

## Solar with battery tender price in Spain 2030



## Overview

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A modelled 50MW, 2-hour battery, with a roundtrip efficiency of 87% and trading in the Iberian market could have captured an average margin of €7.04/kW/month between September 2021 to December 2022 with a maximum of €12.87/kW/month achieved in September 2022. Prior to 2021 the lower price.

But with rapid coal plant closures and carbon prices above 45 €/t, the influence of coal in Spain is quickly diminishing. Returns on Spanish batteries are influenced by wind & solar driven low priced periods and thermal & hydro driven high priced periods. Rapid growth in intermittent renewable.

Besides providing this hybrid solution, batteries can provide grid balancing services in Spain much cheaper than gas- or coal-fired power plants, if there would be a free market for these services. This will give a boost to the recently increased government target of 22.5 GW of energy storage.

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 energy. From pv magazine Spain Spain's Council of Ministers has approved a Royal Decree updating the.

The Spanish government recently greenlit nearly 300 renewable energy projects representing a €17 billion investment and 28 gigawatts of new capacity. The pipeline looks equally promising, with upcoming tenders expected to allocate 10 GW of solar photovoltaic capacity by the end of this

year and.

This abundance of flexible hydro generation helped mask the growing solar pressure on prices, keeping daily spreads relatively compressed at around €73/MWh despite massive solar buildout. These compressed spreads have lowered the energy arbitrage opportunity for batteries. However, despite another. Will Spain have a solar power system in 2030?

A power system heavily solar dependent in 2030 will require high levels of short duration battery storage installed in Spain in the near future. Spain is relatively isolated from other markets and only has limited import and export capacity to France, Portugal and Morocco.

Will solar power be auctioned in Spain?

A recently published indicative auction calendar foresees at least 10GW of PV capacity and 8.5GW of wind to be auctioned in Spain in the next five years, with renewables projects paired with storage allowed to participate.

What happens if solar prices go down in Spain?

When German prices reach -€150/MWh, Spain can't import enough energy to bring the price down. Economic curtailment: Most Spanish solar installations are large commercial projects with remote control capabilities. When prices become negative, solar operators stop generating.

Is combining solar and storage a good idea in Spain?

This variability, combined with Spain's excellent solar resources, make the economics of combining solar with storage increasingly favorable. The market for utility-scale batteries has been almost non-existent until recently as the market has lacked a clear policy and regulatory framework.

Why are battery storage options more suitable in Spain?

As a result, shorter duration storage options like batteries are more suitable in Spain. In Spain, over 50% of excess renewable energy occurs in periods where there is continuous excess for less than 12 hours i.e. a battery that chooses to charge on this energy would be able to discharge within 12 hours.

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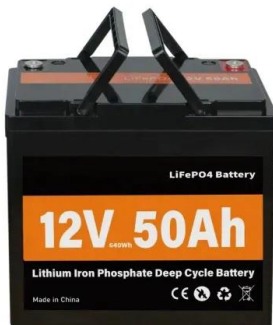


### Spain sets new 2030 solar target of 76 GW

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### Call for applicants to Spain's EUR700m large-scale ...

Standalone and renewables-plus-storage battery projects can apply for up to 85% co-financing, along with pumped hydro and thermal energy storage sites.



### Spain's New PV Installations for Self-Consumption ...

In addition, Spain added 155MWh of new battery storage capacity in 2024. Jon Macías, the president of APPA Renovables, believes that the main reasons for the decline include the end of incentive measures under ...

### Energy storage to soar in Spain and Italy but questions remain

Energy storage is set to soar in Spain and Italy in the coming years but there are question marks

around the regulatory frameworks in each.



## Spain greenlights almost 300 renewable power projects with \$18 ...

The Spanish government has authorised the construction of almost 300 renewable power projects with a total capacity of more than 28 gigawatts, which will help the ...



## Spain targeting 56 GW of new solar by 2030 under ...

Spain targeting 56 GW of new solar by 2030 under new energy strategy The Spanish government says it aims to deploy 76 GW of cumulative PV capacity and 22 GW of storage by the end of this decade.



## Energy storage potential in Spain's upcoming renewables auction ...

Last October, Spain's draft energy storage strategy was published, confirming the target to deploy up to 2.5GW of battery storage capacity and providing means to enable ...



## Battery investment focus shifts to Spain

Although very low prices have not been prevalent in Spain to date, this should help battery returns as renewable penetration increases at pace across this decade.



## Unlocking Opportunity

A 2030 comparison of low carbon power generation across European countries. The prevalence of solar generation - with a strong daily pattern - will affect the capacity and type of power ...

## New analysis reveals that EU solar stalls, 2025 projected to mark ...

SolarPower Europe's new mid-year market analysis for EU solar forecasts -1.4% annual growth for 2025. This would mark the first year of negative market growth since 2015, ...

