

Wind and solar power in Chile

The role of solar PV, wind energy, and storage technologies in the transition toward a fully sustainable energy system in Chile by 2050 across power, heat, transport and desalination sectors

In October 2015 Chile's Ministry of Energy announced its "Roadmap to 2050: A Sustainable and Inclusive Strategy", which planned for 19% of the country's electricity to be from solar energy, 23% ...

Chile has curtailed a record 5,909GWh of solar PV and wind power in 2024, up 121% from the previous year, according to trade body ACERA.

The rapid growth in renewables in Chile has been provided by solar and wind, which currently account for 21% and 12% of generation, respectively. Their share has more than doubled ...

The report identifies several causes behind Chile's high curtailment levels, including overloaded transmission lines, rigid dispatch protocols, inflexible market design, and insufficient ...

Solar power in Chile is an increasingly important source of energy. Total installed photovoltaic (PV) capacity in Chile reached 11.05 GW in 2023. In 2024, Solar energy provided 19.92 TWh of electricity generation in Chile, accounting for 22.3% of total national electricity grid generation, compared to less than 0.1% in 2013. In October 2015 Chile's Ministry of Energy announced its "Roadmap to 2050: A Sustainable and Inclusive...

Despite these setbacks, the future of renewable energy in Chile appears promising, with 30.2 gigawatts (GW) of projects having received environmental approval across various technologies.

Electricity generation from solar PV and wind power reached a record level in 2025, marking their highest participation to date in Chile's National Electric System. The milestone further ...

Hydropower is also a notable source of renewable energy in Chile, although less popular than wind and solar power given prolonged drought and general concerns with water management. ...

Chile's current energy mix includes solar power, wind power, and hydropower, which all have more than a 20% share of annual generation. Ember, an energy think-tank, said renewables...



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