



LUZ DEL NORTE SOLAR PARK CHILE

**Harnessing the abundant sunshine of
Northern Chile to power the nation**



The Luz del Norte Solar Park is a 141 MW grid-connected, solar photovoltaic (PV) power plant that takes advantage of the North Chilean sun to generate more than 380,000 MWh of clean, renewable energy for the central grid (SIC) every year, displacing fossil fuel-generated energy.

The Context

Chile has lots of potential for renewable energy generation, particularly in its sunny north. The solar potential of Chile's northern regions was previously disconnected from its more populous centre states, but the recent integration of Chile's SIC and SING grids mean it is now possible to supply electricity generated in the country's north to other regions.

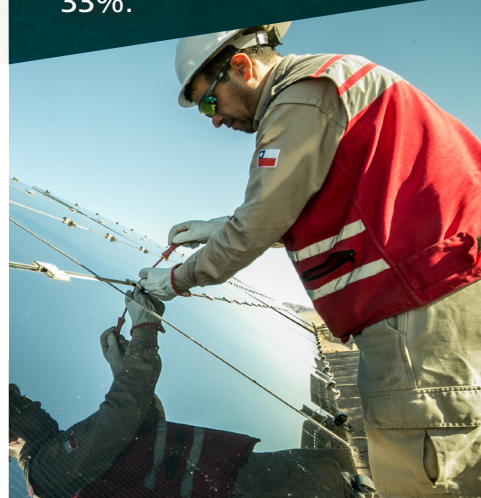
The Project

Making the most of Northern Chile's abundant sunshine, the Luz del Norte Solar Park is a 141 MW capacity, grid-connected solar photovoltaic (PV) power plant spread across 456 hectares. The project consists of First Solar cadmium telluride (CdTe) thin-film solar PV modules that absorb and convert sunlight into electricity. The solar farm supplies renewable energy to the central grid (SIC) via a 220 kV extension of the Carrera Pinto substation.

The Benefits

The Luz del Norte Solar Park increases the share of renewable energy in Chile's electricity mix, further displacing polluting, finite fossil fuel-generated power with a clean and abundant alternative. In doing so, the project will reduce Chile's CO₂ emissions by a total of more than 2.2 million tonnes over its seven year crediting period.

The solar PV modules at Luz del Norte Solar Park are mounted on single-axis, horizontal trackers that improve overall performance to yield a high capacity factor of 33%.



382,108
MWh

of renewable energy generated on average each year



327,528
tCO₂e

mitigated on average each year by displacing fossil fuel-generated power with clean, solar power

For more information on the UN Sustainable Development Goals, please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

Official name: CPA Luz del Norte | **Markit link:** http://cdm.unfccc.int/ProgrammeOfActivities/cpa_db/4TZRKDEIVXQ32SG65LMPOCH0YN879J/view | **CDM ID:** CPA 9251-0002

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