

8th Annual EPRI-IEA Workshop

Challenges in Decarbonisation:

Building a Resilient Net-Zero Future

19th to 21st October 2021

Daily:

16h to 18h (CEST)

10h to 12h (EDT)

In co-operation with:

EPRI

International
Energy Agency

iea

Day 1: Tuesday 19 th October	
16h00 CEST/ 10h00 EDT	Welcome and Opening Dr. Fatih Birol, Executive Director, IEA Dr. Arshad Mansoor, President and CEO, EPRI
16h15 CEST/ 10h15 EDT	Panel 1: Flexibility and Resiliency in Decarbonised Energy Systems Moderated by Alejandro Hernandez, Head of Renewables Integration and Secure Electricity Unit, IEA Achieving a decarbonised future will require an increase of both traditional VREs and emerging technologies like hydrogen, battery storage and CCUS on the grid. This panel will provide an overview of the components that will help foster a flexible and resilient net-zero energy system. Speakers will provide an outline of technology options – both their challenges and opportunities – for ensuring the future bulk power system is both flexible and resilient.
	<ul style="list-style-type: none"> • Pierluigi Macarella, Chair of Electrical Power Systems, University of Melbourne, Australia • Mert Geveci, Director, Digital Technologies, Malta Inc. • Jeffery Preece, Senior Program Manager, EPRI • Audrey Ramsay, System Restoration Senior Manager, National Grid

Day 2: Wednesday 20 th October	
16h00 CEST/ 10h00 EDT	Keynote – Neva Espinoza, Vice President - Energy Supply and Low-Carbon Resources, EPRI
16h15 CEST/ 10h15 EDT	Panel 2: A Holistic Look at Electrification Moderated by Joe Stekli, Program Manager, Low Carbon Resources, EPRI Increased electrification will require not only increased resilience and grid hardening, but also a multi-sector approach that leverages sector interdependencies throughout the entire energy system. This session will look at how to best address economy-wide approaches to decarbonisation. Panellists will discuss multi-sector synergies and efficiencies including multi-sector modelling, the role of hydrogen and gas-electricity interlinking, T&D considerations and more.
	<ul style="list-style-type: none"> • Teresa Mogensen, enior vice president, Energy Supply, Xcel Energy • Shawn Chandler, Professor, Engineering Computer Science Department, Portland State University • Jesse Scott, Director - International Program, Agora Energiewende • Jeff Dennis, General Counsel and Managing Director, Advanced Energy Economy

Day 3: Thursday 21 st October	
16h00 CEST/ 10h00 EDT	Keynote – Keisuke Sadamori, Director, Energy Markets and Security, IEA
16h15 CEST/ 10h15 EDT	<p>Panel 3: Planning and Forecasting for Physical and Climate Resilience</p> <p>Moderated by David Hunter, Sr. Advisor, Government Affairs, EPRI</p> <p>From market design changes to new planning tools, the transformation of the energy system requires new mechanisms to maximise the benefits of integrating new technologies to optimise grid operations and take a holistic energy system view to planning. This session will provide an in-depth look into the types of tools and processes required to plan for system transformation that achieves our decarbonisation goals while minimising the impacts of physical and natural threats.</p>
	<ul style="list-style-type: none"> • Laurent Dubus, Lead Scientist – Weather and Climate, RTE • Edwin Haesen, Head of Section – System Development, ENTSO-e • Daniel Brooks, Vice President, Integrated Grid and Energy Systems, EPRI • Craig Glazer, Vice President - Federal Government Policy, PJM • <i>Puesh Kumar, Acting Principal Deputy Assistant Secretary, CESER, US Dept. Of Energy* TBC</i>