

Insights from net-zero LTES for national energy planning

28 March 2022 – 16:30 – 18:00 CET

via Zoom

Register ►

The importance of long-term energy scenarios (LTES) as a tool to support policy makers is ever increasing in the face of the clean energy transition. Energy scenarios produced are varied, leading to an abundance of insights and technology combinations. LTES have also been featured prominently in the political sphere as pathways to national and global net-zero targets. It has therefore become crucial to compare different scenarios produced by a variety of global organizations, in order to formulate the correct policies for the transition, channel investments and inform the public about how to visualize the pathways and objectives for a clean and sustainable future.

In the past years, the concept of net-zero has also prominently featured on the global agenda, as countries continue to agree that the targets set forth by the Paris Agreement cannot be reached without large-scale and urgent decarbonisation of our energy systems. Scenarios have been modelled by government institutions to showcase the different pathways towards those targets, with varying mixes of technologies, policies, business models and transition speeds. A clear overview of these scenarios is highly necessary to ensure the right messaging for decisionmakers to formulate national energy plans and roadmaps.

[Benchmarking net-zero scenarios](#) have showcased overarching trends that are common in decarbonisation pathways, such as end-use sector electrification, energy efficiency improvements and high shares of renewable energy. However, it is important to delve further into the enabling factors for such trends. Digitalisation, decentralization and behavioural changes are some of the key factors in enabling the energy transition, but *have net-zero scenarios begun to showcase these elements, and are governments actively including such enabling factors in their long-term planning?*

This event will bring together experts to explore how this plethora of net-zero LTES can be analysed and compared to produce useful insights for ambitious policymaking, through addressing some other key questions:

- *What are the key elements that constitute net-zero LTES and how can they be incorporated for national planning purposes?*
- *In devising net-zero scenarios, what are the key methodological challenges? What lessons can we learn for national net-zero scenario development?*

The event will also feature insights gained from IRENA's National Energy Transition Planning Dashboard, which showcases information and highlights of national energy plans around the world and discuss how governments can benefit from such insights in formulating ambitious, transformative and just plans for

their own countries. This initiative alongside insights gained from the Clean Energy Ministerial LTES Initiative can provide highly effective mapping methodologies and tools for governments to achieve net-zero.

Agenda:

16:30	Opening	Nadeem Goussous, IRENA
16:30 – 16:40	Welcome remarks	Dolf Gielen, IRENA
16:40 – 16:55	Scene setting presentation	Asami Miketa, IRENA
16:55 – 17:35	Expert interventions: <ul style="list-style-type: none"> • What are the key elements that constitute net-zero LTES and how can they be incorporated for national planning purposes? • In devising net-zero scenarios, what are the key methodological challenges? What lessons can we learn for national net-zero scenario development? 	<ul style="list-style-type: none"> • Brian O’Gallachoir, Chair of the Executive Committee of the IEA Energy Technology Systems Analysis Program on energy systems modelling (IEA-ETSAP) and Professor of Energy Engineering in University College Cork • Todd Levin, Principal Energy Systems Engineer, Argonne National Laboratory / Net-Zero World Initiative • Pablo Carvajal, Senior Manager – Climate change and Sustainable Finance, Ernst & Young LLP (EY)
17:35 – 17:50	Q&A and discussion	
17:50 – 17:55	Feedback on the role of the LTES Network in disseminating good practices	Moderated by: Tiina Koljonen, Research Team Leader and Principal Scientist – Scenario planning to carbon-neutrality, VTT Technical Research Centre of Finland
17:55 – 18:00	Closing remarks	Nadeem Goussous, IRENA