

## European Solar and Energy Storage Solutions

# Vietnam production of electricity from solar energy

To Strive forward No Energy Waste



- ✓ All in one
- ✓ 100~215kWh High-capacity
- ✓ Intelligent Integration



## Overview

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By the end of May 31, 2019, 7 wind power plants were in operation, for a national installed capacity of 331 MW. By July 2022, installed capacity had risen to at least 4,000 MW due to the addition of 84 new wind farms. The power development masterplan PDP 7 revised, published in 2016, stated that Vietnam would aim to have 800 MW of wind power capacity by 2020, 2,0.

Current State of Vietnam's Solar Industry  
Installed Capacity in 2024: As of 2024, Vietnam's installed solar power capacity is approximately 16.5 GW.  
Growth Rate: Since 2020, Vietnam's solar industry has grown at an average annual rate of around 25%.  
Market Share: Solar power constitutes about 25% of Vietnam's total power generation capacity. .

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In 2023, renewable energy contributed 13.6 percent of Vietnam's total electricity production and imports, amounting to 37.9 million kilowatts per hour (kWh). Solar energy was the leading source within this sector, generating 25.7 million kWh and accounting for 9.2 percent. It was followed by wind energy, which produced 11.4 million kWh (4.1 .

As of July 2021, total installed power capacity of solar energy in Vietnam was approximately 19,400MWp (of which nearly 9,300MWp was home solar power system), which was equivalent to approximately 16,500MW, accounting for approximately 25% of all installed power capacity in the country, and power generation contribution accounted for .

Marking a pivotal point for the development and growth of solar and renewable energy in Vietnam, the Ministry of Industry and Trade (MOIT) has said it will implement a new, national solar feed-in tariff (FiT) program to take effect July 1, 2019, according to a March 1 industry news report. The latest draft of Vietnam's solar FiT 2.

Vietnam has been leading in solar power development in the ASEAN region.

The solar power sector grew strongly, with a new capacity estimated at 17.6 GW in 2021. How much solar energy does Vietnam produce in 2021?

In 2021, electricity production from solar energy accounts for about 10.8% of the total electricity output of the whole system. Vietnam's solar photovoltaic power industry has recently experienced strong development and this is only the beginning of the process. The country's energy transition is away from coal.

How much solar energy does Vietnam have?

In terms of installed capacity, as of July 2021, the total installed capacity of solar energy in Vietnam was approximately 19,400MWp (of which nearly 9,300MWp is household photovoltaic, accounting for nearly half), which was equivalent to 16,500MW, accounting for approximately 25% of the country's total installed electricity capacity.

Why is solar energy growing in Vietnam?

Support policies such as electricity price subsidies and tax exemptions are the key driving forces for the rapid growth of installed capacity of solar energy in Vietnam. Of course, Vietnam's current photovoltaic installed capacity is also restricted by the aging power grid that is unable to absorb green electricity.

Is Vietnam a good place to develop solar power?

With a high average annual total radiation, Vietnam is considered a place with special potential for developing solar power. In the world trend of restructuring the energy industry towards a clean and sustainable direction, the solar industry is expected to be a major contributor to the country's renewable energy capacity in the near future.

Where in Vietnam is solar power coming from?

The project started commercial operation and began delivering power to EVN. In addition, in the central Ninh Thuan Province, the epicenter of Vietnam's solar energy boom, the Trung Nam Group, a Vietnamese conglomerate, has also constructed a solar farm, one of the largest in Southeast Asia.

Which country has the greatest solar power capacity in Vietnam?

Rooftop solar power also accounts for a significant proportion of total solar power capacity in Vietnam. consequently, Vietnam has surpassed Thailand as

the ASEAN country with the greatest installed solar power capacity. Rooftop solar will account for approximately half of Vietnam's total solar capacity by 2030.

## Vietnam production of electricity from solar energy



### 2021 Solar Statistics in the Country of Vietnam

And according to the draft PDP, Vietnam's electricity sources could meet 132.2 GW by 2030, with 29 % coming from wind, solar, and renewable energy, 21 % coming from thermal gas power, 18 % coming from hydroelectricity, 27 % coming from coal-fired plants, and 4 % coming from some of the other imported sources.

### Viet Nam Country Report

energy, wind energy and solar energy, which can be utilised to meet the national energy demand in general and the need for electricity in remote areas in particular. - Solar power: to reach to 0.5%, 6.0% and 20.0% of total electricity output by 2020, 2030 and 2050, respectively.



### ENERGY PROFILE Viet Nam

Solar Bioenergy Geothermal 100% 98% 24% 0%  
 20% 40% 60% 80% 100% ELECTRICITY  
 GENERATION ENERGY AND EMISSIONS CO 2  
 emissions by sector Elec. & heat generation CO 2  
 Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all

### Vietnam Rooftop Solar Power: Draft Decree Opens Up

## Investor ...

Vietnam's solar energy market, bolstered by high potential and government support, offers foreign investors a prime opportunity to contribute to the country's "Net Zero" goals and green energy growth. high-tech zones, economic zones, and production and business establishments. With 428 industrial parks, over 1,000 industrial clusters

