

# Spain for **Renewable Energy**

A large solar panel array is shown tilted on a hillside. The panels are arranged in rows and are covered with a red color overlay. The background is a bright, hazy sky.

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# Why Spain for *Renewable Energy?*



Spain has issued its first Energy Transition Law (May 2021). It establishes the following goals:

### **By 2030**

Reduce greenhouse gas emissions by at least 23%.

Achieve a penetration of renewable energy in final energy consumption of at least 42%.

Achieve an electricity system with at least 74% renewable generation.

### **Before 2050**

Climate neutrality

The electricity system must be based exclusively on renewable sources.



Power capacity growth for the main renewable sources is (period 2020-2030) as follows:

**Wind Power** 2.2 GW/year

**Solar Power** 3 GW/year

**Biomass power** 80 MW/year



In addition to promoting renewable energy, the law limits or prevents the award of new licenses for extraction and fracking activities and leading to a fair transition for regions that are coal industry-dependent. It also stipulates greater flexibility for new concessions to establish mechanisms that allow the integration of renewable energies.

This challenge involves increasing alternative energy use, and with it, job creation and economic growth opportunities.



Spain generated 109,269 GWh of renewable energy in 2020, 43.6% of the total annual amount generated (11.6% more than the previous year).



The latest RECAI (EY) index, which ranks countries on the attractiveness of their renewable energy investment and deployment opportunities, lists Spain as 10<sup>th</sup> highest in the world (4<sup>th</sup> highest in the EU).



All these circumstances make Spain an excellent destination to invest in renewable energy.



## Facts & Figures



### Solar power industry

Growth forecast: from 4.8GW (2015) **to +36 GW** (2030).

Spain has **one of the highest levels of solar irradiation in Europe**: 2,150 kWh/kWp (Germany: 1,070 kWh/kWp; United Kingdom: 950 kWh/kWp).

**Number of jobs** in Spain tied directly or indirectly to solar power industry in 2019: **21,370**.

International export business:

- Presence in 72 countries.
- Net export balance of €800 million (2018).
- Engineering and installation companies are the largest group of businesses, totalling 52% of exports.



### Wind power industry

Broad technological, industrial, R&D and business base.

227 industrial centres associated with the industry, 20 research centres and 9 universities related to wind power technology.

**The world's third-largest exporter of wind turbines** (€2.306 billion in 2019)

Spanish companies have a major presence abroad in all markets. Consolidated growth in the European Union, the United States, Canada, Mexico, China, Australia, India, etc.



### Self-consumption

Spanish legislation recognises **renewable energy self-consumption** as an essential aspect of the transition to clean sources of energy.

Recent administrative and technical simplification to foster and encourage renewable energy self-consumption.

With the recent introduction of more favourable legislation, solar power self-consumption is expected to grow at a rate of **300-400 MW a year** and installed capacity levels will reach the levels of other EU countries.

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