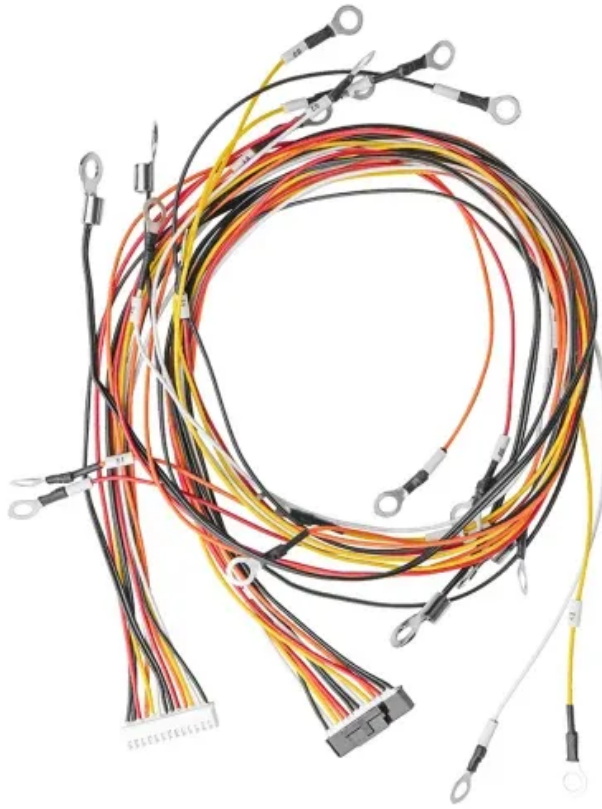


# **State Grid acquires solar power generation**





## Overview

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How long has data been collected for power generation and weather-related data?

Over two years (2019–2020), power generation and weather-related data were collected at 15-minute intervals. The dataset was used in the Renewable Energy Generation Forecasting Competition hosted by the Chinese State Grid in 2021. The process of data collection, data processing, and potential applications are described.

Where are solar stations and wind farms located?

To cover different climate zones and geographic locations, the selected solar stations and wind farm sites included areas in North, Central, and Northwest China, and the terrain included deserts, mountains and plains.

How many MW does a solar station produce?

Table 2 describes the meaning of column headings. The nominal solar generation capacity varied from 30 MW to 130 MW, and the average real output ranged from 4.2 MW to 29.8 MW. The statistics of each solar station can be seen in Table 5.

Where are solar power generation data stored?

Solar power generation data are in the solar\_stations folder, which includes eight Excel files. The weather condition data and real-time power generation data were recorded in these files. The power generation and PV panel information of each solar station are listed in Table 4.

Can on-site solar and wind generation data be used for forecasting?

Solar and wind generation data from on-site sources are beneficial for the development of data-driven forecasting models. In this paper, an open dataset consisting of data collected from on-site renewable energy stations, including six wind farms and eight solar stations in China, is provided.



Is there a platform for analyzing solar installation data?

There is a platform called OpenStreetMap that is used to recreate new versions of wind and solar installation datasets 16. Solar radiation information is an indispensable parameter in analyzing solar generation. Jiang et al. presented a twelve-year (2007–2018) hourly dataset with 5-km resolution of surface and diffuse solar radiation in China 17.



## State Grid acquires solar power generation

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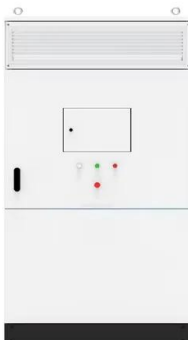


### IndiGrid completes acquisition of its First Solar Asset

Mumbai, Wednesday, July 14, 2021: India Grid Trust ("IndiGrid"), India's first This transaction is in line with IndiGrid's strategy to acquire solar projects with long term power purchase 11 ...

### National Grid completes acquisition of Geronimo Energy

National Grid has also entered into a joint venture agreement with Washington State Investment Board ('WSIB'). National Grid contributed approximately \$125 million for a ...



### China's State Power buys into Mexico's renewables

China State Power Investment Corporation acquires Mexico renewable energy company Zuma Energia. Zuma Energia is Mexico's largest independent renewable generator, with 818MW of installed wind and solar ...

### China State Grid set for stake in Brazil's CPFL Energia

Chinese power giant China State Grid is set to acquire a significant stake in CPFL Energia, the holding company behind Brazilian renewables pacesetter CPFL Reno CPFL ...



### **China's State Power buys into Mexico's renewables**

China State Power Investment Corporation acquires Mexico renewable energy company Zuma Energia. Zuma Energia is Mexico's largest independent renewable generator, ...



### **Octopus Energy acquires 143MW solar PV portfolio in Germany**

Octopus Energy plans to invest over EUR1 billion in renewables by 2027 in Germany. Image: Octopus Energy. UK-based energy group Octopus Energy has acquired its ...



### **Solar and wind power data from the Chinese State Grid**

Accurate solar and wind generation forecasting along with high renewable energy penetration in power grids throughout the world are crucial to the days-ahead power ...





### China's State Grid plans to take Brazilian CPFL Energia private

State Grid completed in January the acquisition of controlling stakes in CPFL and its renewables unit CPFL Energias Renovaveis (BVMF:CPRE3) for BRL 17.36 billion. CPFL and its ...



### Aspen Power Acquires Pennsylvania Commercial Solar Portfolio

NEW YORK, May 3, 2023 - Aspen Power, a distributed generation platform with the mission of accelerating and democratizing decarbonization, announced today that it has acquired an ...

### Large investor-owned utility acquires solar developer Geronimo Energy

National Grid has also entered into a joint venture agreement with Washington State Investment Board ('WSIB'). National Grid contributed approximately \$125 million for a ...



