

Renewables 2022 Global Status Report

Spain Factsheet

Key Headlines:

- Spain is a global leader in solar and wind
 - Spain hit a new record for new solar PV installation in 2021 with 4.9 GW of solar capacity added in 2021, 44% more than in 2020 (3.5 GW) raising Spain's total capacity to 18.5 GW with annual growth of 36.7%. The country ranked 2nd in Europe for new additions (after Germany) and 7th globally.
 - Spain alone accounted for 3% of global solar PV addition in 2021.
 - Spain remained the global leader for cumulative concentrated solar thermal power (CSP) capacity in operation, with 2.3 GW at the end of 2021.
 - Spain had the highest share (14.2%) of solar PV annual generation after Australia in 2020.
 - Spain ranked second in Europe for total wind power capacity (28.2 GW), after Germany, and 5th globally.
 - The Spanish government approved a Renewable Hydrogen Roadmap with the core objective of achieving climate neutrality, with a 100% renewable electricity system, by 2050.
- Investment
 - Spain announced a plan to allocate EUR 6.9 billion (USD 7.8 billion) to renewables and related technologies (including renewable hydrogen, storage and electric mobility).
- Renewable energy policies and fossil fuel phase-out
 - In public buildings, Spain committed to forbid the purchase of boilers using fossil fuels, in order to foster the use of renewable energies within the central administration.
 - Pledged to ban coal-fired power generation alongside 50 national and subnational jurisdictions globally as part of COP26 Global Coal to Clean Power Transition statement.
 - In 2021, Spain enacted a law prohibiting the sale of fossil fuel vehicles by 2040.

SPAIN ENERGY STATISTICS

GDP	1042.82 (1281 USD) billion euros as of 2020
Population	47,350,000
USD invested in renewables in the region	Europe invested 79.7 billion USD in renewables in 2021, equivalent to the GDP of Luxembourg in 2020.
Total installed capacity of renewable power	64.6 GW - Enough to power Poland, a growing trend (6.6 GW additions in 2021).
Renewable energy developments in past 10 years	Renewable energy share in final energy demand increased by 37% between 2009 and 2019.

RENEWABLE ENERGY POLICY SITUATION IN SPAIN

Indicator	Sector and year
Renewable energy targets	<ul style="list-style-type: none"> • Economy-wide RE: 42% by 2030, 97% by 2050. • Power: 74% by 2030 and 100% by 2050. • Heating and cooling: 25% by 2025 and 31% by 2030. • Transport: 15% by 2025 and 28% by 2030. Spain enacted a law prohibiting the sale of fossil fuel vehicles by 2040.
Net-zero target	Climate neutrality by 2050.
Renewable energy policies	
<i>New policies in 2021</i>	<ul style="list-style-type: none"> • Fossil fuel ban in public buildings as well as financial incentives in the heating sector focused on solar thermal and heat pumps. • Pledged to ban coal-fired power generation.
City /subnational targets	<ul style="list-style-type: none"> • More than 31 Spanish cities with RE, P, H&C or T targets in 2021. • Around 23 Spanish cities with net-zero targets, 2 of which were new or revised in 2021 (Madrid and Valencia).
City / subnational policies	<ul style="list-style-type: none"> • Around 63 cities with 70 RE, P, H&C or T policies in 2021, mostly renewable energy mandates¹.

¹ Including electricity obligations such as renewable energy technology installation and building codes.

	<ul style="list-style-type: none"> • ICE vehicle bans/restrictions passed in Barcelona and pledged in Madrid.
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GLOBAL RANKINGS

Total renewable power capacity, end-2021 (GW)	Renewable power capacity per person, not including hydropower, end 2021 (GW)	Leaders in renewables share in total final energy consumption, end 2019 (%)
1. China	1. Iceland	1. Iceland
2. USA	2. Denmark	2. Norway
3. Brazil	3. Germany	3. Sweden
4. India	4. Sweden	4. Tajikistan
5. Germany	5. Australia	5. Brazil
8. Spain	7. Spain	29. Spain

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