

## Global PV Storage Insights

# Total investment cost of lithium solar battery project in Argentina



## Overview

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Rio Tinto Group has announced a major \$2.5 billion investment to expand its Rincon lithium project in Argentina. This move aligns with President Javier Milei's push to deregulate the country's economy and attract foreign investment. As demand for lithium continues to soar, this expansion positions.

In December 2024, we announced our investment of US\$2.5 billion to expand Rincon, representing our first commercial scale lithium operation. Rincon's capacity of 60,000 tonnes of battery grade lithium carbonate per year is comprised of the 3,000-tonne starter plant and 57,000-tonne expansion plant.

Argentina's lithium industry is poised for unprecedented growth, with official targets projecting a 75% production increase to 130,800 tonnes of lithium carbonate equivalent (LCE) by 2025. This ambitious expansion, driven by new projects in Salta and scaled operations in Catamarca and Jujuy.

Rio Tinto has approved a \$2.5 billion investment to expand the Rincon lithium project in Argentina, marking the company's first large-scale lithium operation and reinforcing its commitment to building a leading battery materials portfolio. The expanded Rincon project will have an annual capacity of.

Rincon Lithium sold for a whopping \$825 million. LSC Lithium Corporation had a transaction value of \$962 million. Arena Minerals was acquired for \$227 million. Neo Lithium changed hands for \$737 million. Millennial Lithium was sold for \$460 million. Lithium Chile at \$101 million. Lake Resources. Who owns a lithium plant in Argentina?

Both projects are expanding their production capacity. The Cauchari-Olaroz plant is the latest to start production in Argentina. It is controlled by Minera Exar, a partnership between Ganfeng Lithium, which holds the majority stake, Canadian company Lithium Americas, and JEMSE.

How much lithium is produced in Argentina?

Total lithium production of 2.8 million tons. Reserves increased six times and price rose five times compared to 2018, the year of acquisition POSCO Holdings has started construction of a lithium commercialization plant in Argentina.

What factors limit lithium industrialization in Argentina?

Domestic and global factors limit lithium industrialization in Argentina. Argentina faces the challenge of defining strategic planning for the lithium sector. Latin American countries, rich in key transition materials, have emerged as significant suppliers for China and key destinations for Chinese investment.

Is Rio Tinto a potential lithium powerhouse?

Potential challenges include cost overruns, delays in ramp-up, and technological hurdles. Despite these concerns, Rio Tinto remains confident in its ability to deliver on its commitments. The Rincon investment underscores Argentina's potential as a global lithium powerhouse.

How many tonnes of lithium carbonate can Rincon produce a year?

Rincon's capacity of 60,000 tonnes of battery grade lithium carbonate per year is comprised of the 3,000-tonne starter plant and 57,000-tonne expansion plant. The project consists of brine extraction using a production wellfield, processing and waste facilities, as well as associated infrastructure.

What is the Rincon Lithium Project?

The Rincon Lithium Project – a large, low-cost lithium-brine asset located in

the heart of the 'lithium triangle' in Argentina – will be a valuable source of rapidly produced, high-quality lithium for the global energy transition.

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### Argentina's Lithium Landscape: Projects, Potential, and the Path ...

The trend in battery technology is indeed seeing a shift towards higher-nickel NMC chemistries requiring lithium hydroxide, while LFP batteries, using lithium carbonate, remain popular for ...

### Rio Tinto to Pursue Argentine Lithium Project Investment Despite ...

In the company's second quarter 2023 sustainability report sent to investors, a sentence warns that "at our Rincón lithium project in Argentina, our \$140 million estimate and ...



### Rio Tinto Bets Big: \$2.5B Lithium Expansion in ...

Rio Tinto Group has announced a major \$2.5 billion investment to expand its Rincon lithium project in Argentina. This move aligns with President Javier Milei's push to deregulate the country's economy and attract foreign investment. As ...

### Hold The Line: Lithium Argentina Balances Efficiency

...

A structural opportunity in a depressed market In an international context characterized by depressed lithium prices and a marked slowdown in the investment of new projects, Lithium Argentina



### Rio Tinto to invest \$2.5 billion to expand Rincon ...

Rio Tinto (ASX, NYSE: RIO) announced Thursday it will invest \$2.5 billion to increase production capacity at its Rincon lithium project in Argentina to 60,000 tonnes per year. Rincon is the

### Cauchari-Olaroz , Our Projects

Located in Jujuy Province, Argentina, this operation boasts rich lithium reserves, established infrastructure, and a skilled local workforce. Commissioned in 2024, it has a nameplate ...



