

## A-Core Container

# Vietnam s power plant energy storage ratio



## Overview

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How many solar power plants are there in Vietnam?

From 2019 onwards, the government enacted the renewable energy development mechanisms, thus, solar and wind power sources have developed significantly. By 2022, Vietnam's power system had over 16 GW of solar power (including rooftop solar power) and 5 GW conventional of wind power. The power plants had a total installed capacity of about 59.

What are Vietnam's power sources?

Before 2019, Vietnam's power sources were mostly traditional plants, such as coal-fired, gas-fired, and hydropower plants. From 2019 onwards, the government enacted the renewable energy development mechanisms, thus, solar and wind power sources have developed significantly.

How much energy does Vietnam have in 2022?

As presented in Section 1.1.2, by the end of 2022, the total installed capacity in Vietnam reached 80.7 GW. In which, renewable energy sources reached nearly 14 GW (about 27%). If all generating units in the system are considered, the total inertia of Vietnam's power system in 2022 is about 1.785s.

How many biomass power plants are there in Vietnam?

According to the Ministry of Industry and Trade, Vietnam has 16 biomass power plants with a total installed capacity of 350 MW. Vietnam has great potential for biomass energy development, with a total potential of up to 50 million tons of oil equivalent (TOE).

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 growth rate of electricity consumption in Vietnam?

The growth of power consumption in Vietnam from 2011 to 2022 is summarized in Figure 1-1 and Figure 1-2. During this period, national electricity increased nearly 2.8 times from 93 billion kWh in 2011 to 242 billion kWh in 2022 with an average growth rate of about 9.2%/year.

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