



**ATTEND: SCCER-FURIES  
7th Annual Conference**

**FEATURED ARTICLE  
NEWS  
EVENTS  
OPPORTUNITIES**



**Attend the 7th SCCER-FURIES Annual Conference**

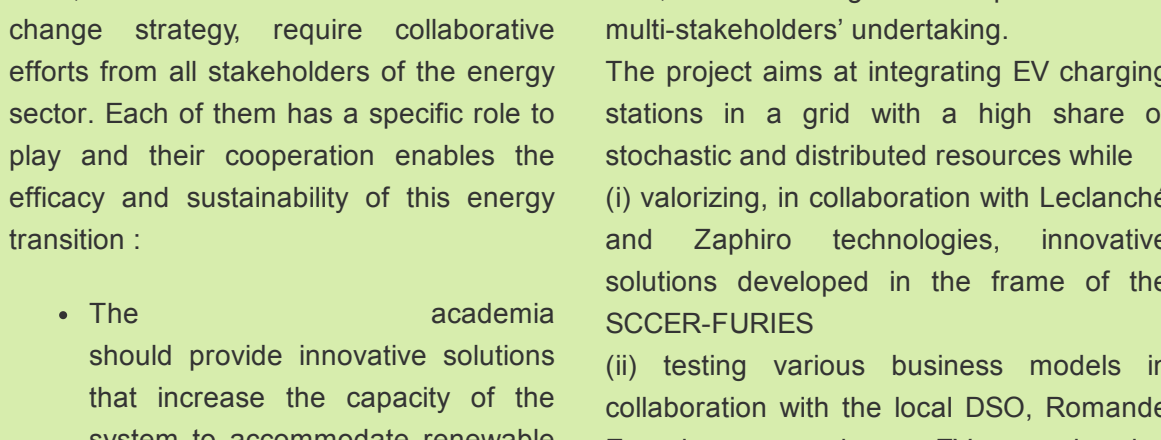


[Register for the event](#)

[See the program](#)

## FEATURED ARTICLE

### SCCER-FURIES' interdisciplinary collaborations contributing to the Swiss Energy Strategy 2050



The success of the Swiss Energy strategy 2050, as well as the national Climate change strategy, require collaborative efforts from all stakeholders of the energy sector. Each of them has a specific role to play and their cooperation enables the efficacy and sustainability of this energy transition :

- The academia should provide innovative solutions that increase the capacity of the system to accommodate renewable energy resource while ensuring the reliability, security and efficiency of the overall system;
- The industry should deliver new business models for the promotion and implementation of these solutions into the market;
- The authorities should settle the appropriate framework conditions that allow value creation for the involved parties.

In the frame of SCCER-FURIES, the number of projects that incorporate such an interdisciplinary approach has increased over the years. This reflects both market needs and the growth in the maturity level of the proposed solutions.

The MESH4U project, financed by SFOE P, D&L, serves as a good example of such a multi-stakeholders' undertaking.

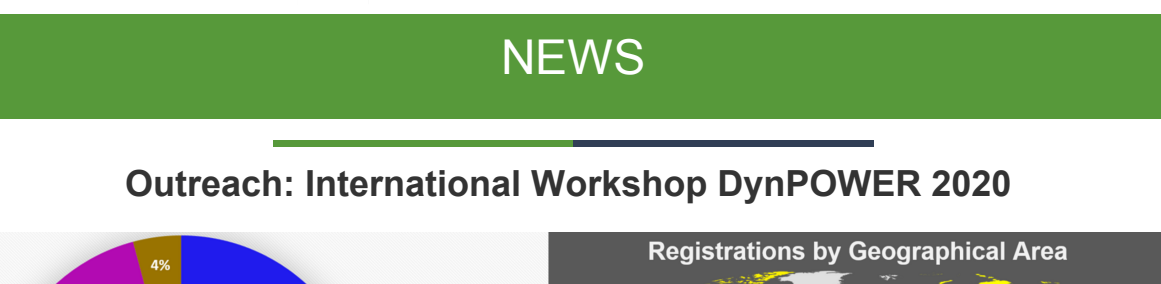
The project aims at integrating EV charging stations in a grid with a high share of stochastic and distributed resources while

(i) valorizing, in collaboration with Leclanché and Zaphiro technologies, innovative solutions developed in the frame of the SCCER-FURIES

(ii) testing various business models in collaboration with the local DSO, Romande Energie, and EV charging company, GoFast, (iii) consulting with the local authority, namely the Municipality of Aigle, on the most pragmatic way of increasing the share of locally produced electricity contributing, and (iv) providing cantonal authorities, Canton of Vaud, with evidence-based recommendations for the energy planning and electrification of the mobility sector.

