

WINTER 2022 SEMI-ANNUAL ETSAP MEETING

Program *(as of 10 November 2022)*
(All times are Eastern Time Zone)

Dates: 1st – 2nd December 2022

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The workshop will be held as a hybrid event. The physical meeting will take place at:
Columbia Univ. Faculty House, 64 Morningside Dr, New York, NY 10027, USA.

For the online participation details will be shared before the workshop.

28 NOVEMBER - 30 NOVEMBER 2022, 09:00 - 17:00 EST

In-person TIMES Training sessions (<https://iea-etsap.org/index.php/training>)

THURSDAY 1ST DECEMBER 2022 (08:30-17:00 EST)

ETSAP Regular Workshop Day 1

FRIDAY 2ND DECEMBER 2022 (08:30-13:00 EST)

ETSAP Regular Workshop Day 2

FRIDAY 2ND DECEMBER 2022 (14:00-17:00 EST)

ETSAP Executive Committee

(Participation restricted to ETSAP Delegates, officers, and invited experts)

Agenda and attachments are sent separately

**THURSDAY 1ST DECEMBER 2022****REGULAR ETSAP WORKSHOP****08:45 - 09:00 WELCOME**

Prof. Brian Ó'Gallachóir, ETSAP ExCo Chair
 Dr Melissa Lott, Senior Research Scholar and Director of Research at the Center on Global Energy Policy (CGEP), Columbia University.
 Prof. Sauleh Siddiqui, US Energy Information Administration

09:00 - 09:10 KEYNOTE ADDRESS

Why models are important to policymakers
David Turk - Deputy Secretary, U.S. Department of Energy (via ZOOM)

09:10-11:00 SESSION 1: ENERGY MODELLING IN THE USA (DRAFT)

Chair: Prof. Brian Ó'Gallachóir, ETSAP ExCo Chair, & Co-Director of MaREI, SFI center for energy climate and marine, IRELAND

Incorporating the Inflation Reduction Act Provisions into NEMS
 Sauleh Siddiqui, EIA, USA

USEPA9rT whole energy system decarbonization scenario analysis in the Energy Modelling Forum
 Carol Lenox, Environmental Protection Agency, USA

Electrification on the Path to Net Zero: A Comparison of Pathways Examining Opportunities and Barriers in the United States
 Dr James Glynn, Center on Global Energy Policy, Columbia University SIPA, USA

Energy, Industry, and Economy Models, Submodules, and Linkages
 Max Brown, National Renewable Energy Laboratory, USA

11:00-11:30 COFFEE BREAK**11:30-13:00 SESSION 2: TRANSITION TO CARBON NEUTRALITY**

Chair: Kari Espegren

Transition pathways as “inter-disciplinary meeting place”
 Ms. Kristina Haaskjold, IFE, Norway

Meta-review of the 2050 carbon-neutral scenarios in Korea from various organizations
 Dr. Nyun-Bae Park, Korea Institute of Energy Research, Korea

Introducing GEO-TIMES: A new open source global TIMES model
 Prof. Brian O Gallachoir, UCC, Ireland

13:00-14:00 LUNCH**14:00-15:00 SESSION 3: EARLY-STAGE MODELERS**

Chair: Anna Krook-Riekkola

Model-based energy and emission analysis of ammonia production for improved process sustainability
 Dr. Banafsheh Jabarivelisdeh

Modelling circular economy in the Spanish pulp and paper industry
 Alberto Perula, PhD student at CIEMAT

Evaluating the Effects of Municipal Ordinances on Building Emission Profiles via Econometrics-Based Demand Forecasting and City-Level Modelling: A Case Study on New York City
 Stephanie Wilcox, PhD student, Johns Hopkins University

15:00-15:30 COFFEE BREAK

**15:30-17:00 SESSION 4: NATIONAL MODELLING ANALYSIS****Chair: James Glynn****Winners and losers of end-use flexibility in the Norwegian energy system**

Dr. Pernille Seljom, IFE, Norway

Detailed modelling of existing and new biogas plants in Denmark

Ms. Ida Græsted Jensen, Energy Modelling Lab, Denmark

Exploration of cross-sector emissions benefits of medium- and heavy-duty vehicle electrification using EPAUS9rT-TIMES model

Dr. Ozge Kaplan, USEPA, USA

Using the TIMES-Ireland Model (TIM) to understand Ireland's Carbon Budget implementation gap

Prof. Hannah Daly, UCC, Ireland

FRIDAY 2ND DECEMBER 2022 (08:30-13:00)**REGULAR ETSAP WORKSHOP****8:30-9:30 SESSION 5: DISCUSSION ON THE WORKPROGRAMME OF ANNEX XVI****Chair: Brian O Gallachoir****09:30 - 10:30 SESSION 6: PROJECT PROPOSALS PRESENTATION****Chair: G. Giannakidis****5 minutes presentation each****TIMES Cloud Service**, Frederik Fiand**Capacity investments as input to high resolution runs**, Energy Modelling Lab**ETSAP TIAM Documentation and Validation**, Markus Blesl**Open Source TIMES Excel Reader**, Olexandr Balyk**Modelling of the industry sector & material efficiency**, Markus Blesl**Review of the TIMES code in GAMS to identify areas for performance improvements**, Evangelos Panos**TIMES extension for electricity, gas, hydrogen and CO 2 transport infrastructures**, Evangelos Panos**Third ETSAP Book: Energy Systems Models and Sustainable Development Goals**, Maryse Labriet**Veda online for ETSAP contracting parties**, Amit Kanudia**Free online Veda-TIMES platform for students**, Amit Kanudia**10:30-11:00 COFFEE BREAK****11:00 - 12:00 SESSION 7: HYDROGEN AND SYN FUEL MODELLING****Chair: Pernille Seljom****Global Renewable Hydrogen Potentials for the TIAM Model**

Mr. David Franzmann, Research Center Juelich GmbH

Global Hydrogen and Synfuel exchanges in an emission free energy system

Mr. Felix Lippkau, IER University of Stuttgart

Modelling challenges for Hydrogen and Synfuel pathways in Europe

Mr. Drin Marmullaku, IER University of Stuttgart

12:00 - 13:00 SESSION 8: TOOLS DEVELOPMENT**Chair: Ozge Kaplan****Veda online - a new tool for collaboration and dissemination**

Dr Amit Kanudia, KANORS.

Supporting energy scenario development process using Github and modern web technologies

Dr. Olexandr Balyk, University College Cork.

13:00-14:00 LUNCH