### State Grid to undertake Brazil's new push for clean energy

The \$3.6 billion project will help integrate renewable energy sources like wind and solar into Brazil's national grid and support the country's transition to cleaner power.



### Alliant Energy acquires Springfield Solar from National Grid

National Grid Renewables sold the Springfield Solar project in Dodge County, Wisc., to Alliant Energy. Springfield Solar is a planned 100 megawatt (MW) solar energy ...



50KW modular power converter



**Flexible Configuration**

- Modular Design, Expanding as Required
- Small/light, Wall Mounted
- Installed in Parallel for Expansion

**Powerful Function**

- Support PV ESS
- Grid Support, Equipped with SVG Technology
- On-Grid and Off-Grid Operation

**Reliable Protection**

- Outdoor IP65 Design
- Sufficient Protection Functions Equipped

### National Grid completes acquisition of Geronimo Energy

National Grid, through its competitive non-regulated unit National Grid Ventures (NGV), has completed its US\$100 million acquisition of North American wind and solar ...

### National Grid Ventures officially acquires Geronimo Energy

National Grid has also entered into a joint venture agreement with Washington State Investment Board ('WSIB'). National Grid contributed approximately \$125 million for a ...



### Powergrid acquires transmission project SPV in Rajasthan

Power Grid Corporation of India Limited (Powergrid) has acquired the project SPV Bikaner-II Bhiwadi Transco Limited (BBTL) from the bid process coordinator, PFC ...



### Aspen Power Acquires Commercial Solar Portfolio Spanning New ...

Eight sites from Solar Site Developers total 41 megawatts of capacity. NEW YORK--(BUSINESS WIRE)-- Aspen Power, a distributed generation platform with the mission of accelerating and ...



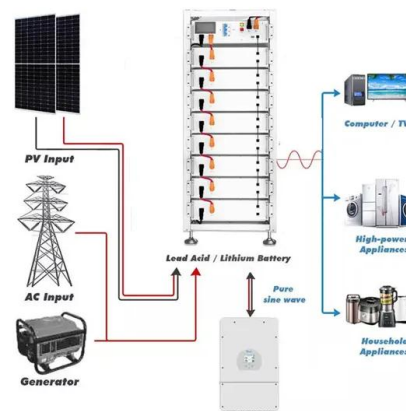
### National Grid officially acquires renewable developer, Geronimo ...

National Grid has completed its \$100 million acquisition of Geronimo Energy, a recognized wind and solar developer in North America. The deal, first announced in March of ...



### China's State Grid acquires Greek power grid ADMIE , Enerdata

Greece's national power utility PPC and China's State Grid International Development have signed the sale and purchase agreement under the terms of which State ...



### [Bord Gáis Energy acquires Swyft Energy](#)

However, the actual volume of solar generation in Ireland is likely higher than this report, as this only represents generation from grid-scale solar PV power plants and not ...





### **Pennon Power acquires 100MW solar portfolio from Elgin Energy**

PV ModuleTech USA, on 21-22 May 2024, will be our third PV ModuleTech conference dedicated to the U.S. utility scale solar sector. The event will gather the key ...



### **National Grid Completes \$100M Acquisition Of Geronimo Energy**

National Grid has completed its \$100 million acquisition of Minneapolis-based wind and solar developer Geronimo Energy. with the Washington State Investment Board. ...

### **IndiGrid to acquire solar asset from ReNew Power**

Operational since December 2021, RSUPL is a 300 MW (AC) solar generation asset located in Jaisalmer, Rajasthan with a 25-year Purchase Power Agreement (PPA) with ...



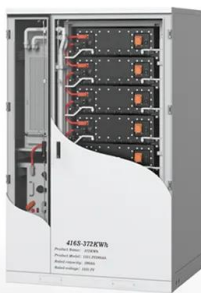
### **What State Grid's new power line means for Brazil's ...**

Chinese power giant State Grid will build a 1,513-kilometre transmission line and two substations in Brazil's north-east, a region experiencing a boom in wind and solar power plants. (Image: Jose Luis Stephens / Alamy)



### China's State Grid closes acquisition of Sempra's power

Sempra Energy has completed the sale of its equity interests in its Chilean businesses to SGID, a fully-owned subsidiary of the Chinese power transmission company ...



### Octopus Energy Generation acquires 252MW solar ...

The firm plans to invest £2 billion into renewable energy projects by 2030. Image: Octopus Energy. The generation arm of British energy major Octopus Energy has announced that it has acquired four new solar projects ...

### China's State Grid closes acquisition of Sempra's power

Sempra Energy has completed the sale of its equity interests in its Chilean businesses to SGID, a fully-owned subsidiary of the Chinese power transmission company ...



### POWERGRID Signs Agreement to Acquire 74% Stake in Jaiprakash Power

Power Grid Corporation of India Limited (POWERGRID), a Maharatna PSE under Ministry of Power, Government of India has signed a Share Purchase Agreement with ...



### **Brazil's \$4.4 Billion Power Line Auction Sees China's ...**

State Grid Corp. of China was the biggest winner at Brazil's auction for 21.7 billion reais (\$4.4 billion) in transmission lines on Friday, which will help connect renewable-power projects to



### **China's State Grid completes acquisition of Chilean power**

Naturgy has completed the sale of its 96.04% stake in the Chilean electricity distribution company Compañía General de Electricidad (CGE) to the Chinese state-owned ...

### **Powergrid acquires two transmission projects in Rajasthan**

Overall, these two projects combined will contribute to the evacuation of 12 GW of solar power through transmission lines in the state of Rajasthan. Recent Posts Torrent ...



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