

# Future Grid Challenges and innovation

## August 12<sup>th</sup>

Speaker	Presentation Title
Beatriz Jardim, Portugal	Brief Overview Iberian Blackout - 28th April, and how to make electrical systems more resilient in a large scale renewable scenario - An example of BESS operation in Madeira's Islands
Dr. Julia Vopava-Wrienz, Austria	Innovative operating strategies to address future grid challenges
Dr. Anamaria Iamandi, Romania	Shaping the Future of the Romanian Power System: Present Challenges and Outlook
Prof. Monika Pinchas, Ariel University	Network Synchronization with 1588v2 (PTP)
Dr. Nurit Gal	Moderation

# Beatriz Jardim, Portugal

Ms. Jardim is an electrical engineer Working for over 30 years for the Electrical System Operator in Madeira Island. (EEM - EMPRESA DE ELECTRICIDADE DA MADEIRA, S.A.). Started at the planning department and is currently responsible for the wind farms of EEM and is also the Quality, Environment, and Safety Director. Beatriz participated as Member of the Working Group in the Electric Energy Sector representing EEM - Empresa de Electricidade da Madeira S.A. in 2022 - the action plan for sustainable energy and climate in the autonomous region of madeira 2015 - participation in the madeira climate strategy - adaptation strategy to climate change in the autonomous region of madeira. She is currently President of the Regional Directive Council of the Ordem of Engineers.



# Dr. Anamaria Iamandi, Romania

---

Anamaria Iamandi is a power engineer and Project Manager Power System at Tractebel Engineering S.A. She specializes in power system integration, digital substations, and protection systems, with a PhD from POLITEHNICA Bucharest. Anamaria began her career at Transelectrica, contributing to EU-funded projects like CROSSBOW and INTERFACE. She is actively engaged in education as an Associate Professor, mentoring students in relay protection. Anamaria holds leadership roles in CIGRE, serving as Secretary General of the Romanian NGN and representing Romania on the CIGRE NGN International Executive Committee, fostering global collaboration among young power system professionals.



# Dr. Julia Vopava-Wrienz, Austria

---

Julia Vopava-Wrienz is an expert in future-proof energy systems, focusing on the integration of renewable energy sources and flexible consumers into distribution grids. She completed her Bachelor's degree in *Industrial Environmental Protection with a focus on Process Engineering* and her Master's degree in *Industrial Energy Technology* at Montanuniversität Leoben. Since 2016, she has been working at the Chair of Energy Network Technology at Montanuniversität Leoben, where she completed her PhD in 2021 on synergies between electromobility and photovoltaics. She now leads the research group "Distribution Energy Systems," where her work centers on sector-coupled, grid-serving operating strategies to unlock and utilize flexibility potentials in future energy systems.



# Prof. Monika Pinchas, Israel

---

Prof. Monika Pinchas has been working at Ariel University. For over sixteen years. Before that, she served as the CTO at Resolute Networks, where she was responsible for designing network synchronization using the IEEE 1588v2 protocol. She has several papers in leading journals and conference papers on the IEEE1588v2 for the Network synchronization task.

Prof. Monika Pinchas has academic experience in the area of Network synchronization, specifically with IEEE 1588v2, and practical knowledge in the field.



# Dr. Nurit Gal, Israel

---

Dr. Nurit Gal is the CEO of e-NRGY consultancy. Prior to that, she was head of regulation and vice chairman of the Israeli Electricity Authority. In this capacity, she led the implementation of Israel's renewable targets, designed the Israeli wholesale electricity market, and led the long-term planning of the electricity sector. Dr. Gal holds a B.Sc. in Physics and Math, a Master of Public Administration from Harvard University, a Master in Energy Policy from Johns Hopkins University, an M.Sc. in Operations Research from Tel Aviv University, and a Ph.D. in Business Administration from Tel Aviv University. Her dissertation is titled: "The effect of fuel cost uncertainty on investments in competitive electricity markets."