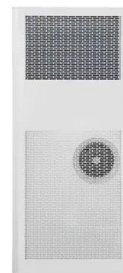


## Iberia: Why are there no batteries in Spain?

Until 2024, Spain had never experienced negative wholesale electricity prices. However, that is changing, and the number of negative price hours is growing faster than in France and ...

## Call for applicants to Spain's EUR700m large-scale energy storage ...

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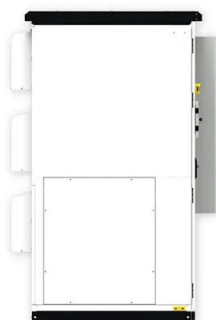


## Spain increases energy storage target in NECP to 22.5GW by 2030

With the passage of the royal decree earlier this week, Spain has slightly increased its target for energy storage from the previously proposed 20GW target by 2030 to ...

## Spain tilts towards the sun with a EUR17 billion ...

Battery storage is key to Spain's ambitions Spain's renewable growth story is becoming a storage story too. The National Energy and Climate Plan sets a target of 22.5 GW of storage capacity by 2030, with approximately ...



## Spain launching grants for 600MW of energy storage

Spain is targeting 20GW of energy storage by 2030. This BESS was deployed by Ingeteam at a green hydrogen facility in Ciudad Real. Image: Ingeteam. The government of Spain is launching EUR160 million (US\$170 million) ...



## Energy storage potential in Spain's upcoming renewables auction ...

The first of Spain's new renewable energy auctions is set to take place next week, as the country offers the possibility for bidders to include energy storage in their offers.



## Spain tilts towards the sun with a EUR17 billion ...

Spain's solar market is experiencing significant growth, creating a wave of project and investment opportunities worth watching. With a combination of natural resources, policy stability, and innovative market ...

## New report: European battery storage grows 15% in 2024, EU ...

21.9 GWh of battery energy storage systems (BESS) was installed in Europe in 2024, marking the eleventh consecutive year of record breaking installations, and bringing ...



## Residential Solar Adoption in Spain: Challenges and Opportunities

Explore the current state of residential solar adoption in Spain in 2025. Learn about key challenges, incentives, and opportunities for homeowners looking to invest in solar energy.



## Pressure on Spanish solar economics as ambition ...

Higher renewable ambition risk oversupply and project economics. Spain's draft National Energy and Climate Plan (NECP) outlines an ambitious increase in renewable energy targets, aiming to raise the share of ...



## Saudi Arabia Plans to Deploy 48GWh of Battery Storage by 2030

As part of the Saudi Vision 2030 policy, the country aims to generate 50% of its electricity from renewable sources. According to Saudi Energy Minister Prince Abdulaziz bin ...

## Spain targeting 56 GW of new solar by 2030 under new energy ...

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Energy storage(KWH)

**102.4kWh**

Nominal voltage(Vdc)

**512V**

Outdoor All-in-one ESS cabinet



## Spain second country in world for stand-alone battery-based ...

With a significant deployment of renewable energy capacity, Spain stands out in this report for two factors that go beyond traditional solar energy and wind sources in the ...

## Understanding solar battery costs: Guide for homeowners in Spain

In conclusion, while solar battery costs may seem daunting upfront, the long-term savings and environmental benefits make them a worthwhile investment for homeowners ...



## Spain awards subsidies for 904 MW of energy storage projects

Awarded through a competitive bidding situation, these funds will subsidise the installation of a total of 904 MW of electrochemical energy storage systems mainly at solar and ...

## Spain's EUR700 Million Plan to Boost Energy Storage ...

It targets large-scale energy storage projects in Spain. It focuses on technologies like standalone battery energy storage systems (BESS), pumped hydro energy storage (PHES), and thermal energy storage. The program ...



## India launches pilot to pair coal plants with battery storage amid

With a 1.7 GW battery tender, NT PC tests coal-plus-storage in India, aiming to balance soaring solar output and evening demand without grid instability.

## Solar Energy in Spain 2025: Growth and Investment ...

Under the Renewable Energy Plan 2021-2030, Spain aims to achieve 74 GW of solar capacity by 2030. This plan includes incentives for investments in solar infrastructure, streamlined permitting processes, and ...



## Spain Launches EUR700 Million Energy Storage Scheme to ...

This new funding builds on earlier support under Spain's Recovery, Transformation and Resilience Plan (PRTR), which has already mobilized EUR730 million for 4.5 ...



## Spain sets new 2030 energy storage target of 22.5 GW

By 2030, Spain expects to install 22.5 GW of energy storage projects, including included battery energy storage, pumped hydropower and solar thermal plants. The plan also aims for 76 GW of solar power, 62 GW of ...



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