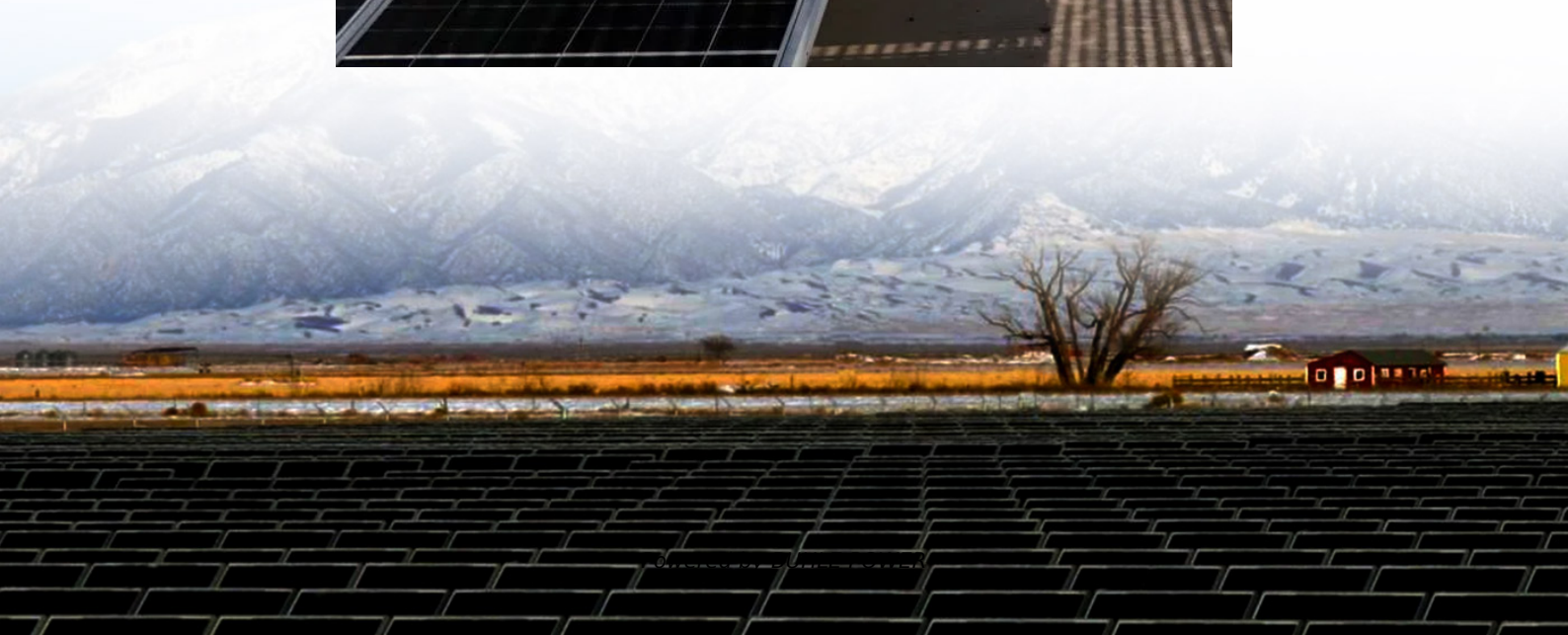


Spain wind solar and storage integrated project





Overview

Enlight Renewable Energy has announced the expansion of its Gecama Wind Project in Spain, transforming it into the largest hybrid power complex in the country by integrating wind, solar, and utility-scale battery storage. What is energy storage in Spain?

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 supports hybrid projects, which combine storage with renewable energy, such as solar or wind farms.

How will Spain increase its energy storage capacity?

Spain has launched an ambitious €700 million (around \$796 million) program to increase its energy storage capacity. This plan will add 2.5 to 3.5 gigawatts (GW) of storage. It includes pumped hydro, thermal energy storage, and battery systems.

Why should Spain invest in energy storage?

