

A portrait of Professor Russell McKenna, a man with short dark hair, wearing a light blue blazer over a white shirt. He is standing on a balcony with a metal railing, looking slightly to the right with a gentle smile. The background shows a cityscape with buildings and a body of water under a clear sky.

Professor Russell McKenna

«Energy systems pervade human societies – we rely on them without even realizing it. This makes my research into low-carbon energy systems varied, but also very challenging, with diverse technologies, stakeholders and trade-offs.»

Energy Systems Analysis

Institute of Energy and Process Engineering

Will you rise to the challenge of providing decision support for sustainable future energy systems? The energy transition is a complex multi-faceted task involving many technologies, stakeholders, impacts and their interactions. By combining quantitative and qualitative methods, we provide scientifically grounded decision support for energy systems. With tangible examples and humour, I motivate students with my own passion for the subject.

Focus

- Assessing potentials for low-carbon technologies
- Understanding the socioeconomic diversity of energy demand
- Analysing sector coupling and energy system integration
- Developing fundamental and applied energy system models

About the lab

- Strong link to the PSI Lab for Energy Systems Analysis
- Holistic perspective across all technologies
- At the interface of engineering and economics
- Young team of scientists with diverse backgrounds

Further details online:

www.esa.ethz.ch

www.psi.ch/lea

