

European Solar and Energy Storage Solutions

China Aluminum invests in solar power generation



Overview

China's aluminium industry has increased the development pace of green-power aluminium in recent years, by using more green power for electrolytic aluminium production to reduce carbon emission and also by actively pushing forward differentiation of the metal from its non-green-power counterpart.

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By the end of June 2023, the national PV power generation installed capacity reached 470 million kilowatts, PV power generation 266.3 billion kilowatt hours, an increase of 30%. The demand for aluminium in the photovoltaic industry mainly comes from PV module frames, and the market penetration rate of aluminium frames in PV module frames .

A key concern for this large aluminium demand is its large global warming potential. We show that it will be critical to maximize the use of secondary aluminium and rapidly decarbonize the .

The Qingtongxia project is the first distributed photovoltaic project for electrolytic aluminum plant in China. It is invested by Ningxia Qingtongxia Energy and Aluminum Group Co., Ltd., and its EPC service is provided by SPIC Ningxia Energy Aluminum Co. since November 6, 2021.

Meanwhile, Chinese solar demand is also growing rapidly. Aluminium is the single most widely used mineral material in solar photovoltaic (PV) applications, according to the World Bank. The metal accounts for more than 85% of the mineral material demand for solar PV components, from frames to panels. Does China's aluminium industry have a green-power industry?

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What is the demand for aluminium in the photovoltaic industry?

The demand for aluminium in the photovoltaic industry mainly comes from PV module frames, and the market penetration rate of aluminium frames in PV module frames reaches 96% at this stage.

Why is Chinese demand for aluminium so strong?

Chinese demand for aluminium has been resilient throughout the year amid growing demand from the green sector, despite the country's disappointing economic recovery. An open arbitrage window resulting from SHFE prices outperforming the LME has boosted aluminium flows into China.

Why does China need aluminium?

While demand for aluminium in traditional industrial sectors has weakened this year, Beijing's decarbonisation efforts have boosted the need for metals (including aluminium) that are key to renewable energy-related manufacturing from EVs to solar panels.

Why do China's aluminium manufacturers have power plants?

To keep a lid on costs and ensure supplies, most of China's major aluminium makers have their own "captive" power plants, solely for powering their operations. The bulk of such power plants are coal-fired and over half are subcritical coal-burners, the least efficient and most polluting kind of coal plant.

Is the photovoltaic industry complementary to the aluminium production industry?

On 29th June, Inner Mongolia Jinlian Aluminum Co., Ltd. 80 MW composite photovoltaic project was connected to the grid at full capacity. It can be seen that the photovoltaic industry and the aluminium production industry are complementary to each other. By 2040, aluminium demand in the photovoltaic industry will reach almost 4.6 million tonnes.

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China accelerating green power aluminium development

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Will Tracking Be the Next Growth Point for China's PV ...

PVTIME - On May 11, State Power Investment Corporation (SPIC) released a new on official website that its 23 MW distributed photovoltaic project in Qingtongxia is connected to the grid at full capacity. The Qingtongxia ...



PowerChina invests in new Brazilian solar plant

The Power Construction Corporation of China has announced that it will build a new photovoltaic solar power plant in the city of Mauriti in Brazil. The project, which began construction in March 2023, has a total investment ...

aluminium expo ,Aluminium demand from PV industry to reach ...

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China's new energy stocks tell a compelling story Solar and wind power ...

Between 2012 and 2021, the total share of solar and wind energy in China's power generation increased four-fold from 2.6% to 11.8%. 1 Investors are buying into the structural growth story ...

China - World Energy Investment 2024 - Analysis

Over the past five years, China also added 11 GW of nuclear power, by far the largest of any country in the world. The year 2023 saw robust growth for the so-called "new three" (xin-sanyang) industries - solar cells, lithium batteries and ...



Assan Alüminyum invests in clean energy, acquires new solar power ...

This solar plant will play a crucial role in reaching key roadmap milestones, aiding in the reduction of Assan Alüminyum's carbon footprint by offsetting its Scope 2 market ...



Sinopec starts world's largest green hydrogen plant

The project is also China's first 10,000-ton level solar-generated green hydrogen demonstration project. With a total investment of around 3 billion yuan (\$470 million), it is expected to produce 20,000 tons of green hydrogen ...



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