

AGENDA

SET-Nav Modelling Workshop

Top-Down Bottom-Up Hybrid Modelling

Thursday - Friday, **24 - 25, November, 2016, 8.30-17.30**

Venue: Norwegian University of Science and Technology (NTNU)
Høgskoleringen i, 7491, Trondheim, Klæbuveien 72, Norway

Opening Dinner: Wednesday, 23th

8:30 - 9:00	<i>Dinner at restaurant Nyfiken, Beddingen 16 (@Solsiden), 7014, Trondheim</i>
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Day 1: Thursday, 24th

8:30 - 9:00	<i>Welcome and Introduction by Franziska Holz (coordinator) and Ruud Egging (host)</i>
9:00 - 12:00	Energy-Economy Models – Integration and Decomposition, by Christoph Böhringer, Oldenburg University
12:00 - 13:00	<i>Lunch</i>
13:00 - 15:30	Bottom-up/ Top-down modelling – Applied aspects and large scale applications, by Jan Abrell, ETH Zurich
15:30 - 16:00	<i>Coffee Break</i>
16:00 - 18:00	Hybrid modelling – Some practical applications - Tentative, by Ulrich Fahl, Stuttgart University
19:00	<i>Dinner at restaurant Tulla Fischer. Kongens gate 9, 7011, Trondheim</i>

Day 2: Friday, 25th

8:30 - 9:30	Hard-linking a regional CGE REMES and Energy Systems Model TIMES, by Per Ivar Helgesen, NTNU & Gerardo Perez-Valdes, SINTEF Technology and Society
9:30 - 9:45	<i>Coffee Break</i>
9:45 - 10:45	Area-based decomposition of energy system model, by Phillip Haertl, Fraunhofer IWES
11:00 - 12:00	Round Table discussion: Future research directions in hybrid modelling (Jan Abrell, Ulrich Fahl, Per Ivar Helgesen, Franziska Holz)
12:00 - 13:00	<i>Lunch</i>
12:00	END OF THE 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	Vienna University of Technology, Energy Economics Group (<i>TU Wien</i>)	AT
2	Fraunhofer-Institut für System- und Innovationsforschung (<i>Fraunhofer</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 for industriell og teknisk forskning ved NTH (<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