

TAIEX TRATOLOW Regional workshop on Energy modelling

Organised in co-operation with

Transition towards Low Emissions and Climate Resilient Economy in the Western Balkans and Türkiye (TRATOLOW)

1 – 3 March 2023

Venue:

Sheraton Istanbul Levent (Levent, Büyükdere Cd. 3-4 D:4, 34330)

Istanbul, Türkiye

Beneficiary:

Albania, Bosnia and Herzegovina, Kosovo, Montenegro, North Macedonia, Serbia, Türkiye*

TAIEX Case ID TRATOLOW 83430

*This designation is without prejudice to positions on status, and is in line with UNSCR 1244/1999 and the ICJ Opinion on the Kosovo declaration of independence.

TAIEX

MOVING FORWARD TOGETHER WITH EU EXPERTISE

Aim of the Workshop:

The objective of the Regional Workshop is to contribute to improvement in energy modeling in the TRATOLOW beneficiaries, as well as multidisciplinary expertise and development and implementation of energy policies and measures of relevance for climate change mitigation.

The objective is to dive deeper into and work on conceptual and technical aspects of the energy simulations, including underlying principles and assumptions of energy modeling, modeling methodology, calibration, input data, and output results.

Participants will have the opportunity to learn how to use modeling and how to use and interpret modeling results to design climate-related decisions.

Through the extensive modeling exercises where attendees will practice applying the data and analyzing results, they will build and/or strengthen their skills and develop an in-depth understanding of energy modeling they will use in the future.

The experiences about the energy sector modeling between the TRATOLOW beneficiaries will be shared too, so that the participants can learn from each other and about the mistakes, some of beneficiaries might have done.

Speakers

- **Mr. Abdurrahim Durmus**
Ministry of Environment, Urbanisation and Climate Change, Türkiye
- **Mr. Mohamed Ben Ticha**
Energy Systems Analyst, IAEA (International Atomic Energy Agency)
- **Ms. Violeta Philippitsch**
TRATOLOW Team Leader, Environment Agency Austria
- **Ms. Natasa Markovska,**
Associate Professor, Macedonian Academy of Sciences and Arts
- **Ms. Verica Taseska-Gjorgievska,**
Scientific Collaborator, Macedonian Academy of Sciences and Arts
- **Ms. Gherghita Nicodim,**
Counselor, Ministry of Environment, Waters and Forests, Romania
- **Mr. Richard Juřík,** Deputy Director of Department of Environmental Policy and Sustainable Development Section of Climate Protection, Ministry of Environment, Czech Republic
- **Mr. Matevz Pusnik,**
Jozef Stefan Institute, Slovenia

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Day 1: Wednesday 1 March 2023

Chair: Ms. Violeta **Philippitsch**, TRATOLOW Team Leader

Venue: Sheraton Istanbul Levent, Istanbul, Türkiye

Local time	
9:30 – 10:00	<i>Arrival of participants - Coffee will be served</i>
10:00 – 10:30	Opening remarks <ul style="list-style-type: none"> • Mr. Abdurrahim Durmus • Ms. Violeta Philippitsch
10:30 – 11:00	Sum up of the first workshop and introduction of the workshop objectives <ul style="list-style-type: none"> • Ms. Violeta Philippitsch
11:00 – 11:30	Latest development in climate related policies TRATOLOW project
11:30 - 11:40	<i>Coffee Break</i>
Experience in energy modelling in the TRATOLOW countries	
<p>DESCRIPTION: Beside models, tools and applied approaches, problems, gaps and lessons learnt shall be presented based on experience in development of the NDC, NatComm, BURs, NECP etc. What are the future needs and how improvement of the energy modelling if foresees.</p> <p>Detailed instruction for presentation of the countries will be prepared by the TRATOLOW project and shared with participants in advance.</p>	
11:40 – 12:00	Albania
12:00– 12:20	Bosnia and Herzegovina
12:20 – 12:40	Kosovo*
12:40 – 13:00	Montenegro
<i>Lunch break</i>	
14:15 – 14:35	Serbia
14:35 – 14:55	Türkiye
14:55 – 16:00	Long term and mid-term modeling – role of policy makers in energy modelling Mr. Richard Juřík
16:00 – 16:15	<i>Coffee break</i>
16:15 – 17:30	Discussion - Role of the Authorities in Energy modelling
17:30	End of day 1

