



Competitive Prices and Controlled Risk: What Renewables can Offer Chilean Mines

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Alfredo Solar
General Manager,
SUNEDISON CHILE

Alfredo Solar, General Manager, SunEdison Chile discusses the developer's experience with large-scale projects for mine off-takers in Chile and his views on future opportunities for wind and solar projects for mining clients.

Q What have been some of the operational highlights from the CAP project now that it has been running for several months?

A The 100 MW's Amanecer Solar CAP power plant has been running successfully for more than a year producing 270 GWh of clean energy. The plant has been producing electricity as expected and the only con-

straint worth highlighting are the limitations of the grid in that area. Since the northern SIC grid system is usually congested the plant has suffered several curtailments during the past year.

Q What were some of the key takeaways from this landmark project, which was the first large-scale solar project for a mine?

A The Amanecer Solar CAP project defined an inflection point where the mining industry in Chile realized that utility-scale solar energy was a real option of purchasing energy at very competitive prices.

Q How would you describe the market for additional large-scale and remote hybrid solutions for mines in Chile?

A It is a reality that large scale fossil fuel electrical projects are currently very difficult to implement in Chile. There is strong social opposition to coal power plants and LNG-based combined cycle plants are very expensive in terms of electricity use. Hence large scale renewable energy power plants have a real chance to supply mining energy demand. Solar PV and wind can be combined to supply 24-hour demand of the mining companies offering very competitive prices with controlled risk.



RENEWABLES & MINING SUMMIT AND EXHIBITION

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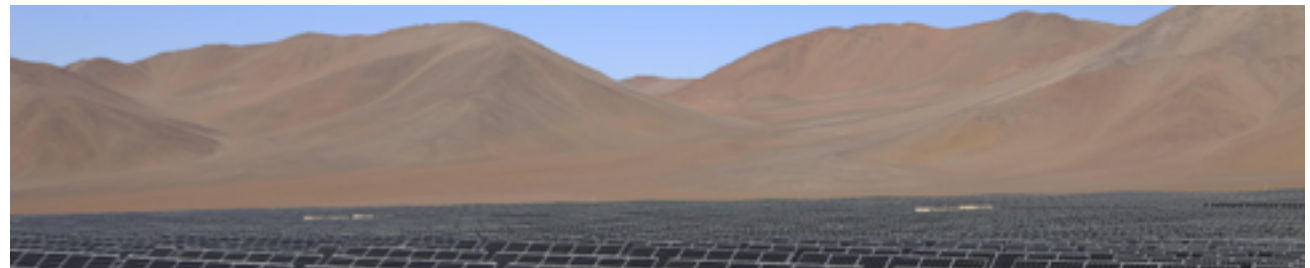
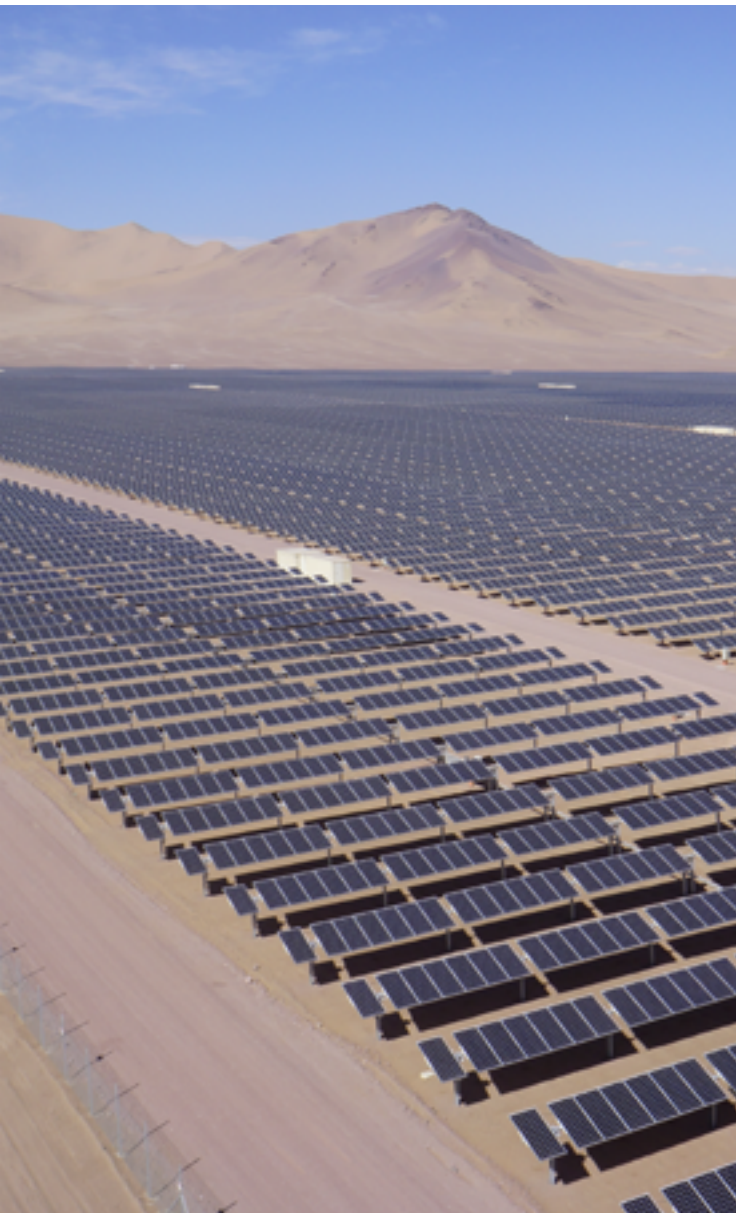
Chilean mines are actively seeking new energy solutions to reduce and secure energy costs for grid-connected and off-grid operations. With energy accounting for 20-40% of operating costs, reducing electricity expenditure is now a major operational and strategic goal for Chile's mining leaders and renewables is set to play a significant role in meeting this aim for remote and grid-tied mines

Following sell-out events in Toronto and Johannesburg, the 4th Renewables and Mining Summit & Exhibition will showcase the latest renewables-mining projects from Chile and address the key challenges for additional projects including innovative finance solutions.

Join representatives from mines and the renewable industry including:



Visit www.energyandmines.com/chile for full details, or call +1 613 627 2787



Q How is SunEdison positioning itself to deliver energy solutions to the global mining sector?

A Definitely SunEdison is a major player in the renewable energy market in Chile with several PPAs signed (representing over 300 MW of installed capacity) with major mining sector clients. SunEdison is on track to position itself as a major renewable IPP, competing with utilities with considerable advantage in the electrical market.

Q Will you now be offering wind and solar solutions to mines with the recent acquisition of First Wind?

A The acquisition of First Wind now allows SunEdison to offer a range of solutions focused on the base load supply for the clients, combining solar and wind energy, and eventually other renewable sources.

Q What are some of the key challenges to overcome when developing, financing and implementing projects for mines?

A One of the issues is to agree on the PPA. The consumer and supplier interests are not always completely aligned. A lot of work is required from both parties to establish and manage risks in the contracts. In terms of developing, financing and implementing the projects, SunEdison has a lot of experience and highly trained professionals simplifying the processes.

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– Alfredo Solar
SUNEDISON CHILE

Q What are you looking forward to at this year’s Renewables and Mining Summit & Exhibition in Santiago on May 6-7?

A The Renewables and Mining Summit is an interesting opportunity to bring together the renewables and mining industries together under one roof. Future collaborations between both sectors can be debated and issues raised to have a real chance to establish a future in this interesting market.