An interdisciplinary and highly collaborative way of executing this project underlines the importance of the undertaken approach and leads the way towards the future.

For further information on this and other transdisciplinary projects, stay tuned.



## NEWS

### Outreach: International Workshop DynPOWER 2020



The 4th edition of the International Workshop **DynPOWER 2020** took place on September 7<sup>th</sup> 2020 as a virtual event, organised by Dr. Rafael Segundo of Prof. Korba's group at the ZHAW. During this one day meeting, 8 speakers contributed with presentations on current challenges of the transmission systems in China, Mexico, Switzerland, Cyprus, the Netherlands, USA and Brasil.

The workshop was attended by 264 participants from 46 different countries (See illustrations).

Among the participants were representatives from industry, academia and the general public. The most represented regions among the participants were from South Asia, North America and Europe. The feedback of the participants was very positive and given the success of the event, a consecutive edition has already been confirmed. All presentations and videos from the workshop can be found directly on the website.

[DynPower](#)

### Outreach: SCCER-FURIES Special Session at SPEEDAM 2020



On Wednesday **June 24<sup>th</sup>**, a special SCCER-FURIES session took place in the frame of the 2020 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) conference. This high impact event brings together international experts on the field and given its virtual format, this year it was well attended.

Under the session **Power Grid Innovative Solutions towards the Implementation of the Swiss Energy Strategy 2050**, presentations from all WPs of our Competence center were given with the great contribution of our academic partners.

Special thanks go to chairing the session Prof. Mauro Carpita and WP3 for organizing it.

[SCCER-FURIES session](#)

### Lab to the market: Take part in the Start-up Battle

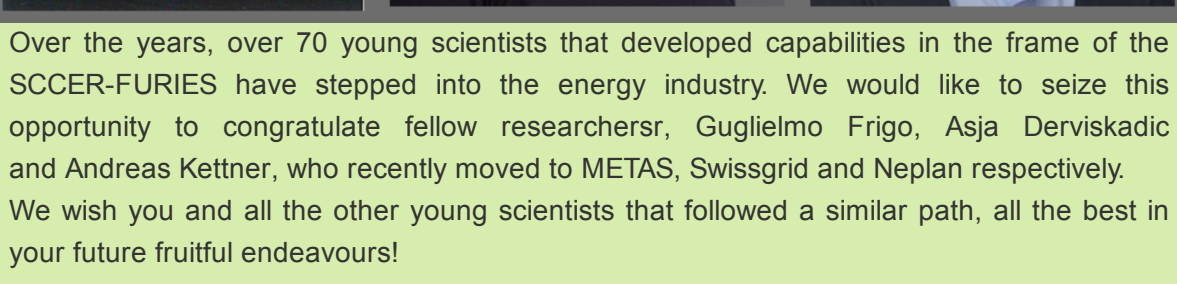
During the **Swiss Digital Days between 1st and 3rd November**, the **Start-up Battle** will take place. The 15 start-ups preselected by Innosuisse will introduce themselves to the public during the Digital Day and go under the voting for the Public award. A jury will select 5 finalists to be invited for the live pitching event at SRF Studios. 3 most innovative solutions to generate sustainable impact will be awarded at the end of the Start-up Battle process.

**Interested?** SCCER-FURIES Management office encourages you to register and take part in the Start-up Battle 2020.

Selection criteria for the 15 start-ups are to be: sustainable impact on climate, society and the greater good; market Potential (problem/solution fit); business model; team; innovation (IP, Magic Sauce).

