

Solar Storage Container Solutions

Vietnam Power Signal Base Station 125kWh



Overview

How is the power transmission system simulated in Vietnam?

The methodology for the study is briefly shown in Figure 3-1. In this study, Vietnam's power transmission system (500-220kV) will be simulated in peak/off-peak load conditions with the largest proportion of renewable energy sources (lowest system inertia).

Which is the largest conventional generating unit in Vietnam?

According to PDP 8, by 2030, a generating unit of O Mon thermal power plant will be the largest conventional generating unit in Vietnam's power system with the capacity of 1050 MW. The contingency in that unit is simulated at 5 s after the normal steady state operation.

How is the power transmission system in Vietnam based on PDP 8?

The simulation is performed by using data from Vietnam's power transmission system (500 – 220 kV) in 2030 according to the PDP 8. The following operation modes are considered in the simulation: Day time peak load- The proportion of renewable energy proportion is about 21.4%.

What will Vietnam's power system look like in 2030?

By 2030, the proportion of renewable energy in Vietnam's power system is expected to increase to about 30%, the total inertia of the system will be reduced to 1.777s. The simulation is performed by using data from Vietnam's power transmission system (500 – 220 kV) in 2030 according to the PDP 8.

How much power does Vietnam have?

The growth of the installed capacity in the period of 2011 - 2022 is shown in Figure 1-4. In this period, the total installed capacity grew from 23 GW to over 80 GW with the average rate of 12% per year. Before 2019, Vietnam's power sources were mostly traditional plants, such as coal-fired, gas-fired, and hydropower plants.

What is the inertia of Vietnam's power system in 2022?

If all generating units in the system are considered, the total inertia of Vietnam's power system in 2022 is about 1.785s. By 2030, the proportion of renewable energy in Vietnam's power system is expected to increase to about 30%, the total inertia of the system will be reduced to 1.777s.

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