### Operations , Lithium Argentina AG

Higher output, lower capital cost Our scientific approach to exploration and extraction combines volcanology and geological mapping with geochronology and geochemical analyses of marker ...

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## Rio Tinto Bets Big: \$2.5B Lithium Expansion in Argentina's 'White ...

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## BESS Costs Analysis: Understanding the True Costs of Battery

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- ✓ EMS AND BMS

## POSCO Holdings Begins Construction of Saltwater ...

The total investment cost is about 830 million dollars (about KRW 0.95 trillion) including infrastructure investment and operating funds. Operation of the lithium plant and financing will be 100% carried out by ...

## American Salars to Acquire Argentina's Cauchari Lithium Project

What is the Cauchari Lithium Brine Project and Why is it Significant? American Salars Lithium's acquisition of the Cauchari Minas Ines 01 project represents a strategic move ...



## Rio Tinto to invest \$2.5 billion to expand Rincon lithium project in

Global mining group Rio Tinto has approved an investment of \$2.5 billion to expand its first commercial-scale lithium operation, the Rincon project in Argentina. Plans call ...

## Lithium battery investment costs in Argentina

How much lithium is mined in Argentina? much as 9.8 million tons of lithium resources in Argentina. The current Argentine government is mining friendly and favors foreign investment ...



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## Hold The Line: Lithium Argentina Balances Efficiency And ...

A structural opportunity in a depressed market In an international context characterized by depressed lithium prices and a marked slowdown in the investment of new ...

## How to Calculate Solar Power Lithium Battery Costs

Learn how to calculate lithium battery costs for solar power by comparing capacity, cycle life, efficiency, and real-world performance. Make smarter energy investment ...



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## Cost Projections for Utility-Scale Battery Storage: 2021 ...

Executive Summary In this work we describe the development of cost and performance projections for utility-scale lithium-ion battery systems, with a focus on 4-hour duration ...

## Chinese investments in Argentina's lithium sector: Economic ...

Argentina serves as a notable example of these trends. This paper analyzes Chinese investments in Argentina's lithium sector, focusing on the implications for the country's ...



### Lithium With Purpose

Our collaboration with Ganfeng Lithium continues to advance plans for Stage 2 and the regional development plan for the Pastos Grandes basin, which includes our Pastos Grandes and Sal ...

## Cost Projections for Utility-Scale Battery Storage: 2023 Update

Executive Summary In this work we describe the development of cost and performance projections for utility-scale lithium-ion battery systems, with a focus on 4-hour duration ...



## Battery Energy Storage Market: Commercial Scale, Lithium ...

The Investment Tax Credit (ITC) and Modified Accelerated Cost Recovery System (MACRS) are national level incentives that can improve battery energy storage project economics.

## Rio Tinto expands Argentina lithium plans, eyes ...

Rio Tinto is on the shortlist to partner Chilean state miner Codelco on a new lithium project, and has expanded production plans for the battery metal at its plant in Argentina, CEO Jakob



## Rio Tinto to invest \$2.5 billion to expand Rincon lithium project

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## Argentina bullish on lithium amid increase in production

Lithium production in Argentina rose 56 percent in July year-on-year; Officials confident of investment despite drop in prices of metal, eye production of 80,000 tonnes by late ...



## LITHIUM ENERGY LIMITED

Solaroz Lithium Brine Project Located within the Salar de Olaroz Basin in South America's 'Lithium' Triangle in north-west Argentina, the Solaroz Lithium Project (Solaroz) comprises ...

## Argentina - pv magazine International

Argentina installs 307 MW of solar in 2024  
Argentina installed 307 MW of solar in 2024, bringing its total PV capacity to 1.67 GW by year-end, according to energy market operator Cammesa.



## POSCO Holdings Makes Lithium for Secondary ...

In 2018, POSCO Holdings acquired the Hombre Muerto salt lake in Argentina in order to secure lithium preemptively, a key material for secondary battery electrode materials. The company is currently working on ...

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