

# Chile smart grid project

Why is Chile building a new power line?

High-voltage transmission towers in the Atacama Desert in northern Chile. A new 1,342-kilometre power line is being planned to help connect solar and wind energy projects to the country's grid. (Image: Jon G. Fuller /Alamy) Chile is set to build its longest power transmission line, as it looks to support its transition to clean energy.

Will Kimal-Lo Aguirre be Chile's first high-voltage direct current project?

He points out that Kimal-Lo Aguirre will be the first high-voltage direct current (HVDC) project built in the country. This type of technology, he says, is widely used in other countries that share Chile's characteristics of "a large geographical extension and with focal points for renewable energy generation sources".

What is Chile's energy policy?

According to Chile's National Energy Policy of 2021, energy generation is responsible for 77% of the country's greenhouse gas emissions.

What power system does Chile have?

The supply of electrical power to the Chilean territory is made through three interconnected power systems. The National Electric System (SEN) is the largest of the three interconnected systems.

What is the Kimal-Lo Aguirre project?

Stretching over 1,342 kilometres between the northern province of Antofagasta and the capital city Santiago, the Kimal-Lo Aguirre project will have capacity to carry 3,000 megawatts of power, and should help to fill a gap in infrastructure that currently sees large quantities of renewable energy never make it onto the grid.

Where is solar power located in Chile?

The main future power resource in Chile's SEN is solar power located in the north of the country. Most of the new solar power is photovoltaic. There is hydro power in the south.

"En pa&#237;ses s&#237;smicos como Chile, o en otros donde existe una alta presencia de huracanes, a veces la ca&#237;da de un 5% de la red produce que toda la infraestructura se caiga, ...

Chile is actively working towards achieving carbon neutrality by 2050, defined under the Ley Marco de Cambio Clim&#225;tico or Framework Law on Climate Change of 2022. Under this, the country has taken various regulatory ...

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Chile's energy ministry has announced plans to grow the use of system flexibility to manage the increasing penetration of renewable energies and distributed resources such as electric vehicles. The government projects that ...

High potential for PV generation in Chile future Smart Grids? - Santiago has about twice of irradiation than south Germany - Net billing for DG below 100kW (you pay demand - ...

The annual expansion of the Chilean transmission grid is based on a long-term energy planning process, known as PELP, and was introduced in 2016 with a law modification which among other things created an ...

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This project represents Enel's initial move toward implementing a smart grid, with the aim of equipping 30 percent of secondary substations with smart meters by the end of 2022. Once ...

Para abordarlos, Huawei organiz&#243;, en conjunto con la Universidad T&#233;cnica Federico Santa Mar&#237;a y Chilquinta, el evento "Chile ICT 2018: Smart Grid", en donde expertos del sector p&#250;blico y privado abordaron las redes el&#233;ctricas ...

Chile - first virtual power plant in development Iberdrola launches Global Smart Grids Innovation Hub in Spain. The development of the power line forms efforts by Chile ...

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