

Evelina Trutnevyte: In search of analytically sound and socially viable energy strategies

Climate change, environmental and resource degradation, supply security, public safety and other challenges require a fundamental energy transition in Switzerland and worldwide. In order to be successful, this transition needs to strike the balance between analytically sound and socially viable options. In my presentation, I will show how energy systems modelling, energy technology assessment, and elicitation of societal preferences could be combined in order to find this balance. I will illustrate my arguments with three case studies: (i) ex-post and ex-ante modelling of the UK electricity sector transition, (ii) international expert elicitation on induced seismicity by Enhanced Geothermal Systems, and (iii) model-based elicitation of informed public preferences for the Swiss electricity generation. I will conclude with future research agenda that opens up analytically sound and socially viable pathways for energy transition.