

## Global PV Storage Insights

# Average wind solar storage price per 800MW in Spain



## Overview

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Platts has launched an “interactive explorer” tool that shows the capture price received by wind and solar power assets, using hourly production and monthly average price data for Spain, Germany, Italy, France, and the United Kingdom. Image: Maxim Grama y Andreas Franke, S&P Global Commodity.

Seventh edition of the summary of renewables in Spain, with a review of the main data summarising a year 2024 marked by the growth of solar energy, the stagnation of wind energy and fears in the sector of price cannibalisation. The data for this report are publicly available on Red Eléctrica 's.

German solar capture prices, which fell to five-year lows in May and June, more than doubled to average Eur65.47/MWh for July as the number of negative hourly prices fell sharply compared to record levels in the second quarter. The capture rate for German solar jumped to 75%, the highest since.

What are the current long-term solar and wind power prices?

Find these prices every quarter in our PPA Insights report, where we assemble solar and on-shore wind power prices for most European countries. Link to report: Also interesting is our sister website with lots of data on European power.

Thanks to publicly available data from the national grid and market operators, respectively Red Eléctrica de España (REE) and OMIE, we were able to calculate the average captured price for both technologies in each AC over the 2014-2017 period, based on hourly day-ahead wholesale market prices\*\*.

Baringa's Spanish Reference Case Report covers our quarterly-updated projections of wholesale power prices and generation-weighted average captured prices for solar and wind generation to 2050. It also includes our capacity and generation projections. Our latest reports include an in-depth analysis. How much does wind energy cost in Europe?

Wind power prices, on the other hand, are more stable and range between €60 and €80/MWh. This indicates that wind energy in Europe tends to be less location-dependent than solar energy. However, the key question is: How do these prices compare with the capture prices?

Why did solar prices fall in Spain in April?

Oversupply from solar and falling demand deflated the market value of renewables in April with Spanish solar hit hardest, Platts Renewable Energy Price Explorer shows. In Spain, the volume-weighted monthly average capture price for solar plunged to Eur14.16/MWh with the technology only capturing 53% of April's wholesale spot price average.

Is wind power a good source of electricity in Spain?

Some of these data are still provisional so they may vary somewhat when they become definitive, but they will be small changes that will not affect the overall picture. As Red Eléctrica itself announced in December, wind power is once again the leading source of electricity generation in Spain with 23%.

How much does solar PV cost compared to wind?

Solar PV's advantage compared to wind is clear with an average captured price – for the entire mainland Spanish fleet – of 47.8 €/MWh (+3.9% compared to the average day-ahead prices) against 41.8€/MWh (-9.3%) throughout the 2014-2017 period. Wind: Castillian Carnage Strong differences can be observed between the most equipped ACs.

What happened to wind & solar generation in Germany?

Annual wind and solar generation was up 2% at a combined 527 TWh across the five markets. Capture ratios also deflated with German solar only capturing 69% of the average wholesale power price in the day-ahead market, Commodity Insights data showed.

## What happened to solar power in Germany in May?

In Germany, solar values fell to a five-year low in May, capturing only 51% of the average power price amid a record number of negative hourly prices. The Explorer shows the "capture price" renewable energy generators receive based on hourly output and pricing data on a monthly average basis.

## Average wind solar storage price per 800MW in Spain

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### Installed capacity , System reports

As of 31 December 2023, the Spanish electricity system's power generation capability, including both the mainland and non-mainland systems, had increased by 5.2 % compared to the ...

### "Fair 'made in Europe' industrial policy for wind power ...

At present, the average year-on-year rate of growth of wind power capacity in Spain is 5.3% over the last 5 years, and to reach the new 2030 target would require this rate to double to 11.8%

...



### OVERVIEW

This is an executive summary of materials prepared by Solarplaza International BV, in conjunction with their upcoming Solarplaza Summit Spain, which represents an overview of the Spanish Solar ...

