

## According to Data Presented by Red Eléctrica Today

# Castilla-La Mancha broke its renewable energy generation records in 2023

**66.5% of the electricity generated in 2023 in the region came from renewable sources, and 93.7% of it did not emit CO<sub>2</sub> equivalent (greenhouse gases)**

**Solar photovoltaic energy increased its contribution by 42.3% during 2023, achieving a historic high**

**Castilla-La Mancha is the region that installed the most renewable megawatts in 2023**

Toledo, 21 March 2024

Renewable electricity generation in Castilla-La Mancha accounted for 66.5% of total energy generated in the region in 2023, shattering the autonomous community's historical renewable records.

These are some of the findings derived from the [Spanish Electricity System Report 2023](#) and the [Renewable Energy Report 2023](#), documents by Red Eléctrica that compile last year's main industry figures for our country.

According to Beatriz Corredor, president of Redeia (Red Eléctrica's parent company), "the figures for 2023 prove that Spain has consolidated its renewable leadership. This has been made possible by efforts in system operation and our extraordinary transmission grid, which have allowed our country to safely reach a share of 50% renewables in the mix. The grid is and will continue to be ready to meet the objectives of the National Integrated Energy and Climate Plan (PNIEC)."

For the seventh year in a row, wind power was once again the technology that contributed the most GWh to Castilla-La Mancha's regional generation structure, with a share of 31.5% of the total, followed by solar photovoltaic, which increased its production by 42.3% and accounted for 29.8% of the total.

Both photovoltaic generation and total renewable generation in 2023 were the highest in the autonomous community. Furthermore, the 19,006 GWh produced in Castilla-La Mancha in 2023 (14.1% of the total national renewable) make this region the second-largest producer of renewable energy in the country.

All in all, 93.7% of the electricity in Castilla-La Mancha was emissions-free in 2023, the highest share of its total production recorded so far.

These renewable energy figures were achieved thanks to favourable weather conditions and a 21.2% increase in installed renewable power in the region in 2023, reaching a quota of 83.8%. Therefore, it was the autonomous community to install the most MW from renewable sources, with the addition of an extra 2,024 MW from solar photovoltaic power and 97 MW from wind power. 24% of all photovoltaic MW in service in Spain are located in Castilla-La Mancha.

The demand for electricity in Castilla-La Mancha in 2023 stood at 11,562 GWh, 1.3% less than that recorded in 2022. This demand represents 4.7% of the national total in 2023.

### **The Year 2023 in Spain: Renewables Break Records**

In Spain in 2023, installed solar photovoltaic power increased by 28%, bringing an additional 5,594 MW to the Spanish generation pool, the highest figure since records began. As a result, this technology now has 25,549 MW in service, representing 20.3% of the Spanish generation pool. This year-on-year increase means that our nation is the second among ENTSO-E countries in terms of the highest installed solar power output (both thermal and photovoltaic).

Spain ended 2023 with more than 125.6 GW of total installed power, with renewables constituting 61.3% of this total. Thus, in 2023, the renewable production pool grew by 8.8%, thanks not only to the new photovoltaic MW mentioned, but also thanks to the addition of 661 MW of wind power and 4 MW from other renewable sources. In Spain's national ranking, wind power is still the technology that accounts for the largest proportion, 24.5% of power, followed by combined cycle (20.9%), photovoltaic power (20.3%), and hydropower (13.6%), which increased its contribution by 41.1% compared to the previous year, given that 2022 was exceptionally dry.

According to the documents presented today, 2023 will also be remembered as the year when all historical renewable generation records were shattered, as over half of the electricity mix (50.3%) came from natural resources such as wind, sun, or water.

In 2023, Spain produced 15.1% more renewable energy than the preceding year, totalling 134,321 GWh. Two technologies were the main contributors to this historic milestone: wind power, leading the mix with 23.5% of the total, and photovoltaic power, which produced 33.8% more than in 2022.

As a direct consequence of the rise in renewable energy production, 2023 also witnessed the lowest CO<sub>2</sub> equivalent emissions (greenhouse gases): 32,045,711 tCO<sub>2</sub> equivalent, nearly 28% less than the previous year.

In its Spanish Electricity System Report 2023, Red Eléctrica also analyses other metrics such as developments in demand, which in 2023 were 1.9% lower than in 2022 after adjusting for employment activity and temperatures. In gross terms, electricity demand in 2023 stood at 244,665 GWh, marking a 2.3% decrease, while electricity consumption across ENTSO-E countries experienced a 3.3% decrease compared to 2022.

Additionally, the transmission grid availability index in the Spanish mainland system reached 97.62%, closely mirroring the values recorded in the electricity systems of the Balearic and Canary Islands, which stood at 97.84% and 98.93%, respectively.