



## THE COORDINADOR ELÉCTRICO NACIONAL AND X, THE MOONSHOT FACTORY, PARTNER TO SUPPORT CHILE'S DECARBONIZATION GOALS

*The Coordinador Eléctrico Nacional and [X's moonshot for the electric grid team](#) will collaborate on grid virtualization and planning tools to support Chile's transition to a more resilient, economic and sustainable power system*

(EMBARGO: 2pm CLT /11am PT Thursday September 9 2021). The [Coordinador Eléctrico Nacional \(El Coordinador\)](#), an independent operator of Chile's electricity system and [X, \(formerly Google \[x\]\)](#), are working together to develop a virtualization of Chile's transmission grid. El Coordinador is the first national system operator to use X's moonshot for the [electric grid virtualization technology](#) to model and simulate a national transmission grid. The partnership aims to support Chile to deliver on its [ambitious decarbonization goals](#) to phase out coal by 2040 and achieve a net zero economy by 2050.

This is a multi-year partnership, and the initial focus of the collaboration will be developing grid virtualization tools. Drawing on El Coordinador's deep expertise operating electrical systems with high levels of variable renewable resources, the X team will also be developing scenario planning tools to help El Coordinador understand what Chile's grid of the future could look like without coal and with increased renewables. Chile has ample solar and wind energy resources, but achieving its goals will require new operational knowledge, as well as forward-thinking system planning capabilities.

In reflecting on the importance of this collaboration to achieving Chile's decarbonization targets, President of the Coordinador, Juan Carlos Olmedo remarked, "This partnership will allow us to make a significant leap in innovation and development within the Chilean electricity sector, especially in modeling and simulation for optimal planning and operation of the system."

The highest authority of the independent operator of Chile's electricity grid President Olmedo added, "The focus of this partnership with X will be on the virtualization of the network, as well as the development of applications to optimize the planning and operation of the electricity system."

The challenge of operating a 24/7 emission-free network is becoming increasingly urgent. "The electricity grid of the future will be renewable and decentralized, with new actors and new flexible technologies, such as storage," Olmos continued. "These will introduce new challenges and opportunities for the decarbonization process. System operators need new digital tools to ensure we can plan, develop and operate a resilient system that can withstand this complexity and the challenge of climate change."

As [Audrey Zibelman](#), Vice President of X's electric grid moonshot, remarked, "For Chile to reach its bold and ambitious sustainability goals on schedule, El Coordinador needs to have and be able to use real-time, accurate information about Chile's grid. We are thrilled to be working with El Coordinador as we develop these tools and to be supporting Chile's moves toward an electricity system that is resilient, affordable,

sustainable, and equitable.”

X unveiled its moonshot for the [electric grid earlier this year](#). The team is exploring how a single virtualized view of the grid— which doesn’t exist today—could make the grid easier to visualize, plan, build and operate with all kinds of clean energy. As Zibelman shared at its launch, reimagining the design, management and operation of the electric grid to support a decarbonized future will only be possible with partnerships and collaboration across the industry.

Both X and El Coordinador believe that one of the biggest obstacles to shifting to renewables and a reliable electric system is having a complete real-time picture of what is happening on the electric grid. Likewise, if the world is going to decarbonize the electric grid quickly and successfully, as well as ensure that electricity remains reliable, affordable and universal, we need to see and make sense of this complexity at an entirely new scale.

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