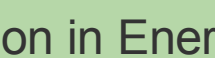


What's New?

Digitaliaztion in Energy Sector:
Trends and Challenges

SCCER-FURIES News&Events

Upcoming events, open positions and
funding opportunities
Stay in touch

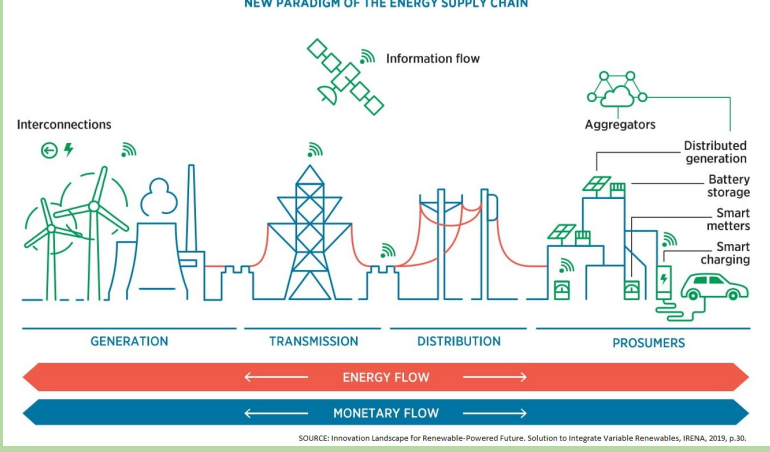


Our article & news

Digitalization in Energy Sector: Trends and Challenges

Switzerland aims to modernize its economy and society by embracing digitalization and furthermore, by taking a leading role in this domain. This requires the development of capabilities that will enable incorporating digitalization in every aspect of Swiss economy. To this end, and following the request of the Federal Council, [the National Action Plan on digitalization for the year 2019-2020](#) has been developed providing tangible actions and specific measures. This plan highly affects research institutions and the direction of energy research. Indeed, the energy infrastructure is pointed out as a critical one of national importance that should be secured from both physical and cyber threats. At the same time, the digitalization action plan resonates with the [Energy Strategy 2050](#), which supports (i) the optimization of the power system over enforcement and (ii) the electrification and decentralization of the energy system through digitalization.

The digitalization of the power infrastructure is not a new idea. The application of digital monitoring and control technologies in the power generation and transmission domains has been an important trend for several decades. What is now new is the extent of digitalization on power system and energy market.



By 2025, 75 billion electrical devices are expected to be connected and sharing data worldwide, providing a wealth of information to consumers, manufacturers and utility providers (Statista, 2018) which opens up vast business opportunities.

Two reports from the International Renewable Energy Agency (IRENA) and the World Economic Forum (WEF) have recently pointed out these aspects. IRENA's report on ["Innovation Landscape for Renewable-Powered Future. Solution to Integrate Variable Renewables"](#) indicates digitalization as a major driver for innovation and solutions of the energy sector challenges. WEF's report on ["Cyber Resilience in the Electricity Ecosystem: Principles and Guidance for Boards"](#) calls for attention to the interconnectivity of the power system, in terms of both grid elements and associated stakeholders. This perspective places the grid in the center of the power system and at the same time, it sets off alarm bells because of what the impact of a breach in the grid, physical or cyber, can have over an entire economy and society.

SCCER-FURIES is well positioned to utilize the opportunities and challenges arising from the digitalization of the power grid. It has the critical mass of capabilities and flexibility to put together new, or adjust existing, activities in order to contribute to digital transformation.

SCCER-FURIES works hand in hand with the national authorities toward this goal.

Stay tuned to FURIES' activities through our [Website](#) and [LinkedIn](#) presence.

SCCER School #2



You are glad to invite you to the 2nd SCCER School for PhD, postdoctoral students and scientific assistants. This School will take place in **Flüeli-Ranft (11-14.06.2019)** and is co-organised by the Management offices of all the SCCERs.

Programme is available [here](#) and more info about the event on [our web page](#).

Registration until 28 of April.

REGISTER NOW

FURIES Thematic Workshop



In the frame of the SCCER-FURIES, HES-SO Fribourg is organizing **WP3 Technical Workshops around the topic "AC/DC multi-terminal grids and power electronics"** due to be held on **16.05.2019**.

If you are working on the topic, you are highly encouraged to participate but don't forget to register by April 26th. [More info](#) about the event is available on [our web page](#).

REGISTER NOW



SCCER-FURIES 2019 Annual Conference

We are glad to invite you to our next Annual Conference of SCCER-FURIES.

In 2019, the SCCER-FURIES conference will take place in **Aarau** on **21st of October 2019**.