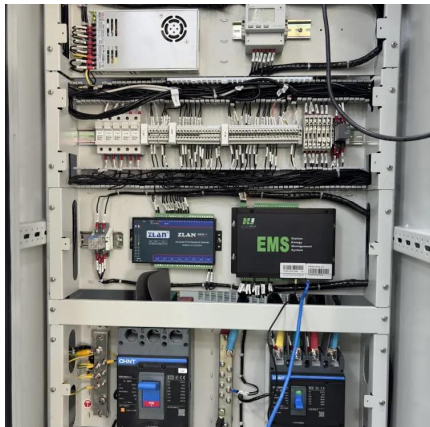
Investing in energy storage helps Spain meet its climate goals. This includes achieving carbon neutrality by 2050. Storing renewable energy instead of wasting it helps the country rely less on fossil fuels. This also cuts down greenhouse gas emissions. Pumped hydro, thermal storage, and battery systems are effective technologies.

What is Spain's largest wind farm?

Currently, it is the country's "largest" wind farm with a capacity of 329MW, the firm said. The project is expected to reach commercial operation in the second half of 2026. "With the financial close at Gecama, Enlight expands one of its core assets into Spain's first hybrid complex of its kind," said Gilad Yavetz, CEO of Enlight.



Spain wind solar and storage integrated project



[The latest developments in the Spanish ...](#)

1 day ago · Development Status Spain has been one of the leaders in Europe's renewable energy sector, investing heavily in solar and wind ...

[Enlight Renewable Energy Expands Gecama Wind Project to Form Spain...](#)

Jun 3, 2025 · Enlight expands Gecama Wind Project into Spain's largest hybrid power complex, integrating wind, solar, and battery storage technologies.



[Spain second country in world for stand-alone battery-based ...](#)

Dec 20, 2024 · 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 field ...

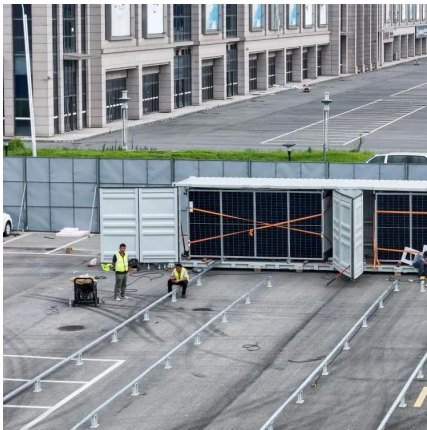
[Wind, Solar, Storage Heat Up in 2025](#)

Jan 15, 2025 · This year, massive solar farms, offshore wind turbines, and grid-scale energy storage systems will join the power grid.



[Spain Launches EUR700 Million Energy Storage Program to...](#)

Jun 4, 2025 · The storage solutions will help balance Spain's increasingly renewable electricity supply, storing excess solar and wind power when demand is low and releasing it when ...



[Enlight gains \\$310m for Spanish hybrid ...](#)

Jun 4, 2025 · Enlight secures \$310m for Spanish hybrid renewable energy facility The project will integrate a solar array and utility-scale energy ...



[Enlight secures US\\$310 million for hybrid ...](#)

Jun 4, 2025 · Enlight Renewable Energy is expanding its Gecama Wind Project in Castilla-La Mancha, Spain, by integrating solar PV and BESS.





[Spain Launches EUR700 Million Energy Storage Scheme to ...](#)

Jun 3, 2025 · 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 GW of storage ...



[Integrating Solar and Wind](#)

Sep 17, 2024 · This report calls for strategic government action, enhanced infrastructure, and regulatory reforms to ensure the successful large-scale integration of solar PV and wind in ...

[Enlight adds PV, BESS to Spain's largest wind ...](#)

Jun 5, 2025 · Enlight Renewable Energy is expanding its Gecama Wind Project in Spain, by integrating solar PV and battery energy storage ...



[Spain's EUR700 Million Plan to Boost Energy ...](#)

Jun 3, 2025 · It targets large-scale energy storage projects in Spain. It focuses on technologies like standalone battery energy storage systems ...



