

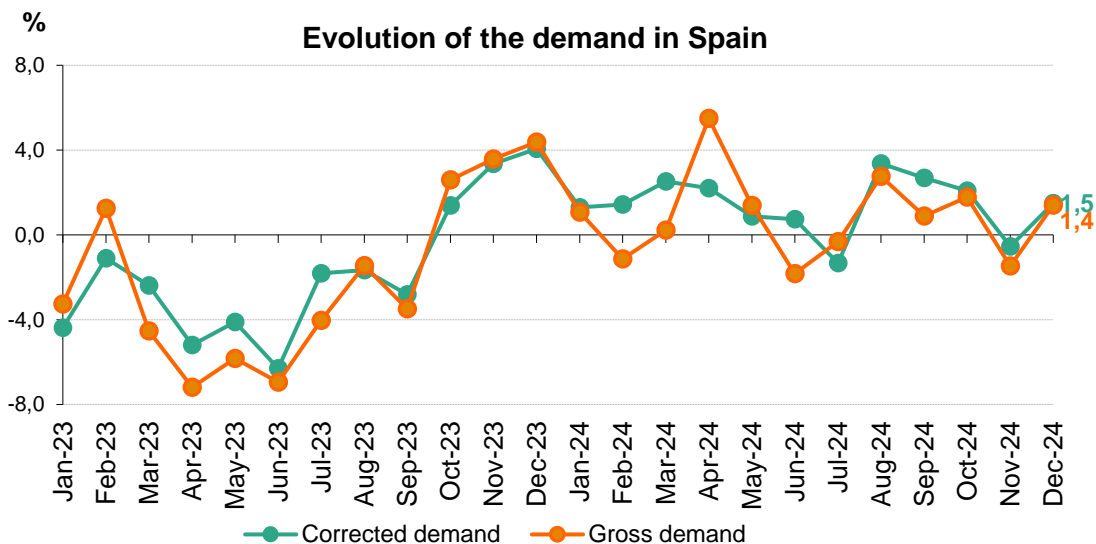
Electricity demand in Spain increases by 1.5% in December

During December of this year, renewables comprised 47.6% of total electricity generation, with wind power leading the national energy mix

In 2024, renewables accounted for 55.8% of Spain's total energy mix, as anticipated by Red Eléctrica in its year-end estimates

Madrid, 03 January 2025

National electricity demand rose by 1.5% in December compared to the same month last year, after adjusting for the effects of temperatures and working patterns. This represents an estimated gross demand of 21,473 GWh, 1.4% higher than in December 2023.

