



Solar powered house generator in Chile





Overview

In November 2024, Chile's solar power generation capacity was projected to quadruple until 2060, in order to help decarbonize Chile's electricity generation. Energy storage will play a key role in taking in excess supply during the day and releasing it during the night. Chile has decided to use its abundant sun and wind to phase out coal-fired power by 2040 and achieve carbon neutrality by 2050. Its PV capacity was 2137 megawatt and it increased to 3104 megawatts by July 2020 with yet. Owned by Global Power Generation, a Naturgy Group subsidiary, and the Ibereolica Group and boasting an installed capacity of 206 MW, the Cabo Leones II Wind Farm began injecting energy into Chile's National Electricity Grid (SEN) on 10 October of 2020 with the connection of its first unit to the grid. First Solar announced that its 141-megawatt (MW) AC Luz del Norte photovoltaic (PV) power plant is the world's first known utility-scale solar facility licensed to deliver ancillary grid services commercially. Chile's independent system operator (ISO), Coordinador Eléctrico Nacional, recently added. Chile is rapidly moving to build more power generation capacity, with much of that effort focused on renewable energy resources and battery energy storage systems (BESS). The country as part of that ambition has a goal of producing at least 70% of its electricity from renewable energy by the end of 2025. In 2024, Solar energy provided 19.92 TWh of electricity generation in Chile, accounting for 22%. Located in the region of Antofagasta, known for having one of the highest irradiation levels in the world.



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The project is located in Maria Elena municipality, in the Antofagasta region in Chile. It is expected to be one of the country's largest solar and storage projects once fully operational.



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Solar power in Chile



Due to its high solar potential, solar power developments will likely grow most in the north. Solar generation is expected to contribute 46% of Chile's electricity in 2060.



Projects in Chile

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