

Renewable energy

Green bonds are financial instruments designed to raise funds for projects that deliver positive environmental impacts.

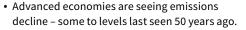
KEY FACTS AND TRENDS IN RENEWABLE ENERGY

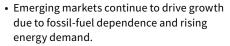
Energy Sector

34% Global GHG emissions
Including electricity and heat production¹

Emissions Trend









 Coal remains the dominant fuel – responsible for approximately 45% of energy-related CO₂, with oil at 33% and natural gas at 22%².

THE ROAD TO NET ZERO BY 2050

To reach Net Zero by 2050, approximately US\$4.5 trillion is required annually by 2030³, mostly in renewable power, grids, storage, and efficiency. In 2024, global investments in clean energy totaled approximately US\$ 1.7 trillion⁴, suggesting a shortfall of US\$2-2.8 trillion annually.

REQUIRED

2030

Approx. US\$4.5 trillion



STATUS

2024

Approx. US\$1.7 trillion



Global Investment Shortfall

WHERE DO GREEN BONDS FIT IN?

Smart Energy Solutions

40%

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Allocation in our green bond universe

Eligible Projects Financed



Renewable energy (solar, wind power generation, hydropower with sustainability safeguards)



Grid infrastructure upgrades and interconnections



Battery and storage projects

Colbún S.A. - A Green Revolution in Chile

Colbún S.A. is a major Chilean electric utility company that produces, transmits, and distributes electricity primarily across the central and southern regions of Chile. The company is committed to achieving carbon neutrality by 2050 and plans to phase out from coal by 2040, with the closure of its last coal power plant.

Its Green Financing Framework, published in 2021, supports projects that enhance energy efficiency and promote renewable energy. The company has also implemented adequate measures to manage and mitigate potential environmental and social risks associated with the projects financed under this framework.

By issuing its first green bond, Colbún is financing two major projects focused on wind and solar energy. The Horizonte Wind Farm project harnesses strong winds to generate large-scale energy, while the Diego de Almagro solar project produces solar energy combined with battery storage for enhanced grid flexibility. Together, these initiatives aim to reduce carbon emissions by over 1 million tonnes annually, create hundreds of jobs, and engage local communities through training and supplier inclusion, all while supporting Chile's ambitious climate goals.





• Camp (1,200 people)

• Concrete plants, crushers,

Diego de Almagro

photovoltaic panels

Copiapó

• 2 site facilities

dumps, loans

The project with an installed capacity of

located 170 kilometers south of Antofagasta Region, 130 kilometers northwest of Taltal and 80 kilometers east of the town of Paposo. It is located in a wind reserve area defined by the Ministry of National Assets.

Area with high wind potential given the intensity, frequency and regularity of local winds. The property was awarded to Colbún for power generation purposes by the Ministry of National Assets, as a result of a public bidding process.

OPERATION PHASE



- Permanent works
- · 140 wind turbines
- · Medium voltage network (48 circuits - 24 in each S/E)
- 02 Elevating substations (2x220MVA 220/33kV)
- 02 Transmission lines (2x220kV - 9.9km and 19km)
- 02 Panels connection S/S Parinas
- 01 Operations building

· 100 km of internal roads





Chañaral C



Photovoltaic project with an installed capacity of



located in the Commune of Diego de Almagro, Chañaral Province, Atacama Region, approximately 25 km south of the city of Diego de Almagro and 92.5 km northeast of the city of Copiapó.

The Project considers around





The energy generated is conducted through 46 Inverters to a boosting substation, where the voltage is raised from 33kV to 220kV. Then, to inject energy into the National Electric System (SEN), the project has a 2.6km transmission line that connects the project with the Illapa substation, which, in turn, transmits electricity to the SEN.



Green bonds are one of the most appropriate debt instrument to accompany issuers committed to transition to a low carbon economy. It supports the decarbonization of the energy sector by channeling capital towards projects that reduce GHG emissions and provide investors with a higher level of transparency and measurability. Contact us to explore more.

⁵Source: Colbun's Green Bond Impact Report June 2023

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