August 2020; organized by BFH & EPFL
[4th International Workshop DynPower](#)
7 September 2020; @ Casinotheater in Winterthur
[SCCER BIOSWEET Annual Conference](#)
10 September 2020



For more and up to date information, please follow us on our LinkedIn page.



OPPORTUNITIES

FUNDING

[\(MSCA\) Research and Innovation Staff Exchange \(RISE\) 2020](#)
Deadline 28.04.2020
[\(SNSF\) Sinergia – interdisciplinary, collaborative and breakthrough](#)
Deadline 1.06.2020
[\(SNSF\) Practice-to-Science](#)
Deadline: 15.07.2020
[\(SNSF\) Call for PRIMA grants \(women researchers\)](#)
Deadline 1.11.2020
[\(SFOE\) SWEET - SWiss Energy research for the Energy Transition](#)
Deadline: first call in summer 2020
[\(Innosuisse\) Flagship projects](#)
Deadline: to be defined in 2020

CAREER

[Postdoctoral Position in Optoelectronic Devices](#)
@EPFL
[Dozent/in und Projektleiter/in für intelligente Energiesysteme 80-100%](#)
@HSLU
[Ingénieur d'Exploitation 100% \(F/H\) @RomandeEnergie](#)
[PhD Position: Silicon Carbide Power Electronics](#)
@ETHZ
[Dozierende/-r für dezentrale thermische Energiesysteme \(100 %\)](#)
@ZHAW

STAY IN TOUCH

SCCER-FURIES LinkedIn

Don't forget to follow us on our 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.

Follow us

Knowledge Hub

Would you like to have more information about the SCCER-FURIES?

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

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