



台灣電力公司
TAIWAN POWER COMPANY

2025 IERE-TPC Taipei Net-Zero Workshop
May 26–29, 2025

Taiwan Grid Resilience and Innovation Research Partnership Initiative

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Keywords: *Taiwan grid resilience, smart grid, energy transition, renewable energy integration*

Abstract

The development of Taiwan's smart grid focuses on digitalization, renewable energy integration, and user participation. In response to the threat of extreme weather, human errors and the growing share of total generation provided by renewable energy, Taiwan Power Company (TPC) has announced a ten-year “Construction Plan for Enhancing Power Grid Resilience” aiming to reduce the risk due to power grid concentration, and improve safety, system stability, and defense against widespread blackouts. Along with these efforts, TPC has initiated a Grid Resilience and Innovation Research Partnership (TGRIP) program to leverage research and development investments in emerging technologies by the National Science and Technology Council (NSTC), TPC and other institutes. The TGRIP project team will apply its broad portfolio and domain expertise to help partners find the best path forward to achieve targeted outcomes in grid resilience, decarbonization, and energy efficiency, as well as energy equity and environmental justice.

This talk will give a brief description on the power delivery performance of TPC, diverse measures adopted by Taiwan government and TPC to building a smart grid, net-zero electricity emissions blueprint and the TGRIP project.