



# Is solar power generation in Vietnam connected to the grid





## Overview

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In 2020 and 2021, more than 100,000 rooftop solar projects, at least 15 utility-scale solar plants, and around 75 wind plants were connected to the grid. Additionally, PDP VIII and the Implementation Plan list 27 solar power projects, totaling 4,136. However, these projects may be advanced under self-production and self-consumption arrangements. Draft Decree on Direct Power Purchase Agreements On April 15. According to World Wildlife Fund Vietnam (WWF-Vietnam), Vietnam's solar energy is evaluated as having high development potential renewable energy (RE) sources. [2] On average, the solar radiation ranges from 1,300 to 2,900 kWh per year, increasing towards the southern regions. (Photo: iStock) On 13th November 2025, the National Assembly of Vietnam approved the Resolution on the Socio-Economic Development Plan for 2026, setting an ambitious target of at least 10% annual economic growth. With abundant solar potential due to its geographical location, the country has become a significant player in the Southeast Asian. Vietnam's direct energy purchase policy could be a gamechanger in the push for renewable energy (RE) production in the coming years, but the government should ensure grid connectivity to accommodate a surge in capacity, according to energy analysts.



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### [Techno-economic performance analysis of a 50 MW grid-connected](#)

This paper provides a detailed analysis of the performance and economics of a 50 MW grid-connected solar power plant in Vietnam over a 4.5-year operational period from January 2020 to ...

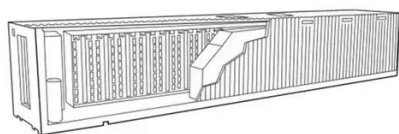
### **GRID INTEGRATION CHALLENGES**

In 2020 and 2021, more than 100,000 rooftop solar projects, at least 15 utility-scale solar plants, and around 75 wind plants were connected to the grid. Most of these projects are concentrated in a few ...



### [Vietnam's Promising Solar Energy Expansion and Potential - ...](#)

Other projects must wait for the competitive bidding mechanism policy to be implemented. This has led to a significant stalling of grid-connected solar power growth in Vietnam.



### [Grid upgrades and market reform: Reshaping Vietnam's renewable ...](#)

Vietnam's power grid is divided into three major regions, including the North, the Central, and the South, which are interconnected through a network of 220 kV and 500 kV transmission lines.



## Renewable energy in Vietnam

Overview  
Hydropower  
Wind energy  
Solar energy  
Biomass energy  
Solid waste energy (waste-to-energy)  
Geothermal energy  
Tidal energy

Vietnam utilizes four main sources of renewable energy: hydroelectricity, wind power, solar power and biomass. At the end of 2018, hydropower was the largest source of renewable energy, contributing about 40% to the total national electricity capacity. In 2020, wind and solar had a combined share of 10% of the country's electrical generation, already meeting the government's 2030 goal, suggesting future displacement of growth of coal capacity. By the end of 2020, the total installed capacity of solar and wind power ...

## Vietnam's solar strategy for trade-tense times

Vietnam's renewable energy ambitions face another formidable obstacle: grid infrastructure that cannot keep pace with generation capacity. While a 50-100 MW solar project can ...



## [Vietnam's weak grid a barrier to direct power purchase policy](#)

Vietnam encourages the use of self-sufficient rooftop solar power to expand renewable energy



without straining the electricity grid. Under its power development plan for 2021 to 2030, 50% ...



## Vietnam's Solar Power Industry 2025: Policy Shifts, Growth, Challenges

What challenges is Vietnam's solar power sector facing? The industry faces multiple challenges, including grid congestion, delays in implementing competitive bidding, and policy ...



## **Grid integration of renewables**

Vietnam's has made impressive progress on its renewable energy transition, but the rapid expansion of solar and wind is straining the country's electricity grid.

## **Renewable energy in Vietnam**

While wind and solar investment remains attractive in Vietnam, existing capacity is under-utilized due to lack of electric transmission capacity and lack of a replacement for the expired feed-in tariff. [5]



## **Recent Solar Power Developments in**



## Vietnam

The draft decree introduces mechanisms for direct power purchases between renewable energy generators, including wind and solar power, and large electricity users, through either private ...



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