

IRENA Innovation Day: Programme

15 – 17 July 2019, Montevideo, Uruguay

Monday, 15 July 2019

Time		Day 0: Site tour
14:30	17:30	Managing a high-renewables power system: a tour of DNC – The National Energy Dispatch Centre

Tuesday, 16 July 2019

LATU Technology Park, Montevideo

Time		Day 1: Innovation Day 'Solutions for a renewable-powered future'
08:00	09:00	Registration opens
09:00	09:15	Welcoming remarks from the Interim Minister of Industry, Energy and Mining Uruguay
09:15	10:00	Setting the Scene Perspectives from world, the region and the country on successes, ambitions and challenges for renewable power and the impacts of innovation of their national energy system.
10:00	11:15	Session 1: Solutions for smart and flexible grids Exploring innovative solutions for smart grids that can provide higher levels of flexibility and help to effectively integrate renewable energy in power systems. The changing roles of energy actors, as well as emerging challenges and opportunities in operating innovative smart grids, will be central elements of the discussions.
11:15	11:45	Coffee Break
11:45	13:00	Session 2: Solutions for energy storage Exploring the innovative use and integration of large- and small-scale energy storage solutions e.g. flexible-hydro, utility scale and behind the meter batteries, pump hydro storage and other energy storage options.
13:00	14:00	Lunch Break
14:00	15:30	Session 3: Solutions for renewable-powered end-use sectors (Transport, Buildings and Industry) Exploring how the electrification of end-use sectors with renewable electricity can help decarbonize the transport, buildings (heating & cooling) and industry, while becoming a flexibility source to integrate more renewables in power systems, including the potential role of power-to hydrogen.
15:30	16:00	Coffee Break
16:00	17:30	Session 4: Solutions for engaged consumers Exploring digitalization-enabled business models for managing demand and providing flexibility – for example blockchain and artificial intelligence enabled solutions such as distributed generation or demand-side management.
17:30	18:00	Closing Remarks Recapping on the discussions and highlighting key insights to be included in the event summary report.
18:30	20:00	Evening reception

Wednesday, 17 July 2019
 Torre ANTEL, 26th Floor

Time		Day 2: Workshop 'Innovative solutions for 100% renewable power systems by mid-century'
08:30	09:00	Registration opens
09:00	09:30	Welcome address by IRENA, OLADE, Sweden and Uruguay
09:30	10:30	Session I: Challenges in the implementation of ambitious policy targets to achieve power systems with high shares of renewable power by mid-century This session will focus on short-, medium- and long-term challenges arising once a power system is entirely renewable-based (e.g. how to make use of the surplus electricity to avoid curtailment - by trading with neighboring countries, having long-term storage solutions, electrifying end-user sectors, etc.).
10:30	11:00	Coffee break
11:00	12:30	Session II: Technical feasibility of a 100% renewable power system by 2050 This session will focus on the technical requirements to enable a 100% renewable power system by 2050, and will discuss generation adequacy assessments, transmission capacity requirements, stability-related operational constraints and flexibility solutions to be adopted.
12:30	14:00	Lunch break
14:00	15:30	Session III: Showcase of experiences from leading countries operating power system with very high shares of renewables This session will focus on experience and lessons learned from leading countries that have already high or very high penetration rates of renewables in their national power system, which could benefit other member countries, including challenges and measures taken to address those challenges.
15:30	16:00	Coffee break
16:00	17:00	Session IV: Innovative solutions for 100% renewable power systems This session will focus on decentralization, digitalization and electrification being the main innovation drivers enabling the rapid uptake of a high share of renewables in the power system of the participating countries by mid-century.
17:00	17:20	Summary of discussion
17:20	17:30	Closing remarks