

## SUMMER 2024 SEMI-ANNUAL ETSAP MEETING

Program (as of 06 June 2024)  
(All times are CET)

Dates: 24<sup>th</sup> – 25<sup>th</sup> June 2024

Contacts: Kathleen Vaillancourt <kathleen@esmia.ca>

The workshop will be held as a hybrid event.

The workshop venue: IRENA Innovation and Technology Centre, Thomas-Dehler-Haus, Willy-Brandt-Allee 20, Bonn, Germany.

For the online participation a zoom-link will be shared before the workshop.

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**MONDAY 24<sup>TH</sup> JUNE 2024 (09:00-17:00 CET)**

**ETSAP Regular Workshop Day 1**

**TUESDAY 25<sup>TH</sup> JUNE 2024 (09:30-13:00 CET)**

**ETSAP Regular Workshop Day 2**

**TUESDAY 25<sup>TH</sup> JUNE 2024 (14:00-17:00 CET)**

**ETSAP Executive Committee**

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

Agenda and attachments are sent separately

**26<sup>TH</sup>- 28<sup>TH</sup> JUNE 2024 (09:00-16:00 CET)**

**Basic training course on VEDA-TIMES**

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## MONDAY 24TH JUNE 2024 (09:00-17:00 CET)

### REGULAR ETSAP WORKSHOP DAY 1

#### 09:00 - 09:05 WELCOME

IRENA .  
Prof. O'Galachoir, ETSAP Chair

#### 09:05-11:00 SESSION 1A: TOOLS A

**Chair: tbc**

**Automated TIMES reporting: A generic tool for effective reporting and linking TIMES models**  
Dr. Kristoffer Steen Andersen, Energy Modelling Lab

**A cutting-edge approach to results processing and visualisation for efficient decision making: a case study on maritime decarbonization pathways**  
Ms. Kathleen Vaillancourt, Ms. Marie Pied, ESMIA Consultants

**Expanding TIMES with Metadata: VEDA metadata integration and semantic classification of results**  
Mr. Bart Van Brabant, VITO Energyville

**Veda applications update**  
Dr. Amit Kanudia, KanORS-EMR

**Veda Online as a collaborative tool for exploring global energy scenarios.**  
Mr. Olivier Durand-Lasserve, KASPARC

**xl2times & Enhancements and New Features in TIMES-MIRO App v1.2**  
Dr. Olexandr Balyk, Columbia University

*(20 mins each)*

#### 11:00-11:20 COFFEE BREAK

#### 11:20-12:00 SESSION 1B: TOOLS B

**Chair: tbc**

**Open-Source Workflows for Energy System Optimization Models: Learning from Experiments**  
Prof. Tarun Sharma, Indian Institute of Technology, Roorkee

**Maximize Impact: Learn from the Dual Pillars of Open-Source Energy Planning Tools like PyPSA**  
Dr. Maximilian Parzen, Open Energy Transition

*(20 mins each)*

#### 12:00-13:00 SESSION 2: MODEL COUPLING

**Chair: tbc**

**Integrating Long-Term Energy System Planning with Detailed Power Sector Modelling: A Case Study of TIMES & IRENA FlexTool 3.0**  
Mr. Ioannis Vrochidis, E4SMA

**Combined use of TIMES and CGE models to explore methodological issues related to the economic implication of decarbonization pathways**  
Francesco Gracceva, Bruno Baldissara, Vittoria Battaglia, Livio De Chicchis, Daniela Palma (ENEA)  
Gionata Castaldi, Marco Manzo, Maria Teresa Monteduro, Carlo Orecchia, Vera Santomartino (Ministry of Economy and Finance)

*(20 mins each)*

#### 13:00-14:00 LUNCH

#### 14:00-15:40 SESSION 3: GLOBAL TECHNOLOGICAL OPTIONS

**Chair: tbc**

**What are we likely on track for? The use of Monte Carlo Analysis in an integrated global energy system and temperature modeling framework.**

Mr. Mahmoud Mobir, Rhodium Group

**Additional Cost of Biomass Reallocation in NATEM**

Mr. Etienne Bernier, Natural Resources Canada

**Feasibility, conditions, and opportunities for achieving net-negative emissions in the global cement industry**

Mr. Lucas Desport, Mines Paris – PSL

**From Theory to Practice: Modeling Biomass Supply and Carbon Dioxide Removal for Climate Goals**

Ms. Sophie CHLELA, Mines Paris-PSL, Centre for Applied Mathematics

**The cost-competitiveness of offshore hydrogen electrolysis in the North Sea**

Ms. Kari Aamodt Espegren, IFE

*(20 mins each)*

**15:40-16:00 COFFEE BREAK**

**16:00-17:00 SESSION 4: GLOBAL TOPICS**

**Chair: tbc**

**Critical Minerals, Electric Goods, and the Global Energy Transition**

Prof. Emilson Silva, University of Auckland

**Potential transformation and impacts of solar PV global supply chain**

Dr. Can Cui, ETH Zurich

**Managing Crisis and Energy**

Ms. Kanwal Shahzadi, UNDP

*(20 mins each)*

**TUESDAY 25<sup>TH</sup> JUNE 2024 (09:00-13:00 CET)**

**09:00 - 11:00 SESSION 5: CITY LEVEL AND NATIONAL MODELS**

**Chair: tbc**

**CITY LEVEL MODELLING**

**Application of COMET (City-based Optimization Model for Energy Technologies) to NYC's Climate Budgeting Efforts**

Dr. Ozge Kaplan US EPA

**Integrated Assessments of City Energy Systems: City Planning vs. National Targets**

Mr. Kushagra Gupta Chalmers University

**NATIONAL MODELS**

**Modelling of energy supply infrastructures in the German energy system**

Mr. Peiwen Zhang, Institute of Energy Economics and Rational Energy Use, Uni Stuttgart

**Quantifying critical mineral demand for the energy transition in the US power sector using the TIMES US Model**

Dr. James Glynn, Energy Systems Modeling Analytics

**Actionable Transmission Infrastructure Planning Decisions using TIMES U.S. Model (TUSM)**

Mr. Zhiyuan Fan, Columbia University

**A Strategy for Flexibilization of Thermal Generation under Increasing RE Integration**

Ms. Sonam Dolker, Indian Institute of Technology Kanpur

*(20 mins each)*

**11:00-11:20 COFFEE BREAK**

**11:20 - 13:00 SESSION 6: NATIONAL MODELS CONTINUED**

**Chair: tbc**

**TIMES-Ukraine Model Findings for the National Energy and Climate Plan**

Mr. Andrii Semeniuk, Institute for Economics and Forecasting, NASU

**The SHIFT scenario: the impact of Lower Energy Demand on the Belgian energy transition**

Ms. Enya Lenaerts, Vito/EnergyVille

**Carbon Capture, Allocation, Transportation, and Sequestration (CCATS) for the 2025 Annual Energy Outlook**

Dr. Anna Cororaton, US Energy Information Administration

**A point-in-time snapshot of EECA's progress toward CICD for TIMES-NZ**

Dr. Will Catton, EECA

**The Development of the TIMES Energy Model for Saudi Arabia (TIMES-SA) to Support the Saudi Green Initiative**

Mr. PEI-HAO LI, Aramco

*(20 mins each)*

**13:00-14:00 LUNCH**