



## Joint Activity Scenarios & Modeling (JASM)

# 1<sup>st</sup> National scenario benchmarking workshop

17 Jan 2019, ETH Zurich, ML F36, Tannenstrasse 3, 8006 Zurich

In 2017 the modelling teams from all eight Swiss Competence Centers for Energy Research joined forces to generate scenarios for the future Swiss energy system. Early 2019 we want to present and discuss first results within a 1<sup>st</sup> national scenario benchmarking workshop. We invite the research community as well as representatives from industry, politics and the general public to contribute their own results, views and critical feedback.

The scope of the JASM project – and the workshop – is the future configuration of the energy system, i.e. the supply and consumption of electricity, heat and mobility services. Two major objectives for the future development are set, namely the discontinuation of nuclear electricity generation and the target to reduce greenhouse gas emissions. In line with international commitments and the goals of the Energy Strategy 2050 we set the target to 10 MtCO<sub>2</sub>/a in 2050, a substantial reduction from today's 36 MtCO<sub>2</sub>/a.

We invite presenters to give answers to one or more of the following questions:

1. What is the optimal technology mix to reach the 2050 emissions target?  
*What is the role of storage? How to address seasonality in supply and demand? Autarky or free flow of energy through Europe? How to use biomass? Etc.*
2. Which transitional measures are most effective to get there?  
*Is a CO<sub>2</sub> price the right tool? How to set the price? What about subsidies? Shall we ban certain technologies? Etc.*
3. What are the major impacts on economy and society?  
*Monetary costs to society? Shift from fuel consumption to investments? Land use, quality of life?*

We encourage a wide range of contributions including (non-exclusively): full energy system models producing national energy balances and assessing system-wide climate and energy policies; system integration and sector coupling; sectoral models showing f.i. the development of heat demand from buildings, or the options to decarbonize the mobility sector; test cases on how national targets can be realized at a neighbourhood level; the stability of future transmissions and distribution grids and options to increase system flexibility; electricity and energy market designs and regulations; prosumers; social and behavioural aspects; socioeconomics of the transformation of the energy system; feasibility of large scale-investments such as hydrogen economy; energy and finance; disruptive innovations, etc.

The workshop will feature a full day of technical presentations concluded by a round table discussion and an Aperó. Please register via our webpage [www.sccer-iasm.ch/events](http://www.sccer-iasm.ch/events). Presenters are invited to submit a short abstract by 30 Nov 2018. For any queries please contact [info@sccer-iasm.ch](mailto:info@sccer-iasm.ch).