[Startup Battle Apply now!](#)

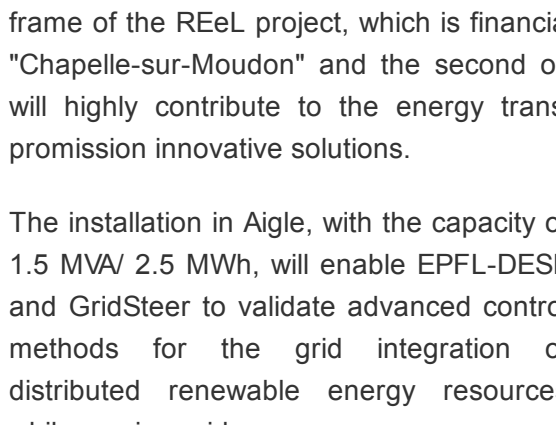
### Lab to the Market: From SCCER-FURIES to the industry



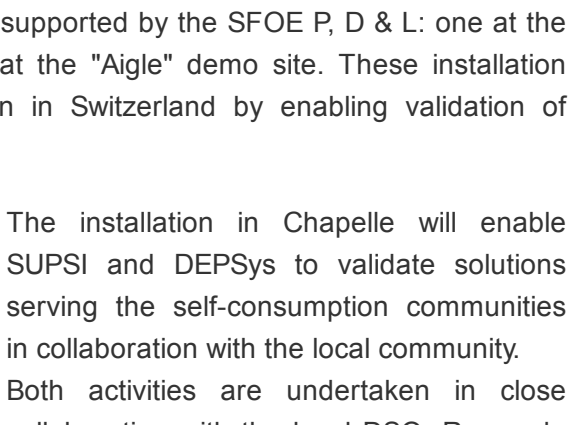
Over the years, over 70 young scientists that developed capabilities in the frame of the SCCER-FURIES have stepped into the energy industry. We would like to seize this opportunity to congratulate fellow researchers, Guglielmo Frigo, Asja Derviskadic and Andreas Kettner, who recently moved to METAS, Swissgrid and Neplan respectively. We wish you and all the other young scientists that followed a similar path, all the best in your future fruitful endeavours!

### Projects progress: The latest achievements of the REeL project

Chapelle-sur-Moudon



Aigle



Two battery energy storage system (BESS) installations have been completed in the frame of the REeL project, which is financially supported by the SFOE P, D & L: one at the "Chapelle-sur-Moudon" and the second one at the "Aigle" demo site. These installation will highly contribute to the energy transition in Switzerland by enabling validation of promising innovative solutions.

The installation in Aigle, with the capacity of 1.5 MVA/ 2.5 MWh, will enable EPFL-DESL and GridSteer to validate advanced control methods for the grid integration of distributed renewable energy resources while serving grid purposes.

The installation in Chapelle will enable SUPSI and DEPSys to validate solutions serving the self-consumption communities in collaboration with the local community. Both activities are undertaken in close collaboration with the local DSO, Romande Energie.

Follow our REeL story on LinkedIn.

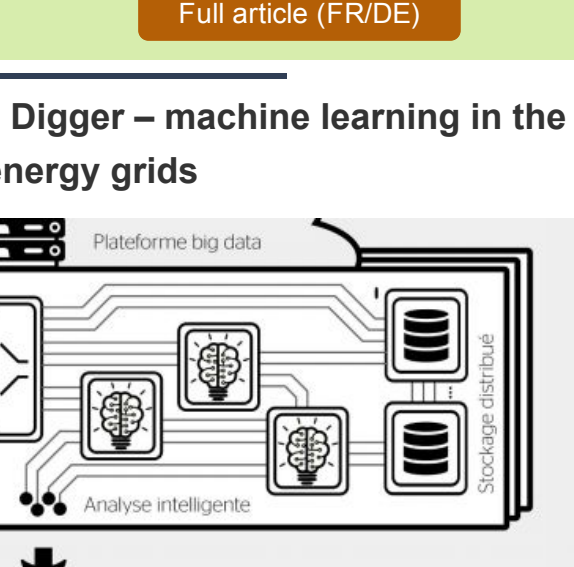
[About the REeL demo](#)

[REeL on LinkedIn](#)

### Projects progress: Smart energy grids as a way towards the future

The operation of the LV network becomes more delicate on both, technical and regulatory levels considering from the one hand the integration into the grid of renewable resources, EV charging stations and decentralised batteries, and from the other hand, decentralised energy market.

