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.

Professor Russell McKenna
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