

ETH zürich



Summer School 2023

Energy Technology, Policy and Politics – How to Build a Net-Zero GHG Emissions Energy System

27 August - 1 September 2023
Monte Verità, Ascona, Switzerland



ISTP

Institute of Science, Technology and Policy
Institut für Wissenschaft, Technologie und Politik

More information



SCOPE OF THE SUMMER SCHOOL

The Energy Technology, Policy and Politics Summer School will provide for the first time a comprehensive overview of the technical, socioeconomic and political challenges and opportunities of creating a sustainable energy supply for the future, under the premise of net-zero (or even negative) greenhouse gas (GHG) emissions. The aim of the summer school is to address the following questions from a technical, economic and policy perspective:

- How does the energy supply system function today and potentially in the future?
- What are the main challenges and opportunities in achieving a net-zero GHG emissions energy supply system?
- How can needed investments in the energy system be realized?
- How can policy accelerate the transition to a net-zero energy system?
- How can political ambition be increased and how can such accelerating policies be implemented?

The school will enable young scientists to contribute towards the transformation and decarbonization of the energy system, which will ultimately help solve the challenge of climate change.

PROGRAMME

The scientific programme strongly builds on inputs from renowned experts and will create space to develop strategies and test ideas. The nature of the topic is highly interdisciplinary and addresses researchers from the engineering, natural as well as social sciences. Participants will actively take part in workshops that allow them to dive into relevant scientific aspects more deeply. The five-day summer school is structured around keynote lectures, poster sessions, workshops and a concluding panel discussion involving lecturers and participants.

The summer school is organized back-to-back with the Swiss Climate Summer School “Climate-Water-Energy-Food Nexus”, which will take place 3 - 8 September 2023 (climateresearch.ch). This allows interested participants to attend both schools and provides them with a broader perspective of the tightly-interwoven energy and climate change challenges.

CONFIRMED LECTURERS

Prof Dr. Heleen de Coninck (TU/e, NL)

Prof. Dr. Gabriela Hug (ETH Zurich, CH)

Prof. Dr. Øystein Ulleberg (IFE, NO)

Dr. Christian Schaffner (ETH Zurich, CH)

Prof. Dr. Arno Schlüter (ETH Zurich, CH)

Prof. Dr. Tobias Schmidt (ETH Zurich, CH)

Prof. Dr. Jan Steckel (MCC, DE)

Prof. Dr. Bjarne Steffen (ETH Zurich, CH)

Prof. Dr. Massimo Tavoni (PoliMI, IT)

APPLICATION

The school is open to early-stage researchers (PhD and postgraduate students) from around the world, who want to gain an in-depth understanding of the energy sector. Participation is highly competitive and the total number of participants is limited. The registration fee is 380 CHF and the estimated costs for full board accommodation, excursion, and teaching materials are approximately 1000 CHF. Successful applicants will be notified in April 2023. More information about the application process can be found on our website: esc.ethz.ch/education/summer-school-2023.

