

## 15<sup>th</sup> Regional Exchange of Modelling Experts involved in the Development of Integrated National Energy and Climate Plans (NECP) in the WB6

### Agenda

#### Building up modelling capacity for integrated energy and climate planning

Virtual exchange via MS Teams, 18-May-22, 09:30-11:45 am CEST

#### Context and purpose of the exchange

On 30-Apr-2020, the German Agency for International Cooperation (GIZ) and the Energy Community Secretariat (ECS) initiated the first Regional Exchange of Modelling Experts to support the modelling work underlying NECPs of Energy Community Contracting Parties (CPs) in the Western Balkans. Since then, a series of exchanges has aimed to support the build-up of modelling capacity for integrated energy and climate planning. Exchanges have facilitated technical discussions of modelling approaches, related aspects and challenges among modellers and technical experts of CPs.

#### Speakers on 18-May-22: The future electricity market with 100% renewables

Time	Presentation	Speaker(s)
09:30 – 09:40	Welcoming remarks	Anja Rosenberg/ ECS Esad Smajlovic/ GIZ
09:40 – 10:00	<p><b>Factors influencing the long-term planning for VREs: Challenges and opportunities</b></p> <ul style="list-style-type: none"> <li>- Power system planning: Fundamentals</li> <li>- Time dimensions of power sector planning</li> <li>- Modelling software –indicative coverage</li> <li>- Typical data requirements</li> <li>- Planning tools &amp; variable Renewable Energy (VRE) in the planning process</li> <li>- Long-term energy planning with VRE</li> <li>- Methodological guides from IRENA</li> <li>- Flex Tool</li> </ul>	<b>Asami Miketa/ IRENA</b>
10:00 – 10:20	<p><b>Coal phase-out in North Macedonia: The model behind the decision</b></p>	<b>Aleksandar Dedinec/ MANU</b>
10:20 – 10:40	<p><b>Modelling activities related to the Austrian 100% RES target for 2030</b></p> <ul style="list-style-type: none"> <li>- RES-related investment and support needs for meeting the Austrian 2030 RES electricity target</li> <li>- Modelling of flexibility needs and options in high RES-share electricity systems under the impact of climate change</li> </ul>	<b>Franziska Schöniger/ TU Wien</b>

Time	Presentation	Speaker(s)
10:40 – 11:00	<b>Flexibility options to support decarbonization in the Energy Community: Study results</b>	<b>Davor/ Bajs Energy Community Secretariat</b>
11:00 – 11:20	<b>Policy Decision Support for Renewables Deployment through Spatially Explicit Practically Optimal Alternatives</b> <ul style="list-style-type: none"> <li>- reveal trade-offs like where to site wind farms, hidden in conventional methods</li> <li>- considering social acceptance during energy scenario development</li> <li>- Calliope model</li> </ul>	<b>Francesco Lombardi/ TU Delft</b>
11:20 – 11:40	<b>Economy-wide Effects of Climate Change and Adaptation in the Energy Sector of Kazakhstan</b> <ul style="list-style-type: none"> <li>- using macroeconomic modelling to analyze economy-wide impacts of climate change and adaptation measures – the approach of the programme on climate resilient economic development (CRED)</li> <li>- the e3.kz (economy, energy, emission) model for Kazakhstan</li> <li>- how the deployment of wind power and energy efficiency improvements reduce climate change induced costs for the economy</li> </ul>	<b>Anett Großmann/ GWS Institute of Economic Structures Research</b>
11:40 – 11:45	Closing remarks	Anja Rosenberg/ ECS Esad Smajlovic/ GIZ