Best Paper Awards@ IEEE ROPEC 2018 (Mexico City)



SCCER-FURIES congratulates our partner from Institute of Energy Systems and Fluid Engineering (ZHAW) for receiving the Best Paper Award at IEEE ROPEC 2018. IEEE International Autumn Meeting on Power, Electronics and Computing took place in November 2018 in Ixtapa, Mexico and attracted 250 participants and 100 submitted papers. J. Dobrowolski, and F.R. Segundo from ZHAW in Winterthur, together with partners from UNAM in Mexico City, received the best paper award for their work entitled "Inter-area Oscillation Control Based on Eigensystem Realization Approach".

Check out the awarded paper on [our web page](#).

3rd SCCER-FURIES [Photovoltaic Industry Day](#)



The 3rd SCCER-FURIES Photovoltaic Industry Day, held on January 23rd by the Photovoltaic Laboratory (PV LAB) at BFH in Burgdorf, attracted more than 140 Swiss industry representatives. This series of annual events aims at disseminating results of ongoing applied research conducted by the PV LAB within the SCCER-FURIES.

2019 event focused on current PV application-related trends, such as the optimisation of self-consumption with PV, PV-powered EV stations, and PV applications in practice. More than 20 oral presentations given by PV LAB experts were complemented by lab tours and infrastructure demonstrations, offering possibilities for knowledge exchange and networking.

All presentations can be downloaded [here](#).

Contact: Prof. Urs Muntwyler, Leader PV LAB at BFH (urs.muntwyler@bfh.ch).

Upcoming Events

EVENTS

Please check out the list of upcoming events related to the smart grids and energy markets.

APRIL 2019

[Hydrogen + Fuel Cells EUROPE Hannover Messe](#)

1-5.04. 2019, Hannover, Germany

[2nd International Colloquium on Smart Grid Metrology](#)

9-12.04.2019, Split, Croatia

[Île Verte 2019 - Salon des inventions de Genève](#)

10-14.04.2019, Geneve, CH

[ISGAN Knowledge Exchange on Experimental Sandboxes](#)

1-3.04.2019, Stockholm, Sweden

MAY 2019

[PCIM EUROPE 2019](#)

5-9.05.2019, Nuremberg, Germany

[SCCER FURIES WP3 Workshop "AC/DC multi-terminal grids and power electronics"](#)

16.05.2019,Fribourg, CH (Inscription deadline:26.04)

[20th International Scientific Conference on Electric Power Engineering](#)

15-17.05.2019, Kouty nad Desnou, CZ

[The IEEE International Conference on Smart Grid Synchronized Measurements and Analytics 2019](#)

20-23.05.2019, College Station, Texas, USA

[10th St. Gallen Forum for Management of Renewables Energies](#), 23-24.05.2019, St. Gallen, CH

Funding Opportunities

[\(Marie Skłodowska-Curie\) EuroTechPostdoc Programme](#)

Deadline: 1.04.2019

[\(SNSF\) JSPS Postdoctoral Fellowships 2019](#)

Deadline: 1.04.2019

[\(SNSF\) Project funding](#)

Deadline: 1.04.2019

[\(SNSF&Innosuisse\) BRIDGE Discovery](#)

Deadline 8.04.2019

[\(NAWA\) The Ulam Programme – POSTDOCTORAL RESEARCH GRANTS](#)

Deadline: 23.04.2019

[\(SNSF\) R'Equip grants](#)

Deadline: 15.05.2019

[\(Humboldt Foundation\) Post Doc Fellowship](#)

Deadline: 15.05.2019

[\(SNSF&COST\) COST projects in Switzerland](#)

Deadline: 04.06.2019 (preregistration 6.05.2019)



JUNE 2019

[SCCER School #2: Shaping the Energy Transition](#)

11-14.06.2019, Flüeli-Ranft, CH

[Le Festival International des innovations vertes](#)

19-22.06.2019, Annecy, FR

JULY 2019

[SCCER-HaE Summer School](#)

30.06-05.07.2019, Beatenberg, CH

SEPTEMBER 2019

[CISBAT 2019 International Scientific Conference](#)

04-06.09.2019 in Lausanne, CH

[International Workshop DynPOWER Dynamic Stability Challenges of the Future Power Grids](#)

16.09.2019, Winterthur, CH



JOBS

Ph.D. Position - Modelling, optimising and designing advanced pulse generators for future accelerator systems @ ETH HPE, Zurich

Ph.D. Position - Modelling and optimising advanced magnetic devices for future railway/traction systems @ETH HPE, Zurich

Postdoc Researcher in data-driven modelling and control @SUPSI, Manno

Projektingenieur/in für integrale Energie und Speicherlösungen @EKZ, Dietikon

Projektleiter/in Erneuerbare Energien 80-100% @EKZ, Dietikon

Several positions (Smart Metering/ Smart Grid) @Sollberger Ingenieure GmbH, Bern

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 opportunities and current events.

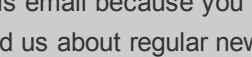
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Knowledge Hub

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You will find information on Partners, Projects and Projects' Outcomes on our Knowledge Hub

Read more



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