# Chilean concentrated solar power plant

Is a concentrated solar power plant bringing Latin America to the forefront?
The new concentrated solar power plant in Chile is bringing Latin America to the forefront,says Maximiliano Proaño. The solar power plant Cerro Dominador in Chile (Photo by Ministra visita planta fotosolar Cerro Dominador; CC BY 2.0)

Where is Cerro Dominador solar power plant located?
Cerro Dominador Solar Power Plant (Spanish: Planta Solar Cerro Dominador) is a 210- megawatt (MW) combined concentrated solar power and photovoltaic plant located in the commune of María Elena in the Antofagasta Region of Chile, about 24 kilometres (15 miles) west-northwest of Sierra Gorda.

Where is the concentrating solar power plant located?
The Concentrated Solar Power plant occupies 1,000 hectares and is located in northern Chile's Cerro Dominador. This area has the highest level of solar incidence in the world and is the site of Latin America's first solar thermal plant.

Where does solar power come from in Latin America?
The solar power plant Cerro Dominador in Chile (Photo by Ministra visita planta fotosolar Cerro Dominador; CC BY 2.0) Currently, the Latin American electricity mix is dominated by hydropower (which generates around 50% of all electricity).

What is a concentrated solar power plant?
Each one measures 140 square meters and weighs about three tons. Their function is to follow the sun's trajectory, reflecting and directing the radiation towards the receiver and converting it into energy. The Concentrated Solar Power plant occupies 1,000 hectares and is located in northern Chile's Cerro Dominador.

Why is Chile a great place to harness solar energy?
Chile has one of the best locations to harness solar energy and this technology is ideally placed to bring solutions to the country by providing clean,reliable power operating 24 hours a day. We are meeting the commitments made and are excited to be contributing to Chile's energy agenda. Solar Magazine spoke with González to learn more.

Concentrated solar power (CSP) is an interesting alternative to help achieve those objectives, as it is estimated that northern Chile has high radiation levels, coupled with the high values of the ...

Thanks to IKI funding the concentrated solar power (CSP) plant Cerro Dominador in Chile"s Atacama Desert started operations in early June this year. Despite its many natural advantages, Chile made little use of wind and solar power until ...

DOI: 10.1016/J.ENERGY.2015.11.015 Corpus ID: 110088233; 2050 LCOE (Levelized Cost of Energy) projection for a hybrid PV (photovoltaic)-CSP (concentrated solar power) plant in the ...

Latin America"s first, utility-scale concentrating solar power (CSP)-thermal energy storage project in Chile will be completed in 2019"s second half, and its associated 17 hours of molten salt thermal energy storage capacity will enable ...

The announcement was given by the Chilean association Asociación de Concentración Solar de Potencia (ACSP), which revealed that the bid relates to the 390 MW Likana Concentrated Solar Power (CSP ...

Aerial view of Cerro Dominador, the first concentrated solar power plant in Latin America, in Antofagasta, Chile. The imposing 240-meter construction is one of the pillars of the ambitious Chilean green energy ...

eliminating coal-fired plants by 2040; achieving carbon neutrality by 2050; and; optimising energy generation and transmission to increase the flexibility and resilience of the national energy ...

This report about the sizing and design optimization of a concentrated solar power tower plant in Chile was written by four students from Politecnico di Milano. It is created as part of the ...

Request PDF | On Jan 1, 2016, C. Parrado and others published 2050 LCOE (Levelized Cost of Energy) projection for a hybrid PV (photovoltaic)-CSP (concentrated solar power) plant in the ...

A huge 250-meter-high receiver tower in the middle of the Atacama Desert is the symbol of an innovative project that is destined to become one of the main postcards of renewable energies ...

The Cerro Dominador CSP plant has a 17.5 hour thermal storage capacity using molten salts and is capable of generating clean energy that can be managed 24 hours a day. The solar field covering 700 hectares has 10,600 heliostats that ...

The site is in the commune of María Elena in the Antofagasta Region of Chile, about 24 kilometers west-northwest of Sierra Gorda. The associated 100 MW PV project on the site began operation in 2018. ... Automatic heliostat learning for ...

Storing renewable energy in Chile. In the Atacama Desert in northern Chile, there is a project that has obtained the attention of energy experts worldwide: it is the first concentrated solar plant (CSP) of Latin America called ...

concentrated solar power plants, therefore accomplishing a low levelized cost of energy. The best zone is located among the Arica and Parinacota region and the northern part of the Coquimbo ...

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Net Energy Analysis of Hybrid concentrated solar thermal power plants in Chile: A selection methodology for optimal plant location based on sustainability attributes. MSc ...

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