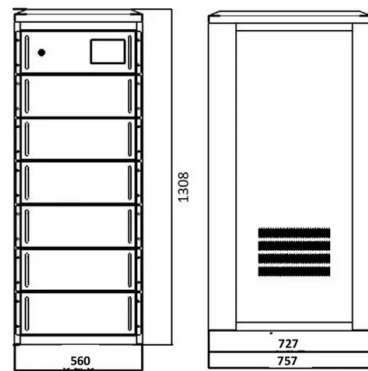


## Renewable energy in Vietnam

Vietnam utilizes four main sources of renewable energy: hydroelectricity, wind power, solar power and biomass. [1] At the end of 2018, hydropower was the largest source of renewable energy, contributing about 40% to the total national electricity capacity . [ 2 ]

## Solar energy in Vietnam

As of July 2021, total installed power capacity of solar energy in Vietnam was approximately 19,400MWp (of which nearly 9,300MWp was home solar power system), which was equivalent to approximately 16,500MW, accounting for approximately 25% of all installed power capacity in the country, and power generation contribution accounted for



## Shaping Vietnam's energy future with distributed ...

The Power Development Plan VIII outlines ambitious targets for renewable energy, aiming for a share of 31-39 per cent in electricity production by 2030 and an impressive 67.5-71.5 per cent by 2050. The plan envisions a ...



## Renewable energy in Vietnam

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

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## Vietnam

Solar power: Vietnam leads Southeast Asia in solar energy now and in the future, followed by Thailand, Malaysia, the Philippines, and Indonesia, according to SolarPower Europe (SPE)'s forecast. Vietnam has seen rapid growth in solar energy development in recent years and became one of the leaders in the Southeast Asian solar power market by 2023.



## Vietnam's Solar Energy Market: A Comprehensive Outlook for ...

4 ???· In 2023, renewable energy contributed 13.6 percent of Vietnam's total electricity production and imports, amounting to 37.9 million kilowatts per hour (kWh). Solar energy was the leading source within this sector, generating 25.7 million kWh and accounting for 9.2 percent. ...



### **(PDF) The Status and Potential Assessment of Solar Power Energy**

In this research, evaluation of the potential of renewable energy sources, emphasizing on solar power energy with its opportunities and challenges in Vietnam's power energy sector will be discussed.

### **The Development of Solar Energy in Vietnam**

In 2021, electricity production from solar energy accounts for about 10.8% of the total electricity output of the whole system. Vietnam's solar photovoltaic power industry has recently experienced strong development and this is only the beginning of the process. The country's energy transition is away from coal.



### **Vietnam Solar Profile: Energy, and an Economy, in Transition**

Marking a pivotal point for the development and growth of solar and renewable energy in Vietnam, the Ministry of Industry and Trade (MOIT) has said it will implement a new, national solar feed-in tariff (FiT) program to take effect

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## RENEWABLE ENERGY IN VIETNAM: CURRENT SITUATION

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o Electricity output in 2020: 10.6 billion kWh (4.3% of the total output of the entire national power system). o By December 2020, the total installed capacity of solar power has reached about 16,500 MW (25% of the total installed capacity of the national power system)-About 8,000 MW of roof-top solar power



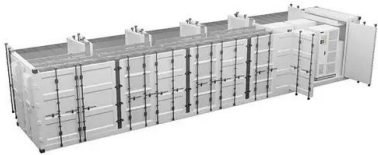
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## Vietnam's Solar Industry Growth Trends and Projections

Vietnam's rapid economic growth has led to a

surge in energy demand, with electricity consumption increasing by an average of 10% annually. Solar power has emerged as a quick and sustainable solution to meet this growing demand.



## Review of Potential and Actual Penetration of Solar Power in Vietnam ...

With the average solar radiation reaching up to 5 kWh/m<sup>2</sup>, Vietnam is considered as a country showing an excellent potential for solar power production. Since the year 2000, there have been a lot of studies about the potential of this source in Vietnam. So far, many applications of solar power have been implemented on small, medium, and large scales. In ...

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## Solar power in Vietnam attained a 25-fold increase last year

Global energy demand slipped last year to the lowest level since World War II. As fossil fuels



declined, renewables have surged forward. Coal-dependent Viet Nam has pulled off a 25-fold increase in its solar capacity in just one year. Incentives for homes and businesses to install rooftop solar panels led to the boom in solar power in Vietnam.

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## Vietnam: Achieving 12 GW of Solar PV Deployment by 2030

solar photovoltaic supply chain; and (vi) an analysis of deployment options. Key Findings - A well-organized solar auction in Vietnam in 2019 could result in power purchase agreements with prices of US\$0.055-0.065/kWh over 25 years (in levelized real terms and with an appropriate allocation of contractual risk).

## Energy in Vietnam

Electricity generation in Vietnam, 1985-2020. Vietnam is a dynamic developing economy with a relatively high growth rate. The energy sector plays a key role in promoting the country's socio-economic development. Vietnam has a diverse energy fuel resource of various types such as coal, natural gas, petroleum, hydropower and renewables such as solar and wind energy.



## The Development of Solar Energy in Vietnam

The country's solar PV capacity increased from 86 MW in 2018 to about 16,500 megawatts (MW) in 2020. In 2021, electricity production from solar energy accounts for about 10.8% of the total electricity output of the whole system. Vietnam's solar photovoltaic power industry has recently experienced strong development and this is only the

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