Stavros Karagiannopoulos, scientific collaborator at Power System Laboratory at ETH Zurich, investigated in his doctoral thesis how to use flexibilities to make optimal use of the distribution network.

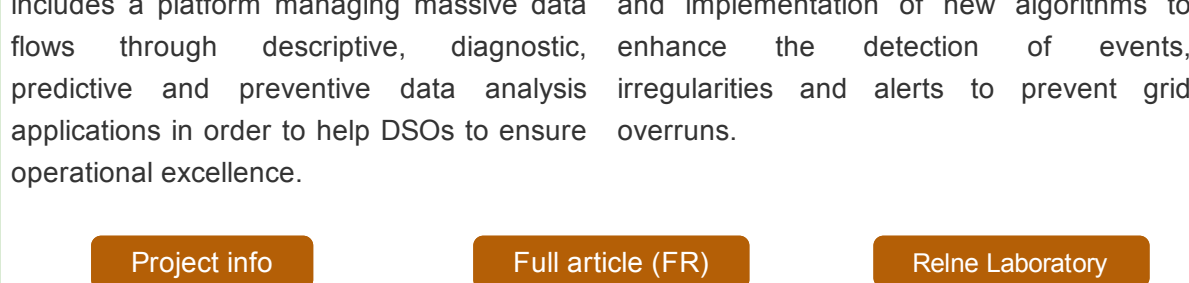


An interesting article on coordination flexible loads and decentralized renewable energies, published recently in VSE Bulletin, describes Stavros' work related to the maintenance cost of the electrical infrastructure.

[PSL - ETH](#)

[Full article \(FR/DE\)](#)

### Projects progress: The Grid Data Digger – machine learning in the service of energy grids



The **Grid Data Digger** project, supported by Innosuisse, has been the focus of a VSE article. This project is undertaken by SCCER-FURIES partners, Prof. Dr Mokhtar Bozorg, and Prof. Dr Mauro Carpita from HEIG-VD, and Dr Omid Mousavi from DEPSys. The solution developed in frames of this project includes a platform managing massive data flows through descriptive, diagnostic, predictive and preventive data analysis applications in order to help DSOs to ensure operational excellence.

The results of the GDD project are validated on a small scale in the Intelligent Network Reine laboratory, with involvement of SCCER-FURIES academic partners from HEIG-VD. The next steps now focus on the validation and application of these results on a large scale, along with the development and implementation of new algorithms to enhance the detection of events, irregularities and alerts to prevent grid overruns.

[Project info](#)

[Full article \(FR\)](#)

[Reine Laboratory](#)

## EVENTS

**Due to measures undertaken in order to constrain spread of COVID-19, most of the events in past months have been postponed. Please find below updated information and some new propositions.**



2nd Global Ministerial Conference on System Integration of Renewables  
27 October 2020; @ held virtually 14:00 - 17:00

SCCER-FURIES Annual Conference  
28 October 2020; @ held virtually

9th DACH+ CONFERENCE ON ENERGY INFORMATICS  
29-30 October 2020; @ Sierre, Switzerland and online

SCCER - SoE Annual Conference  
01 November 2020; @ held virtually

Swiss Digital Days  
01-03 November 2020; @ Innosuisse Start-up Battle

7th SCCER Mobility Annual Conference  
23 November 2020; @ ETH Zurich (ML E-floor)

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



## OPPORTUNITIES

### FUNDING

ERA - 2nd round for the Call for Expression of Interest 2020 for Living Labs and Testbeds for Energy

Deadline: 30.10.2020

SNFS - PRIMA (women researchers)  
Deadline 1.11.2020

SNFS - Ambizione (young researchers)  
Deadline: 01.11.2020

(Innosuisse) Flagship projects  
Deadline: to be defined in 2020

### CAREER

Engineer  
@ EssentialTech Center EPFL

PhD position - Diffusion of innovations in socio-technical energy systems

@ENAC - EPFL

Software Engineer  
@Zaphiro Technologies

Electrical Engineer System Drives  
(80-100%)  
@ABB

## 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

[Read more](#)



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