



Newsletter - 2nd Trimester 2017



Dear key Swiss electrical infrastructure actors,

6 months have already passed since the beginning of the Phase II (2017-2020) of SCCER-FURIES and new projects and training activities are put in place in its frame while existing activities further advanced.

In this 2nd Newsletter of 2017, a featured article provides further information about the largest demonstrator of SCCER-FURIES, called [REeL Demo](#). This project was developed over the last 2.5 years; involves 16 SCCER-FURIES partners, supported by SFOE P&D&L and is led by Romande Energie.



Two [thematic Workshops](#) are organised by ZHAW (Prof. Korba) and HES-SO in Fribourg (Prof. Favre-Perrod), respectively, in order to coordinate activities and transfer knowledge among academic and industrial partners. Also, the 1st (pan-) SCCER School will be held in October with the participation of 200 PhD, and Postdoctoral students and Scientific assistants. All of these training activities are free of charge for SCCER-FURIES partners.

For the funding of additional activities, [various Funding opportunities](#) are available. They aim to support career and project development and are provided in the framework of European and National programmes, notably of COST, SFOE, SNSF and CTI. Please feel free to explore them and we would be happy to support your application.

[Our highlights](#) of this Newsletter focus on the SCCER-Mobility activity report for Phase I and the kick-off meeting of the project "OptiQ" of BFH (Prof. Höckel).

Finally, if you are looking for a new challenge, one of our partners might have the [open position](#) you are looking for and/or you could consider our [Events section](#) for new network opportunities and collaborations.

Best regards and enjoy the reading,

Your FURIES Management team

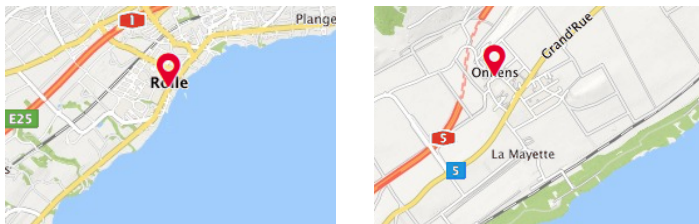
Table of Content

- 1. Featured article: REeL Demonstrator**
- 2. Thematic Workshops**
- 3. Funding & Opportunities**
- 4. Highlights**
- 5. Events**
- 6. Open positions**

1. Featured article: REeL demonstrator

REeL, which stands for “Réseau En Equilibre Local – Network in Local Balance”, aims to offer a full-scale environment for the validation of innovative solutions developed during the Phase I of the SCCER-FURIES. 11 academic and 5 industrial partners participate to this project which is supported by the Swiss Federal Office of Energy (SFOE – P+D+L programme) and led by Romande Energie.

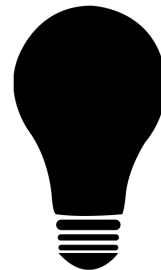
Technologies developed over the Phase I will now, in Phase II, be deployed in two sites:



1. An urban area in Rolle (VD) characterized by decentralized production
2. A rural area near the village of Onnens (VD) characterized by the integration of one of the biggest photovoltaic plants of Switzerland.

These technologies will enable the grid operator, Romande Energie, to improve the controllability and efficiency of its grid by embedding new functionalities in its control system. These include real-time situation awareness; fault location, isolation and services restoration; real-time congestion and load profile management; and flexibility transfer across grid levels. Technical activities will be coupled with socio-economic studies to enable their integration into the grid.

The REeL Demo team aims to prove that the future grid can be a key player of the energy transition and contribute to the success of the Swiss Energy Strategy 2050.



5. Events

September

EIP Networking Meeting

04/05.09.2017- HSLU, Luzern

[Read more](#)

SCCER-BIOSWEET - Annual Conference

05.09.2017 - Brugg

[Read more](#)

CISBAT 2017 - Buildings and Districts

06/08.09.2016 - EPFL, Lausanne

[Read more](#)

International workshop on dynamic stability challenges of future electric power grids

11.09.2016 - ZHAW, Winterthur

[Read more](#)

SCCER-CREST - Annual Conference

12.09.2017 - St. Gallen

For further details, please contact Mr. Arnoud Bifrare (Romande Energie) and/or Mr. Georgios Sarantakos (SCCER-FURIES Management office).



2. Thematic Workshops

2.1 Dynamic stability challenges of future electric power grids

11 September 2017 - ZHAW, Winterthur

This international workshop, organised by WP2 Leader Prof. Dr. Petr Korba and Dr. Rafael Segunto, will bring together a panel of experts to debate on the most appropriate way to overcome the future energy challenges related to dynamic stability. The contributions will address challenges in monitoring, protection and control of the future power grid. 9 speakers have confirmed from both Switzerland and Europe; and industry and academia.



