

BUSINESS AREA 7



Energy

Spain is one of the European countries with the most hours of sunshine, making it a prime producer of solar energy.

On a global scale, Spain is the world's fifth biggest producer of wind power, with 23 GW of generation (covering 18% of demand) and increasing penetration levels 20% and remains a leader in the generation of thermoelectric solar energy. At a worldwide level, the country is one of the most advanced in the development of solar energy and the fourth largest manufacturer of solar power technology. Spain added a record 3.2 GW of solar power in 2020, increasing capacity to 8.6 GW, 4-fold the figures from 10 years ago. Furthermore, Spain is the world leader in CSP (Concentrated Solar Power), with 2.3 GW.

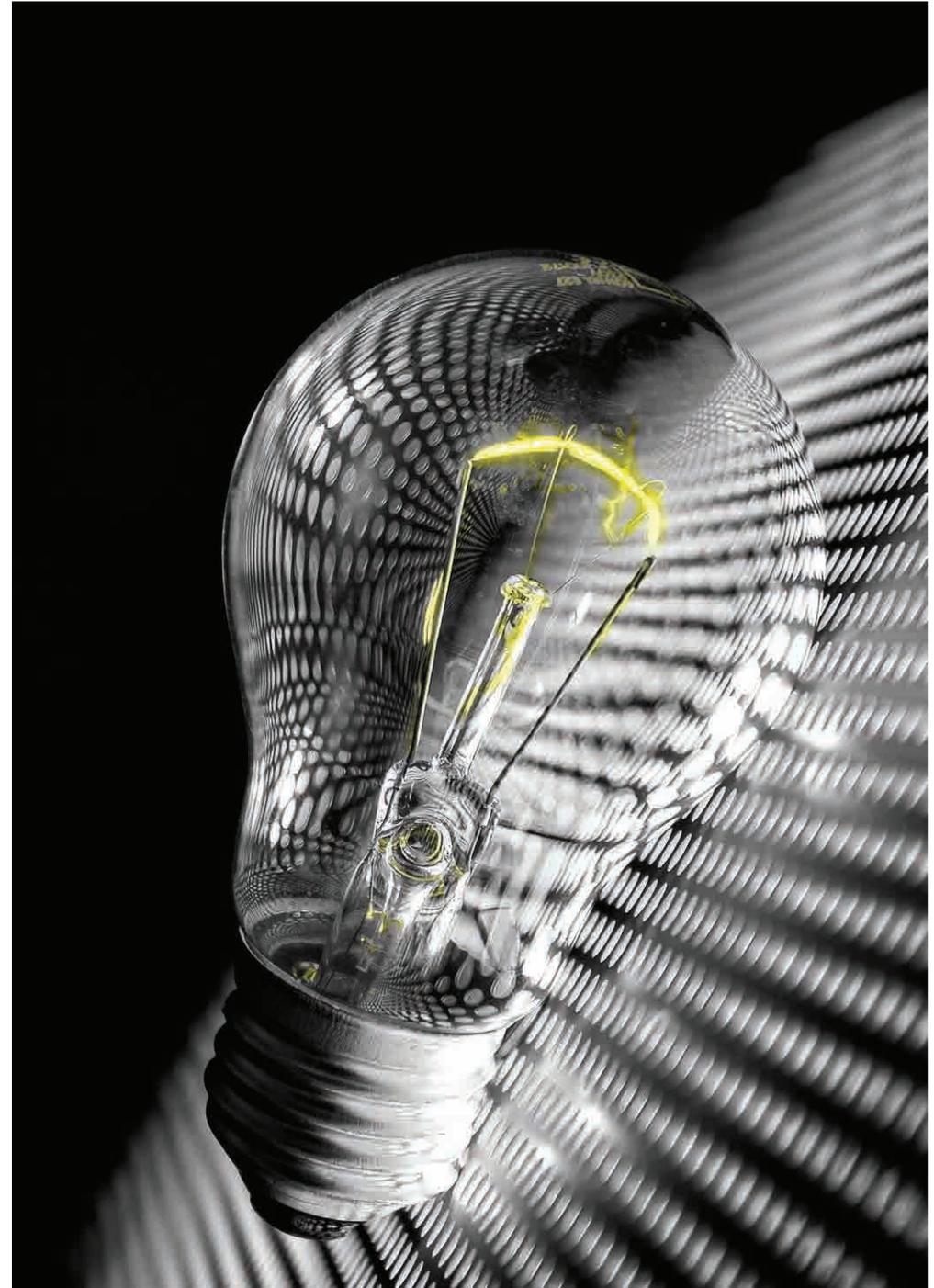
Spain in general, Murcia specifically, have optimal conditions for the development of all self-consumption methods. Considering the high price of energy generation in some geographical areas, this is a very interesting option in terms of cost. The main feature of the renewable energy sector in Murcia is its diversification.

Murcia projects that 75% of the consumed energy in the region comes from renewable sources. The region currently has 5,110 photovoltaic facilities, accounting for 9.2% of all solar energy generated in Spain. These facilities have an accumulated power generation of 440.63MW, placing Murcia as the main Spanish region in terms of installed power density per km².

67% of primary power sources generate biomass residues which can be treated and used for various forms of energy storage. In Murcia, compared to other Spanish regions, the use of geothermal energy has increased above the national average, accounting currently for nearly 7% of all thermal production.

As for photovoltaic, Spain is the 4th worldwide producer, with Murcia being the 1st region in number of photovoltaic installations per km² at 33 kW/km² (8.26 kW/km² in the rest of the country)

To accommodate an increasing power demand and electrify our modern infrastructures, including EVs and the high speed train, 400-kV and 22-kV switchyards have been extended and upgraded. Furthermore, the country's policy to further boost the use of renewables makes a region a perfect place to develop your power-generating project. If you have project, Murcia can power it!

