Navigating the Roadmap for Clean, Secure and Efficient Energy Innovation





SET-Nav Modelling Forum: Two-stage decision-making in energy markets

Welcome talk

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THE MODELLING FORUM



- SET-Nav aims at pushing the state-of-the-art of energyeconomic-engineering modelling.
- Various different approaches are present in the project consortium.
- The SET-Nav Modelling Forum is a series of workshops on selected current issues in modelling, with the following aims:

Development of holistic models

Overcome modelling limitations

Studying bestpractice examples

Transparency and openness in applied modelling (H2020 goal)

Open platform for exchange





OUR PROGRAM





Top-Down Bottom-Up Hybrid Modeling

November 2016 (past)
NTNU Trondheim



Modelling of Risk & Uncertainty in Energy Systems

March 2017 (past)
ETH Zurich



Aggregating load profiles

September 2017 (past)
TU Vienna



Upcoming network challenges

September 2018 (past)
Comillas University



Two-stage decision making and modelling for energy markets

October 2018 (today)

DIW Berlin





AGENDA



8:30 - 9:00	REGISTRATION
9:15– 11:00	Session I: Multilevel equilibrium modelling –
	Basics and advances
11:00 – 11:20	COFFEE BREAK
11:20 – 13:20	Session II: Applications for electricity
13:20 – 14:00	LUNCH BREAK
14:00 – 16:00	Session III: Applications for resources
16:00 – 16:20	COFFEE BREAK
16:20 – 18:20	Session IV: The broader frame
18:15	END OF THE WORKSHOP
From 18:30	EVENING RECEPTION





AGENDA (CONT'D)



		14:00 – 16:00	SESSION III: Applications for resources
8:30 - 9:00	REGISTRATION	14:00 – 14:40	Inconsistent policies in an MPEC framework Olivier Massol (ifp School)
9:00 – 9:10	Welcome and introduction Dawud Ansari (<i>DIW Berlin / EADP</i>) & Franziska Holz (<i>DIW Berlin</i>)	14:40 – 15:20	A new game theoretical approach for modeling export energy market equilibria
9:10 – 9:15	9:15		Ibrahim Abada (Engie, Center of Expertise in Economic Modeling and Studies)
	Marijke Welisch (TU Wien / DIW Berlin)		Multi-objective bi-level optimization problem for the investment in
9:15–11:00	SESSION I: Multilevel equilibrium modelling – Basics and advances	15:20 – 16:00	new gas infrastructures Aurora del Valle Díez (Comillas Pontifical University)
9:15 – 11:00	An introduction to (multilevel) equilibrium modelling Sauleh Siddiqui (Johns Hopkins University)	16:00 – 16:20	COFFEE BREAK
11:00 – 11:20	COFFEE BREAK	16:20 – 18:20	SESSION IV: The broader frame
11:20 – 13:20	Session II: Applications for electricity	16:20 – 16:55	Bargaining power in networks: a cooperative game theory approach
11:20 – 12:00 mitigate distribution grid requires systems	Modeling coordination between renewables and grid: Policies to		Franz Hubert (Humboldt University Berlin)
	•	16:55 – 17:30	Convex formulations for equilibrium & bi-level problems Ruud Egging (NTNU)
	Paul Neetzow (Humboldt University Berlin)		Panel discussion:
12:00 – 12:40	Network Expansion to Mitigate Market Power Alexander Zerrahn (DIW Berlin)		Panel discussion: Which road for applied modelling – scientific excellence or policy communication?
12:00 – 12:40 12:40 – 13:20	Network Expansion to Mitigate Market Power Alexander Zerrahn (DIW Berlin) Least-cost distribution network tariff design in theory and practice	17:30 – 18:15	Which road for applied modelling – scientific excellence or policy
	Network Expansion to Mitigate Market Power Alexander Zerrahn (DIW Berlin)	17:30 – 18:15	Which road for applied modelling – scientific excellence or policy communication? Moderation:

18:15

From 18:30





Sauleh Siddiqui (Johns Hopkins University) Marijke Welisch (TU Wien / DIW Berlin)

EVENING RECEPTION

END OF THE WORKSHOP

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Thank you!

WP Lead

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