Taipei specific energy storage applications

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Taiwan aims to accumulate a total of 590 MW of battery-based energy storage by 2025, with a target of 160 MW managed and procured by state-owned Taiwan Power Company (TPC), and 430MW to be developed via private-sector, independently operated storage facilities. Economic opportunity (public and private) is approximately $1 billion and may grow given plans to integrate energy storage with Taiwan"s numerous solar and wind energy projects.

Taiwan plans to generate 20% of its energy from renewable energy by 2025, up from approximately 5% in 2020. Overall energy policy calls for increased renewable energy and LNG, significantly less coal, and a "nuclear-free homeland". Energy storage is needed to effectively integrate intermittent solar and wind power into the grid with systems to match power supply and demand.

For public projects, TPC, will announce public procurements. U.S companies can bid and sell their equipment to TPC. In 2020, Tesla Inc. won a tender bid for the Tonglin, New Taipei City, 10 MW project from TPC. Planned TPC Battery-Based Energy Storage Public Tenders:

For privately-owned storage facilities, facility owners will receive power from TPC and act as a "warehouse / logistics service provider", releasing the power into the grid on demand. Local engineering procurement companies (EPC) are likely to lead the overall project / connection to the grid, while foreign suppliers are expected to provide batteries and software. At present, local Taiwan electronics manufacturing companies are actively engaged in providing this service to TPC.

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