4th International Forum on Long-Term Scenarios for the Clean Energy Transition
7-9 December 2022
Bonn, Germany

Agenda

The event will take place at the IRENA Innovation and Technology Centre in Bonn, Germany, in a hybrid format (on-site and virtual), allocating only a limited number of on-site spaces.

Day 1 Wednesday, 7 December 2022	
8:30 – 9:30	Registration and morning coffee.
9:30 – 10:30	**Opening remarks**
10:30 – 10:45	**IRENA presentation on LTES Network**
10:45 – 12:15	**Session 1: Aligning Long-Term Energy Scenarios (LTES) with Long-Term Low Emission Development Strategies (LT-LEDS) to strengthen climate action.** The global energy transition requires broad and efficient coordination between energy and climate institutions to align policies and investment signals. At the recommendation of the Paris Agreement, 56 countries have submitted long-term low-emission development strategies (LT-LEDS) to outline their strategies to decarbonize by mid-century. Many LT-LEDS include development pathways based on LTES analysis. The session will exchange good practices and challenges for integrating the use of LTES in the development of LT-LEDS, in terms of governance, institutional arrangements, and scenario methodologies.
12:15 – 13:30	Lunch
13:30 – 15:30	**Session 2: Demand side assessments in Long-Term Energy Scenarios.** The energy transition not only entails changes the supply of energy, but crucially in the way it is consumed. Digitalization-driven behaviours, technological innovation, and cheaper renewable power will bring new dimensions to consumption patterns in the end-use sectors, thus impacting the approaches to assess them in LTES.

	This session will address the different approaches, methodologies, and key drivers for representing demand-side features of the energy transition in LTES. The discussion will focus on how countries are currently assessing demand-side scenarios and how they benefit from them.
15:30 – 16:00	Coffee break
16:00 – 17:30	**Session 3: Long-Term Energy Scenarios as an explorative tool for policymaking.** Long-term energy scenarios provide tools to handle the intrinsic uncertainties of the future and means to assess their impact on the energy systems, allowing policymakers to take well-informed decisions. It has become common for energy planners to build a multitude of energy scenarios to analyze different pathways for the energy transition. This session aims to bring together governmental experts to share their experiences and discuss the benefits, methodologies, and different approaches for producing and using a diversity of LTES for energy planning and policymaking.
	End of day 1
18:00– 19:30	**Welcome reception**

Day 2 **Thursday, 8 December 2022**	
9:30 -10:30	Registration and morning coffee
10:30 – 10:40	Introduction to the second day
10:40 – 12:35	**Session 4: Role of 100% renewable electricity for the energy system transition in scenarios.** Developing scenarios with 100% renewable electricity is a challenging process, it requires a comprehensive review and integration of multi-disciplinary aspects such as resource assessments, flexibility, grid stability, and sector coupling, among others. The scientific community has tried to address such challenges using various approaches and on different scales, from the local to the global. This session will bring together technical experts to exchange methodological practices, blind spots, and content considerations for developing such scenarios; the session will also open the discussion of future challenges for countries for producing scenarios with 100% renewable power.

12:35 – 13:30	Lunch
13:30 – 15:15	**Session 5: Incorporating global hydrogen insights for national LTES narratives.** Hydrogen has emerged as an important driver in the energy transition and has progressively been incorporated as a key feature of the LTES narratives by governments, whether it is envisioned for domestic consumption or as an export commodity. This session will provide governmental energy planners with strategic insights to incorporate hydrogen narratives in national LTES. The discussion will bring together governmental experts to share their experiences on how the use of LTES can support the formulation of policies and strategies for hydrogen development in different stages of market maturity.
15:15 – 15:45	Coffee break
15:45 – 17:30	**Session 6: Geopolitical impacts on the development and assessment of LTES.** The global geopolitical and economic landscape undeniably affects the future evolution of energy systems. These impacts need to be reflected in their long-term energy scenarios to enable well-informed policy and investment decisions. This session aims to bring together experts to discuss how geopolitical and other global issues are addressed while formulating LTES, and how the current global events are changing these approaches to support energy policies.
	End of day 2
18:00 – 20:00	Dinner

Day 3 **Friday, 9 December 2022**	
8:45 – 10:00	**Quarterly LTES members and partners meeting [closed meeting]**
10:00 – 10:30	Registration for the workshop and morning coffee
10:30 – 12:00	**Workshop part 1: Participatory processes for developing national long-term energy scenarios.** The objective of this session is to exchange knowledge on best practices and recent experiences in stakeholder engagement processes on long-term energy scenario

	development and gather perspectives from different stakeholders on important features and challenges of ensuring a participatory and inclusive scenario development process.
12:00 – 13:00	Lunch
13:00 – 14:30	**Workshop part 2: Country and expert cases on stakeholder consultations** Countries will present their experience in implementing participatory and consultation processes for developing LTES.