[Spain Receives Green Light for EUR700 Million Energy Storage ...](#)

Mar 19, 2025 · The approved program offers a flexible approach, supporting a variety of energy storage deployments. Eligible projects include standalone energy storage facilities, integrated ...



[Enlight Secures \\$310M for Hybrid Renewable Project in Spain](#)

Jun 6, 2025 · Enlight secures \$310M to add solar and battery storage to Spain's largest wind farm, creating the country's biggest hybrid renewable energy complex.



[Enlight adds PV, BESS to Spain's largest wind farm](#)

Jun 5, 2025 · Enlight Renewable Energy is expanding its Gecama Wind Project in Spain, by integrating solar PV and battery energy storage systems (BESS).



[Spain Launches EUR700 Million Energy Storage ...](#)

Jun 4, 2025 · The storage solutions will help balance Spain's increasingly renewable electricity supply, storing excess solar and wind power when ...



[Solar-plus-storage project with 200MWh ...](#)

Jan 5, 2023 · A Madrid-headquartered developer has proposed a solar-plus-storage system in Spain with a 100MW/200MWh battery energy storage ...

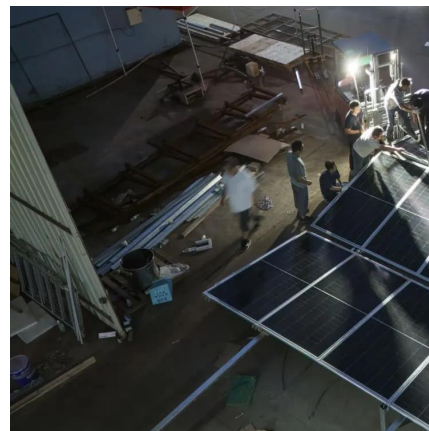


[Nadara's first Spanish hybrid solar-wind project begins ...](#)

21 October 2025, Madrid, Spain - Nadara, Europe's largest independent power producer (IPP) of onshore wind, has started construction of the solar hybridisation module of the existing wind ...

[Solar Energy News in Spain](#)

Nov 17, 2025 · This category presents solar power news from Spain. Major suppliers in the market, recent solar projects, investments and grants, emerging markets, trends and ...



[Enlight secures US\\$310 million for hybrid wind-solar-storage ...](#)

Jun 4, 2025 · Enlight Renewable Energy is expanding its Gecama Wind Project in Castilla-La Mancha, Spain, by integrating solar PV and BESS.



[Spain's EUR700 Million Plan to Boost Energy Storage and ...](#)

Jun 3, 2025 · It targets large-scale energy storage projects in Spain. It focuses on technologies like standalone battery energy storage systems (BESS), pumped hydro energy storage ...



[Spain awards 133 energy-storage projects totaling 2.4 GW ...](#)

Dec 1, 2025 · Spain's Institute for the Diversification and Saving of Energy confirmed EUR827 million (\$961.4 million) in European Regional Development Fund co-financing for 133 energy-storage ...

[Enlight gains \\$310m for Spanish hybrid renewable energy ...](#)

Jun 4, 2025 · Enlight secures \$310m for Spanish hybrid renewable energy facility The project will integrate a solar array and utility-scale energy storage system with the existing Gecama wind ...



[Spain renewables projects strengthen Europe ...](#)

Dec 4, 2023 · Three Spanish projects strengthen Europe's energy autonomy with solar and wind capacity and transmission networks.



[Enlight Secures \\$310M for Hybrid Renewable ...](#)

Jun 6, 2025 · Enlight secures \$310M to add solar and battery storage to Spain's largest wind farm, creating the country's biggest hybrid renewable ...



[Spain targeting 56 GW of new solar by 2030 ...](#)

Jun 29, 2023 · 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. ...

Contact Us

For technical specifications, project proposals, or partnership inquiries, please visit:
<https://www.bukhobuhle.co.za>

Scan QR Code for More Information



<https://www.bukhobuhle.co.za>