### Solar becomes Spain's top power source in 2024

Spain's solar PV capacity reached 6 GW in 2024, making it the country's top power source with a

25.1% share, surpassing wind at 24.9%.  
 Renewable generation grew 10.3%, accounting  
 for 56.8% of



## Spain Unveils 820 MW Solar Energy Storage for Q4 ...

Spain has announced 820 MW of energy storage projects for Q4 2024, with 182 MW focused on hybridizing solar and wind installations. Iberdrola leads this initiative, including projects like the FV Revilla-Vallejera Hybrid and ...

## Strategy for energy storage in Spain for 2050

To do that, it is necessary to study the different storage technologies and make a comparison between them, to analyse which storage systems are more useful for large-scale energy ...



## How much does it cost to build a battery energy ...

How much does it cost to build a battery in 2024? Modo Energy's industry survey reveals key Capex, O& M, and connection cost benchmarks for BESS projects.

## Wind and Solar Sectors in Spain

Wind energy is nowadays the most competitive technology of renewable energy sources. Wind technology has reached grid parity in some areas in Spain, generating electricity at a cost that ...

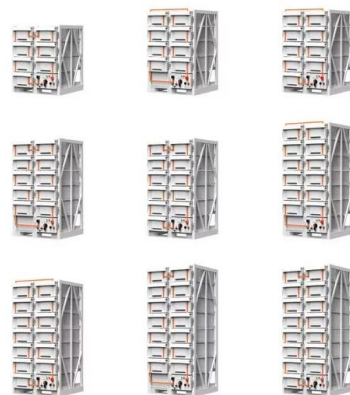


### **Rising costs, lower revenues for European wind and solar lift PPA**

Higher financing costs also require higher PPA prices. Further out, PPA price falls after 2025 and into the 2030s are less pronounced than in the prior report, especially for wind. For solar PV ...

## ENERGY PROFILE Spain

Distribution of solar potential  
 Distribution of wind potential  
 Annual generation per unit of installed PV capacity (MWh/kWp)  
 Wind power density at 100m height (W/m<sup>2</sup>)



### **Solar PV takes the lead in Spain's installed power ...**

According to data from Red Eléctrica, solar photovoltaic (PV), with a total capacity of 32,043 MW, has surpassed wind power (32,007 MW) to become the technology with the highest installed capacity in Spain. Solar PV ...

## Electricity prices

Castile and León: Over 88% renewable, led by wind. Andalusia & Aragon: Massive growth in solar and wind, ~80% clean generation. Galicia: Boosted by hydro and wind, hitting ~75% ...



## SPAIN

The market for utility-scale storage projects remains comparatively small at around 100MW, though a pipeline of projects is beginning to emerge.<sup>2,3,4,5</sup> Much of Spain's existing utility ...

## part 4: Spain's BESS market is heating up

In this report, we delve into the developments in the regulatory framework of the Spanish electricity system and explore the potential of Spain's battery energy storage systems ...



## Spain and Portugal's Blackout: Is Renewable Energy ...

As Spain deepens its clean energy transition, the growing dominance of solar, wind, and other renewable sources is creating new operational pressures on the grid.

## Solar power in Spain

The boom in solar power installations were faster than anticipated and prices for grid connected solar power were not cut to reflect this, leading to a fast but unsustainable boom in ...



### ESS



## Wind energy in Europe: 2024 Statistics and the ...

Europe installed 16.4 GW of new wind power capacity in 2024. The EU-27 installed 12.9 GW of this. 84% of the new wind capacity built in Europe last year was onshore. 2.6 GW of new offshore wind power capacity was ...

## National Survey Report of PV Power Applications in Spain

Solar PV develops in Spain mainly in ground mounted utility-scale plants. The available land, the good solar resource and the competitiveness of the technology made PV the most installed ...



## European Renewable PPA Prices Continue Remarkable

LevelTen Energy's new report reveals that European P25 solar and wind PPA prices\* increased 16% in the second quarter of 2022 to 66,07EUR per MWh. Year-over-year, ...

