

Parallel Sessions

Session II: Clean Electricity Transition (Room: MR 109 CD)

Chairpersons: Dr. Atikom Bangviwat & Assoc. Prof. Dr. Bundit Fungtammasan

The electricity sector is currently undergoing a significant and transformative change. A recent report from Price Water House indicates that many within the industry anticipate a substantial evolution or even a complete overhaul of the existing power utility business model in their respective markets by 2030. Beyond the imperative of ensuring electricity security to meet escalating demand, especially in emerging economies, global power systems must invest in strengthening and modernizing their grids. This, along with regulatory and market reform, is crucial to effectively accommodate the increasing share of variable electricity generation from sources like wind and solar power (VRE), along with the integration of distributed energy resources into the electricity mix.

However, the transition to clean electricity in ASEAN is progressing at a relatively slow pace. Specifically, the region's renewable energy sector has failed to attract the expected level of capital investment, primarily due to outdated policies, regulations, and market designs implemented by governments and utilities. Looking ahead, there is a need to explore and enhance the role of the grid flexibility, end-use sector electrification, energy efficiency solutions, and the adoption of emerging technologies such as electric vehicles, hydrogen, and battery storage systems. Additionally, the significance of expanding regional power sector integration should be emphasized.

This session therefore aims to facilitate the sharing of knowledge and experiences among key actors in clean electricity transition in the region, focusing on the crucial aspects of implementing pro-renewable energy policies, regulations, market designs, and advanced measures to support renewable energy and investment.

13.30-14.00 **EGAT's pathways to achieving carbon neutrality by 2050**

by Ms. Saijai Thatavakorn, Electricity Generating Authority of Thailand (EGAT)

14.00-14.30 **Utility Green Tariff (UGT) and Energy Regulatory Commission (ERC) Sandbox as instruments for driving clean electricity transition in Thailand.**

by Dr. Chanchai Amornvipas, Director of Department of Energy Innovation & Regulatory Development, Energy Regulatory Commission (ERC), Thailand

14.30-15.00 **Policy, regulatory and market evolution towards clean electricity transition in Malaysia**

by Prof. Ir Dr Nasrudin Abd Rahim, UM Power Energy Dedicated Advanced Centre (UMPEDAC), Universiti Malaya

15.00-15.30 **The Impact of Competitive Procurement in Supporting the Renewable Energy Market**

by Mr. Pitoon Junthip USAID SE Asia Smart Power Program