



TEXAS A&M
UNIVERSITY *at* QATAR

كلية العلوم والهندسة
College of Science & Engineering

جامعة حمد بن خليفة
HAMAD BIN KHALIFA UNIVERSITY



Workshop on Grid Requirements for Renewable Integration

Exploring Models, Studies, and Codes

December 2 - 3, 2024

JW Marriott Marquis City Center Doha



Agenda

Day 1: Challenges, Impact, and Modeling Monday, December 2, 2024

08:00 - 08:30	Registration
08:30 - 09:00	Opening Remarks
09:00 - 09:40	Dr. Jovica Milanovic Challenges in the Planning and Operation of Resilient Net-Zero Power Systems (Online)
09:40 - 10:20	Eng. Hashim Ali Al-Zahrani Impacts of Renewable Energy Sources Integration on GCCIA Power Grid Operations
10:20 - 10:40	Coffee Break
10:40 - 11:20	Dr. Abdullah Al-Badi Reducing the Impact of Renewable Energy on Power System Inertia: Oman Case Study
11:20 - 12:10	Q&A Session
12:10 - 13:00	Lunch Break
13:00 - 13:40	Dr. Veronica Bermudez Benito Challenges for a Flexible and Optimized Integration of Renewables into Existing Power Systems
13:40 - 14:20	Dr. Grain Adam On Modeling Requirements: Selected Benchmarking of RMS versus EMT
14:20 - 14:30	Coffee Break
14:30 - 15:10	Mikael Halonen Grid Requirements for Renewable Integration: Possibilities with Today's STATCOM Technology Using Grid Forming
15:10 - 16:00	Q&A Session
19:00 - 22:00	Social Dinner at Yasmine Palace, The Pearl

Agenda

Day 2: Studies and Grid Codes Tuesday, December 3, 2024

08:00 - 08:30	Registration
08:30 - 08:40	Opening Remarks Dr. Selma Awadallah
08:40 - 09:20	Dr. Afshin Pashaei Operability Studies in Connecting Power Electronics-based Devices to Electrical Networks: UK Experience
09:20 - 10:00	Adham Atallah Dynamic Performance Studies Aspects in Grids with Increasing Penetration of Power Electronics-based Generation
10:00 - 10:20	Coffee Break
10:20 - 11:00	Dr. Selma Awadallah Investigating Grid Codes and IEEE P2800: Requirements on Collocated IBRs
11:00 - 12:00	Q&A Session
12:00 - 13:00	Lunch Break
13:00 - 13:40	Dr. Ramon Blasco-Gimenez Technical and Regulatory Barriers for a 100% Renewable Energy System: The Spanish Case
13:40 - 14:20	Dr. Mohamed Ramadan Younis Power System Requirements of Inverter-based Resources in North America
14:20 - 14:30	Coffee Break
14:30 - 15:10	Nasser Faarouqui Developing Grid Codes, Governance and Standards for 100% Renewable Energy-based Systems: Australian and New Zealand Perspectives
15:10 - 16:00	Q&A Session