## Report 2021

was Spain's largest source of electric-ity generation, with a relative genera-tion growth of 2.7 %. According to the Spanish National Integrated Energy and Climate Plan 2021-2030 (NECP), the ...



## UPDATE

The Spanish government-led renewable energy auction on Tuesday awarded 3,124 MW of wind and solar power for an average price of EUR 30.5 (USD 35.54) per MWh, the ministry for the ecological transition said ...

## Solar Installed System Cost Analysis , Solar Market Research

Solar Installed System Cost Analysis NREL analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility ...



## Renewable price capture in Spain: mapping the territory

Baringa's Spanish Reference Case Report covers our quarterly-updated projections of wholesale power prices and generation-weighted average captured prices for solar and wind generation to 2050.

## Wind energy in Spain

Spain is one of the leading wind energy markets worldwide. In 2023, it was among the countries with the largest wind energy capacity, ranking fifth after China, the United ...



## **Spain sets new 2030 solar target of 76 GW**

The Spanish government has set a new 2030 solar target of 76 GW in an energy strategy submitted to the European Commission. It aims to cover over 80% of national electricity demand with renewable

## **New interactive map of renewable energy capture ...**

Platts has launched an "interactive explorer" tool that shows the capture price received by wind and solar power assets, using hourly production and monthly average price data for Spain, Germany



## **National Survey Report of PV Power Applications in Spain**

The average price awarded in PV was 53.87 EUR/MWh, significantly higher than that of the two previous auctions, due to the evolution and prospects of electricity market prices and electricity ...

## Solar PV Market in Spain: Insights into the Current

The leading annual capacity additions and significant investments in solar PV are solidifying Spain's position as a major player in the global solar market. While challenges exist, the future of solar energy in Spain ...

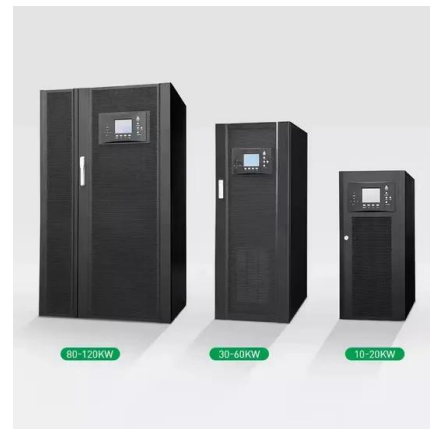


## Spain

In September 2002, Spain was the first European country to introduce a "feed-in tariff" funding system for solar thermal power. This funding system granted a premium on top of the electricity pool price of 12 EUR cents for ...

## Solar Installed System Cost Analysis , Solar Market ...

Solar Installed System Cost Analysis NREL analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems. This work has ...

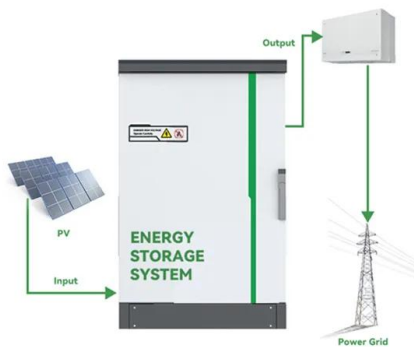


## TotalEnergies Inaugurates its Largest Solar Field in ...

TotalEnergies is building a competitive portfolio that combines renewables (solar, onshore wind, offshore wind) and flexible assets (CCGT, storage) to deliver clean firm power to its customers.

## New interactive map of renewable energy capture ...

The tool displays the capture price received by wind and solar power assets using hourly production and monthly average price data for Spain, Germany, Italy, France, and the United



### ? Electricity prices in Spain

Despite this, electricity prices in Spain remain higher than the average for Europe, though efforts are being made to reduce costs for consumers. If you live in Spain or plan on ...

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