Energy storage for resilience taipei

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By shifting to indoor substations and replacing aging equipment, external accidents can be effectively prevented and the probability of equipment failures can be reduced.

By constructing switch yards at critical hub substations for power convergence, establishing new substations to increase power distribution nodes and adding protection and defense equipment, the impact of accidents can be contained within specific areas.

By limiting the scope of accidents, the duration of power outages can be significantly reduced. Additionally, with improved regional dispatch capabilities, the restoration process can be accelerated.

In the past, Taipower has faced resistance and challenges from the public when carrying out power infrastructure projects. However, following the 303-Incident, society has placed a greater emphasis on power grid resilience. Taipower will actively engage with local governments and the public to facilitate early completion of crucial resilience projects, such as:

The magnitude 7.2 (ML) earthquake that struck Taiwan at 7.58am early on Wednesday morning was the largest earthquake in Taiwan in a quarter of a century. It brought to mind the 921 Earthquake in 1999 that had caused major power outages throughout the nation.

However, looked at in terms of the impact on the electricity supply, the two earthquakes were very different, which is a measure of the many improvements that had been put in place since the Sept. 21, 1999, quake.

Wednesday"s earthquake impacted the supply from several generators and power lines belonging to independent power producers and Taiwan Power Co (Taipower), but the overall power supply continued to operate as normal.

There are two main reasons the supply shortages caused by an earthquake of this magnitude could be reinstated in such a short time and the service resumed almost seamlessly.

The first was that the grid energy storage system was able to respond quickly; the second was that other power sources, such as from pumped storage hydropower, solar power and gas, were able to quickly make up the shortfall.

This shows the importance, in addition to the effectiveness of the green energy sources developed over the past few years, of the Grid Resilience Strengthening Construction Plan () that Taipower has announced, in which it expects to invest NT$564.5 billion (US$17.6 billion) over a decade.

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The investment is to be spent on a number of projects designed to comprehensively upgrade the national electrical grid system, including decentralization, expansion and modernization of the grid, increasing the amount of storage equipment and enhancing resilience to prevent the spread of power outages.

Despite the significant cost of the plan, the investment is needed. Wednesday"s earthquake was similar in magnitude to the 921 Earthquake of 25 years ago, and yet the impact was significantly reduced.

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