[Read more](#)

2.2 Insulation issues of MV grid connected inverters: Standards, topologies, materials

20 September 2017, 9:30 – 14:00 - HES-SO, Fribourg

The WP3 Leader, Prof. Dr. Patrick Favre-Perrod, invites you to the technical Workshop of the WP3. This workshop will bring together SCCER-FURIES experts working on the "Insulation issues of MV grid connected inverters: Standards, topologies, materials" to discuss about current status of research and potential collaborations.



[Read more](#)

2.3 1st SCCER School – Shaping the Energy Transition

17 - 20 October 2017 in Engelberg

The 8 SCCERs are glad to invite you to the 1st SCCER School entitled "Shaping the Energy Transition".

The SCCER School is open to PhD, postdoctoral students and scientific assistants, who are working in the field of energy research. Three days full of interdisciplinary presentations, debates, and excursions are awaiting you. Expand your network and gain fresh ideas!

[Read more](#)

SCCER-SoE - Annual Conference

14/15.09.2017 - Birmensdorf (WSL), Zürich

[Read more](#)

SCCER Mobility - Annual Conference

15.09.2017 - ETHZ, Zürich

[Read more](#)

Workshop: insulation issues of MV grid connected inverters

20.09.2017 - HES-SO, Fribourg

[Read more](#)

Swiss Energy and Climate Summit

20/21.09.2017 - Bern

[Read more](#)

October

D-A-CH+ Energy Informatics 2017

5/6.10.2017 - Lugano
German-Austrian-Swiss conference

[Read more](#)

1st SCCER School –

Shaping the Energy Transition

17/20.10.2017 - Engelberg

[Read more](#)

November

SCCER-FURIES - Annual Conference

02.11.2017 - SwissTech Convention Center, Lausanne

[Read more](#)

SCCER HaE Storage - Annual Conference

25.11.2017

[Read more](#)

**SCCER EIP and SCCER
FEED&D joint Annual
Conference**
30.11.2017 - ETH, Zürich

[Read more](#)



[Read more](#)

3. Funding Opportunities

3.1 European

- [COST Action proposal](#)
Deadline: 07.09.2017
- [InnoEnergy](#)
Deadline: 23.10.2017

3.2 Swiss Federal Office of Energy (SFOE)

- [Grids R&D Programme](#)
Deadline: Closed until 2018
- [Electricity Technology R&D Programme](#)

Deadline: Open deadline
- [Hydro Power R&D Programme](#)
Deadline: Open deadline
- [Pilot and Demonstration Programme](#)
Deadline: Open deadline

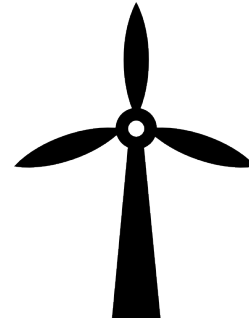
SFOE Guide for fundings:

- [Opportunities for innovation support](#)
- [New Swiss Energy Research Statistics 2015](#)

3.3 Swiss National Science Foundation (SNSF)

- [Doc.Mobility](#)
Deadline: 01.09.2017
- [Early Postdoc.Mobility](#)
Deadline: 01.09.2017
- [Advanced Postdoc.Mobility](#)
Deadline: 01.08.2017
- [Project funding](#)
Deadline: 01.10.2017

3.4 Commission for Technology and Innovation



6. Open Positions

**Postdoctoral Researcher on
Analysis of Power Systems
Dynamic**

The Institute of Energy
Systems and Fluid
Engineering (IEFE)
ZHAW - Zürich

[Read more](#)



- [With implementation partners](#)
Deadline: Monthly deadlines;
Upcoming: 19.06.2017; 24.07.2017;
21.08.2017; 18.09.2017
- [Without implementation partners](#)
Deadline: Monthly deadlines;
Upcoming: 19.06.2017; 24.07.2017;
21.08.2017; 18.09.2017



4. Highlights

4.1 SCCER-Mobility published its first working paper from Phase I

The working paper entitled Towards an Energy Efficient and Climate Compatible Future Swiss Transportation System, developed by SCCER Mobility analyzes the current state of the Swiss transport sector and outlines possible paths towards a more sustainable mobility future.

Projections indicate the need for a massive reduction of CO2 emissions per traveled distance.

Possible transport development scenarios to reach these targets are elaborated and evaluated based on their economic, social and environmental impact.



[Read the paper](#)

4.2 Project "OptiQ" started

The kick-off for the new project «OptiQ» was held on 9 May 2017 at the Bern University of Applied Sciences in Biel.

OptiQ, which is supported by the SFOE and SCCER-FURIES, aims to identify and measure the different factors that influence power quality, availability and grid usage, in the case of the integration of decentralized production and electrical energy storage systems. The results and recommendations will be implemented in a quality-orientated target grid planning.



In cooperation with the CTI



Energy funding programme



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Commission for Technology and Innovation CTI

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