

AGENDA

SET-Nav Modelling Workshop in Vienna, Austria

Aggregating load profiles from power sector models towards use in large-scale energy-system and integrated assessment models

Thursday, 7, September, 2017

Campus Freihaus - D Vortragsraum Bibliothek, DD
Wiedner Hauptstr. 8, 1040 Vienna, Austria

8:45 - 9:00	REGISTRATION
	Welcome by Marijke Welisch, TU Wien
9:00 – 9:30	Overview of the SET-Nav modelling workshop series by Dawud Ansari, DIW
	Overview of load aggregation in the SET-Nav project, Michael Hartner, TU Wien
9:30 - 10:15	Introduction: Review on aggregated electricity demand modelling (hourly) for use in long term power system analysis , Karen Byskov Lindberg, NVE
10:15 – 11:00	A novel method for incorporating power exchange limitations into energy system models and the impact of spatial aggregation , Karl-Kiên Cao, DLR
11:00 - 11:30	COFFEE BREAK
11:30 - 12:15	A parsimonious model for the complex German electricity system – what lessons to be learnt , Philip Beran, University Duisburg Essen
12:15 - 13:00	A simple approach to time series reduction - application in the model dynELMOD , Clemens Gerbaulet, DIW
13:00 - 14:00	LUNCH BREAK
14:00 - 14:45	Methodology for long term hourly electric load modelling taking into account building refurbishment, electric heating and climatic stochasticity , Karen Byskov Lindberg, NVE
14:45 - 15:30	People’s activities and residential electricity demand: A time use approach , Jacopo Torriti, University of Reading
15:30- 15:45	COFFEE BREAK
15:45 - 16:30	synPRO tool and other activities , Bernhard Wille-Hausmann, Fraunhofer ISE
16:30 -17:00	Discussion time
17:00	END OF WORKSHOP



SET-Nav at a glance

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

These contributions of the SET-Nav project rest on three pillars:

The wide range of objectives and analytical challenges set out by the call for proposals can only be met by developing a broad and technically-advanced **modelling portfolio**. Advancing this portfolio and enabling knowledge exchange via a modelling forum 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. Using our strengthened **modelling capabilities** in an integrated modelling hierarchy, we will analyse multiple dimensions of impact of future pathways: **sustainability, reliability** and **supply security, global competitiveness** and **efficiency**. This analysis will combine bottom-up 'case studies' linked to the full range of SET-Plan themes with holistic 'transformation pathways'.

Stakeholder dialogue and **dissemination** is the third pillar of SET-Nav. We have prepared for a lively stakeholder dialogue through a series of events on critical SET-Plan themes. The **active involvement** of stakeholders in a two-way feedback process will provide a reality check on our modelling assumptions and approaches, and ensure high policy relevance. Our aim is to ensure policy and market actors alike can navigate effectively through the diverse options available on energy innovation and system transformation.

SET-Nav partners

No	Participant Name	Country Code
1	Technische Universität Wien, Energy Economics Group (<i>TU Wien</i>)	AT
2	Fraunhofer-Institut für System- und Innovationsforschung (<i>Fraunhofer ISI</i>)	DE
3	Deutsches Institut für Wirtschaftsforschung (<i>DIW Berlin</i>)	DE
4	Norges teknisk-naturvitenskapelige universitet i Trondheim (<i>NTNU</i>)	NO
5	Stiftelsen SINTEF (<i>SINTEF</i>)	NO
6	Société Européenne d'EConomie (<i>Seureco</i>)	FR
7	Universidad Pontificia Comillas (<i>Comillas</i>)	ES
8	National Technical University of Athens (<i>NTUA</i>)	GR
9	Regional Center for Energy Policy Research (<i>REKK</i>)	HU
10	Centre for European Policy Studies (<i>CEPS</i>)	BE
11	University of East Anglia (<i>UEA</i>)	UK
12	Eidgenössische Technische Hochschule Zürich (<i>ETH</i>)	CH
13	Axpo Services AG (<i>Axpo</i>)	CH
14	General Electric (<i>GE</i>)	CH
15	International Institute for Applied Systems Analysis (<i>IIASA</i>)	AT
16	M-Five GmbH Mobility, Futures, Innovation, Economics (<i>M-Five</i>)	DE