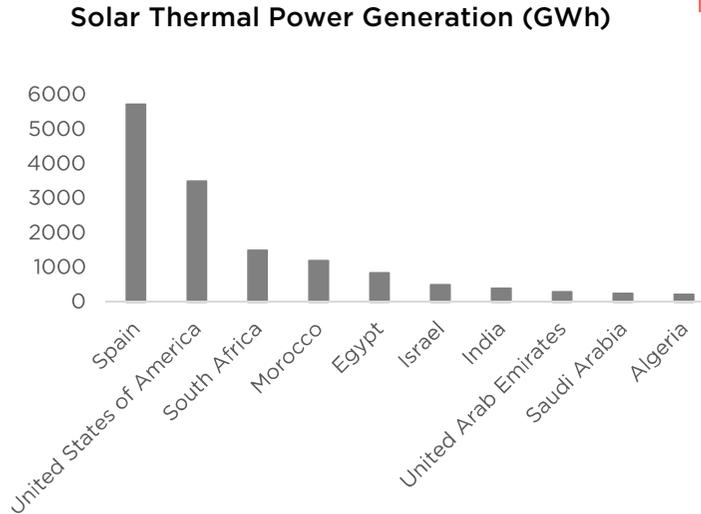


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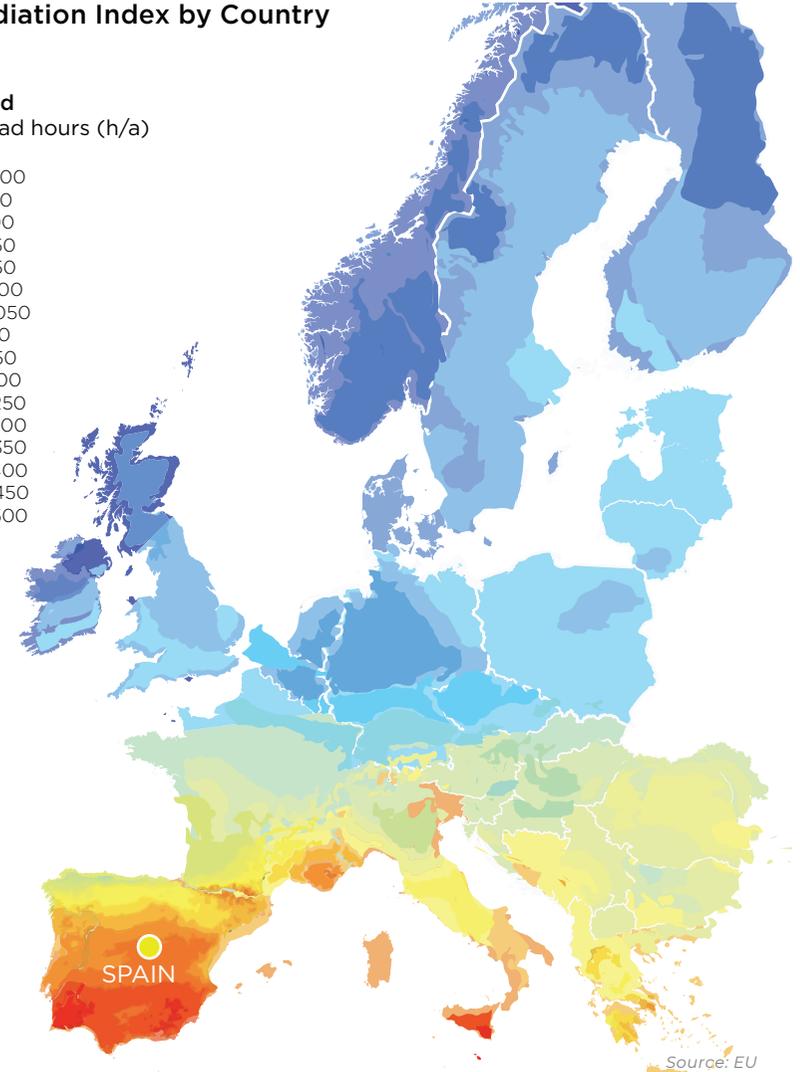
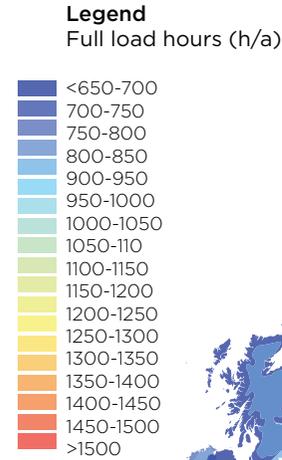
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The largest self-consumption solar power plant in the world (100MW) will be built in Murcia, a collaboration project between two investing companies in Murcia: **Iberdrola** and **Sabic**



Source: IRENA

Solar Radiation Index by Country



Source: EU

INDUSTRY HIGHLIGHTS

In terms of concentrating solar thermal energy generation, Spain is the 1st worldwide producer, with Murcia being a key contributor. The excellent characteristics of our region for renewable power generation have attracted important investment to our region, such as that of **Soltec**, third solar tracker producer worldwide which has established its headquarters in Molina de Segura.

Other important companies operating in our region are **Repsol**, one of the main utilities in Europe which has its largest plant in Cartagena; **Iberdrola**, which owns combined cycles, wind farms and solar plants throughout our region; **Redexis Gas**, an important gas supplier; **X-Elio**, global company specializing in photovoltaic plants; **Andaltia** with key renewable projects, and **Engie**, owner and operator of 3 gas turbines in Escombreras.

Murcia is one of the leading Spanish regions in the transition to cleaner, more sustainable forms of energy, including green hydrogen.