Day 2: Thursday 2 March 2023

Chair: Ms. Violeta Philippitsch, TRATOLOW Team Leader Venue: Sheraton Istanbul Levent, Istanbul, Türkiye	
Local time	
9:00 – 9:30	<i>Arrival of participants Coffee will be served</i>
9:30 – 10:10	Key energy modelling highlights from case studies in Europe and outcomes from the last energy modelling workshop, organized by IAEA <ul style="list-style-type: none"> • Mr. Mohamed Ben Ticha
10:10 – 11:10	Application of IAEA energy model – exercise <ul style="list-style-type: none"> • Mr. Mohamed Ben Ticha, IAEA and all participants
11:10 – 11:30	<i>Coffee break</i>
11:30 – 13:30	Application of IAEA energy model – exercise <ul style="list-style-type: none"> • Mr. Mohamed Ben Ticha, IAEA and all participants
<i>Lunch break</i>	
Energy modelling experiences	
14:45 –15:45	Modelling improvements in North Macedonia – changes in data quality and tools <ul style="list-style-type: none"> • Ms. Natasa Markovska
15:45 – 16:00	<i>Coffee break</i>
16:00 – 17:00	Application of the MARKAL model - Exercise <ul style="list-style-type: none"> • Ms. Verica Taseska-Gjorgievska
17:00	End of day 2

Day 3: Friday 3 March 2023	
Chair: Ms. Violeta Philippitsch, TRATOLOW Team Leader Venue: Sheraton Istanbul Levent, Istanbul, Türkiye	
Local time	
9:00 – 9:30	<i>Arrival of participants , Coffee will be served</i>
9:30 – 11:30	Application of the MARKAL model – continuation <ul style="list-style-type: none"> • Ms. Verica Taseska, MANU – Macedonian Academy of Sciences and Arts, and all participants <u>Participants will need to have their computers with them.</u>
11:30 – 11:45	<i>Coffee Break</i>
11:45 – 12:25	Challenges and opportunities for energy system modelling in Slovenia <ul style="list-style-type: none"> • Mr. Matevz Pusnik, Jozef Stefan Institute and all participants <p>Clarification: Representative of Institute will present development in energy modeling in Slovenia, focusing on roles and responsibilities of different governmental institutions involved in the process, data flow and mechanisms that ensure continuity and sustainability in energy modelling.</p>
12:25 – 13:25	Use of the energy model – industry sector exercise <ul style="list-style-type: none"> • Mr. Matevz Pusnik, Jozef Stefan Institute and all participants <p>Clarification: Input Datasets will be prepared and the software installed in advance. Participants will be informed which type of data and in which format they shall prepare. During the session data will be entered in the model, model used and results discussed. Process of improvement of the energy modelling, including development of "national" model will be elaborated. <u>Participants will need to have their computers with them.</u></p>
Lunch break	
14:45 – 16:15	Use of the energy model – industry sector exercise - continuation <ul style="list-style-type: none"> • Dr. Matevz Pusnik, Jozef Stefan Institute, Slovenia and all participants <u>Participants will need to have their computers with them.</u>
16:15 – 16:55	Outsourced energy modelling as a tool for decision making <ul style="list-style-type: none"> • Ms. Gherghita Nicodim, Ministry of Environment, Waters and Forests, Romania <p>Clarification: Even not directly involved in the modelling, the Ministry is institution responsible for policy planning and responsible for results of the model, taking into account there is no continuity in energy modeling (there is no national capacity). Thus, procedures for definition of assumptions and selection of policies and measures to be considered during the modelling, clarification of results and their contribution to achievement of national goals to stakeholders and other governmental institutions will be elaborated by the representative of the Ministry. .</p>
16:55 – 17:15	Discussion on advantages/disadvantages of models (used during the workshop) and Summary of the workshop
17:15	End of day 3

A large, abstract graphic composed of numerous thin, curved lines in various colors (blue, green, yellow, orange, red, purple) that sweep across the page from the left and bottom edges towards the center, creating a sense of movement and connectivity.

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Annual Activity Report

EN: europa.eu/!bxCcUp

FR: europa.eu/!VgYK9J

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