Mission Innovation
Green Powered Future Mission Workshop

Policy and Technology for Grid Flexibility and Stability

March 12 (Tue.) – 13 (Wed.), 2024

Day 1 – March 12 (Tuesday)

8:00-10:00 US (EDT) / 12:00-14:00 UK / 13:00-15:00 Europe (CET) / 17:30-19:30 India / 20:00-22:00 China / 21:00-23:00 Japan / 23:00-01:00(+1) Australia (AEDT)

Program (time: CET)

13:00-13:03 Host's Welcome

Koichi INOUE
Mission Innovation Steering Committee Member
Director, International Affairs Office
Industrial Science, Technology and Environment Policy Bureau
Ministry of Economy, Trade and Industry (METI), Japan

13:03-13:13 Opening Statement

Luciano MARTINI
Director, **Mission Innovation "Green Powered Future Mission"**
Director, Transmission and Distribution Technology Department
Ricerca sul Sistema Energetico (RSE), Italy

13:13-13:15 Meeting Protocol

Akiteru MARUTA - Moderator

13:15-13:45 Global View

What are grid flexibility needs for tripling renewable energy capacity?
Paolo FRANKL
Head of the Renewable Energy Division
International Energy Agency (IEA)

Tripling Renewables: Powering the Future with Grid Modernization Solutions for Reliability and Stability
Simon BENMARRAZE
Team Lead Technology and Infrastructure
International Renewable Energy Agency (IRENA)

13:45-15:00 Country Perspectives and Related Policy

Australian perspectives and policy
Peta OLESEN
Director, Net Zero Innovation
Department of Climate Change, Energy, the Environment and Water (DCCEEW), Australia

Challenges for Brazilian Grid Flexibility due Increased VRE Share
Andressa SOARES DOS SANTOS
Energy Research Analyst
EPE, Brazil

Technological demonstration on utilization of DER for flexibility in Japan
Kotaro SASAKI
Deputy Director, Advanced Energy Systems and Structure Division
Agency for Natural Resources and Energy
Ministry of Economy, Trade and Industry (METI), Japan

Draft update of NECP 2023-2030: The challenge of electrification of final demand
Jesús PULIDO
Deputy Directorate-General for Energy Foresight, Strategy and Regulation
Ministry for the Ecological Transition and the Demographic Challenge, Spain

UK leadership in domestic Demand Side Response standardisation and grid flexibility innovation
Laura SCHADE
Senior Energy Engineer
Department for Energy Security and Net Zero, UK

15:00 **End of Day 1**

Day 2 – March 13 (Wednesday)

8:00-10:15 US (EDT) / 12:00-14:15 UK / 13:00-15:15 Europe (CET) / 17:30-19:45 India / 20:00-22:15 China / 21:00-23:15 Japan / 23:00-01:15(+1) Australia (AEDT)

Program (time: CET)

13:00 **Meeting Protocol**

13:00-13:50 **Technology Session 1: Electricity Storage**

Lithium-Ion batteries for Energy Storage
Hong LI
Researcher
Institute of Physics, Chinese Academy of Sciences (IP CAS), China

Large Scale Sodium-Sulfur Battery (NAS®) and its application
Kenshin KITOU
Senior Manager, Global Business Creation, Corporate NV Creation
NGK Insulators, LTD., Japan

Energy Storage Systems (Flow Battery Systems) for Expanding the Renewable Energy Implementation
Arata DOI
Manager, Strategic Business Planning Group,
Flow Battery Systems Business Planning Department, Energy Systems Division
Sumitomo Electric Industries, Japan

Research Progress of Advanced Compressed Air Energy Storage System
Haisheng CHEN
Director
Institute of Engineering Thermophysics, Chinese Academy of Sciences (IET CAS), China

13:50-14:40 **Technology Session 2: Flexibility Sources and Solutions**

Value chain mapping of Energy Storage technologies and solutions for flexibility in Spain
Luis Manuel SANTOS MORO
Director of Innovation
EDP, Spain

Dynamic Operating Envelopes: An Australian gateway to DER flexibility markets
Julio BRASLAVSKY
Principal Research Scientist
CSIRO, Australia

Power System Flexibility to Enable the Energy Transition
Nicola ROSSI
Head of Innovation
Enel Group, Italy

Connect and Manage Projects in Japan
Yuka OGASAWARA
Project Manager, Chief Officer
Smart Community and Energy Systems Department
New Energy and Industrial Technology Development Organization (NEDO), Japan

14:40-15:05 **Technology Session 3: Grid Stability (Inertia Management, Smart Inverters, Grid forming converters)**

Full-DC-link integration of VRE: A novel solution for improving grid stability

Yibo WANG
Researcher
Institute of Electrical Engineering, Chinese Academy of Sciences (IEE CAS), China

Grid Forming Converters: Advanced capabilities for grid stability with high penetration of Renewable Energy

Jun HASHIMOTO
Senior research scientist
National Institute of Advanced Industrial Science and Technology (AIST), Japan

15:05-15:15 **Future Perspectives – GPFM**

Luciano MARTINI
Director, **Mission Innovation "Green Powered Future Mission"**
Director, Transmission and Distribution Technology Department
Ricerca sul Sistema Energetico (RSE), Italy

15:15 **Closing**

Registration:	https://online-convention.webex.com/webappng/sites/online-convention/webinar/webinarSeries/register/7b61733f10f04f44b8c903a4f02eddf0
	Registration close: March 8 of each time zone (Recording is available for a limited period upon registration)
Language:	English (Japanese translation is available for live streaming. Recording is in English only)
Platform:	WebEx
Host:	Ministry of Economy, Trade and Industry (METI), Japan
Contact:	For questions on webinar program: Technova Inc. technova-sympo@technova.co.jp For questions on registration and webinar: Inter Group Corp. secretariat_2@ig-online.jp