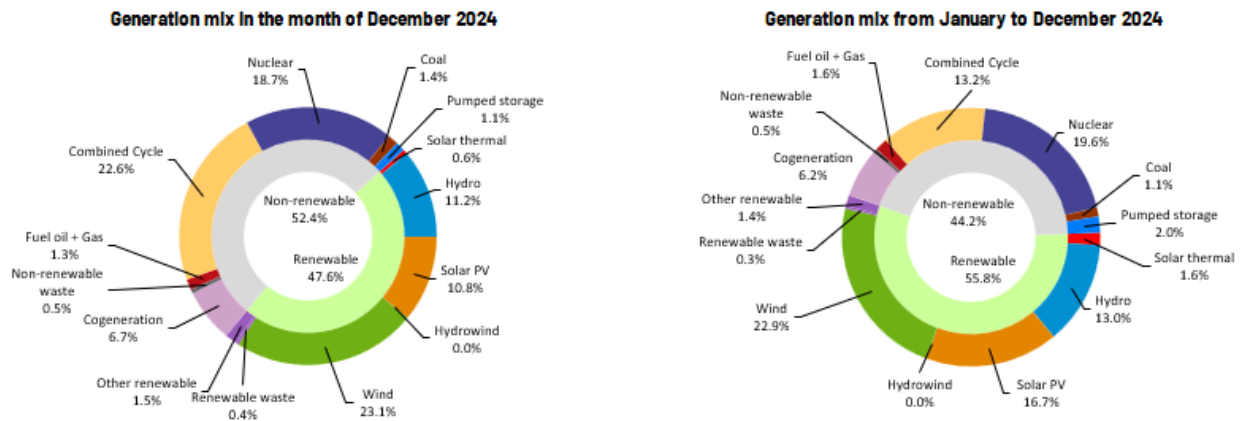


In the aggregate for 2024, Spain recorded a total demand of 247,038 GWh, 0.8% higher than in the same period of 2023. After adjusting for the effects of working patterns and temperatures, demand was 1.4% higher compared to the previous year.

This December, renewables generated 10,798 GWh, accounting for 47.6% of the total. 67.1% of the electricity produced was generated without emitting any CO₂ equivalent.

The leading source of electricity generation for the month was once again wind power, with a share of 23.1%. It was followed by the combined cycle (22.6%), nuclear power (18.7%), and hydroelectric power generation, which contributed 11.2% of the total. On the other hand, solar photovoltaic energy grew by 30.6% in December, accounting for 10.8% of the energy mix.

In total for 2024, renewables accounted for 55.8% of Spain's total energy mix. This figure is in line with the year-end estimates published by Red Eléctrica.



Peninsular demand in December

Peninsular demand was 1.3% higher than in December 2023 after adjusting for the effects of working patterns and temperatures. Gross demand for this month was 20,225 GWh, a 1.2% increase compared to the same month last year.

In the aggregate for this year, demand in the Peninsula stood at 231,808 GWh, 0.8% higher than that recorded in 2023. After adjusting for the effects of working patterns and temperatures, demand in the Peninsula was 1.4% higher compared to the previous year.

Total generation from renewable energy on the Peninsula this December reached 10,631 GWh, with a share of 49.5% of total Peninsular production. Emission-free technologies accounted for 70% of the total.

The peninsular generation structure for December was also led by wind power, which accounted for 23.9% of the total. It was followed by the combined cycle with 20.7%, nuclear power with 19.7%, and hydroelectric power generation, which represented 11.8% of the total.

The electricity system in the Balearic and Canary Islands

In the Balearic Islands, electricity demand in December was 5.3% higher than in the same month in 2023, after adjusting for the effects of working patterns and temperatures. Gross demand is estimated at 454,421 MWh, 8.5% higher than in December of last year. In the aggregate for 2024, gross demand in the Balearic Islands is estimated at 6,027,107 MWh, 0.4% higher than in 2023. After adjusting for the effects of working patterns and temperatures, demand in the Balearic Islands in 2024 was 1.6% higher than the previous year.

In terms of electricity generation, the combined cycle—which accounted for 77.9% of the energy produced in the Balearic Islands—was the leading source this month. Meanwhile, renewable energy generation in the Balearic Islands accounted for 10.3% of the total. Renewable generation in the Balearic Islands grew by 19.8% in December compared to the same month last year.

Additionally, this December, the submarine link between the Peninsula and Mallorca helped cover 17.2% of the Balearic Islands' electricity demand.

Meanwhile, in the Canary Islands, electricity demand rose by 3.1% compared to the same month in 2023, after adjusting for the effects of working patterns and temperatures. Gross demand was 760,267 MWh, representing a 3.6% increase. In total for 2024, demand in the Canary Islands was estimated at 8,811,286 MWh, 0.6% higher than in the same period of 2023. After adjusting for the effects of working patterns and temperatures, demand in the Canary Islands in 2024 was 1% higher compared to the previous year.

In terms of electricity generation in the Canary Islands, the combined cycle, was also the leading source in December—with 51.8% of the total. Renewables accounted for 16.8% of electricity generation, producing 128,068 MWh, a 33% increase compared to the same month last year. Wind power contributed 13.2% of total electricity generation this month.

Please see our [Daily balance report](#) for further information on the [national](#), [peninsular](#), [Balearic Islands](#), and [Canary Islands](#) electricity systems up to the end of December.