



NAVIGATING THE ROADMAP FOR CLEAN, SECURE AND EFFICIENT ENERGY INNOVATION

Call for papers

(Special Issue in *Utilities Policy*)

on the topic

**"The challenges of temporal and spatial aggregation: Modelling
and policy implications"**

Abstract Deadline: 15th Oct, 2017



Call for papers

"The challenges of temporal and spatial aggregation: Modelling and policy implications"

Abstract Deadline: 15th of October, 2017

(Extended Abstract, 400 – 800 words)

Final Submission: 30th of November, 2017

The SET-Nav project (www.set-nav.eu), coordinated by the EEG at TU Wien, is announcing a

Call for papers

"The challenges of temporal and special aggregation: Modelling and policy implications"

to be published in a special issue in Utilities Policy.

The EU's energy, innovation, and climate challenges define the direction of the future energy system, but specific pathways are policy-dependent and need careful comparative evaluation. Accurate modelling plays a crucial role to understand, build, and optimize the future energy system. However, as a considerable challenge, modelling distinct aspects of the energy system requires different timescales, and, for example, a second-by-second energy balance is needed in the power sector, while decades are considered when analysing climate or environmental changes.

The topic **"The challenges of temporal and spatial aggregation: Modelling and policy implications"** deals with challenges that arise from the aggregation of information from detailed power sector models for the further use in large-scale energy system or integrated assessment models. The issue accounts for the increased complexity modern electricity grids face due to the integration of stochastic renewable generation and necessary demand side management.

The contributions to the special issue shall highlight this topic from various perspectives, including, for example, the identification of determinants of electricity demand and their appropriate modelling, and the representativeness of models with reduced complexity. Overall, abstracts should include modelling papers as well as applications in model expansion / integration that may serve to assess future policy pathways up to 2050.

About the SET-Nav Modelling Forum and the IAEE post-conference workshop

The call for papers is connected to the upcoming IAEE post-conference workshop on this topic as part of the SET-Nav Modelling Forum (<http://www.set-nav.eu/content/pages/modelling-forum>), coordinated by DIW Berlin (<http://www.diw.de/en>). In five workshops on different modelling challenges, state-of-the-art and innovative modelling approaches and their applications are presented and discussed to disseminate them to a larger audience in energy economics and facilitate knowledge exchange between modellers. One goal of the SET-Nav Modelling Forum is the development of more holistic models that are more capable to answer the

research questions of the future, by assessing the caveats of existing approaches and finding strategies to overcome the current limitations. We discuss best-practice examples and, whenever necessary, formulate and test alternative modelling approaches.

For submissions, please contact submissions@set-nav.eu

For any questions please contact contact@set-nav.eu

Project duration:	April 2016 – March 2019
Funding programme:	European Commission, Innovation and Networks Executive Agency (INEA), Horizon 2020 research and innovation programme, grant agreement no. 691843 (SET-Nav).
Web:	www.set-nav.eu
General contact:	contact@set-nav.eu

About the project

SET-Nav aims for supporting strategic decision making in Europe's energy sector, enhancing innovation towards a clean, secure and efficient energy system. Our research will enable the European Commission, national governments and regulators to facilitate the development of optimal technology portfolios by market actors. We will comprehensively address critical uncertainties facing technology developers and investors, and derive appropriate policy and market responses. Our findings will support the further development of the SET-Plan and its implementation by continuous stakeholder engagement.

These contributions of the SET-Nav project rest on three pillars: modelling, policy and pathway analysis,

and dissemination. The call for proposals sets out a wide range of objectives and analytical challenges that can only be met by developing a broad and technically-advanced modelling portfolio. Advancing this portfolio is our first pillar. The EU's energy, innovation and climate challenges define the direction of a future EU energy system, but the specific technology pathways are policy sensitive and need careful comparative evaluation. This is our second pillar. Ensuring our research is policy-relevant while meeting the needs of diverse actors with their particular perspectives requires continuous engagement with stakeholder community. This is our third pillar.

Who we are?

The project is coordinated by Technische Universität Wien (TU Wien) and being implemented by a multinational consortium of European organisations, with partners from Austria, Germany, Norway, Greece, France, Switzerland, the United Kingdom, France, Hungary, Spain and Belgium.

The project partners come from both the research and the industrial sectors. They represent the wide range of expertise necessary for the implementation of the project: policy research, energy technology, systems modelling, and simulation.

