



# Cochin international airport solar power

Is Cochin International Airport fully powered by solar energy?

Units ! Cochin International Airport Ltd (CIAL), world's first airport fully powered by solar energy has crossed another milestone this week, in its trysts with the green energy initiatives, by achieving a cumulative production volume of 25 crore units; offsetting 1,60,000 metric tons of carbon emission.

Why did Cochin International Airport switch to solar?

At Cochin International Airport, the world's first solar powered airport, switching to solar was not just an environmental decision, but also a business decision. Airports have a high electricity demand, estimated to be equivalent to an average city of 100,000 inhabitants.

Why is Cochin International Airport a torchbearer?

The Cochin International Airport has been a torchbearer from its inception on many accounts including the solar power project which prompted many other airports to move the solar way. CIAL (Cochin International Airport Ltd) is the world's first airport fully powered by solar energy.

How much power does Cochin International Airport generate?

At present, Cochin International Airport Limited (CIAL) generates a remarkable 73 million units of clean and green energy on an annual basis. Cumulative installed capacity of CIAL's green projects is 50 MW. CIAL generates 2 lakh units of power daily, while its daily power consumption stands at 1.6 lakh units.

Who sourced the solar panels at Cochin International Airport?

Cochin International Airport was able to secure the services of German company Bosch to install the components for the solar panels, who in turn sourced their photovoltaic modules from a Chinese company and their inverters from a Swiss company.

What is Cochin International Airport?

Cochin International Airport, owned and operated by Cochin International Airport Limited (CIAL), is the first airport in India built under Public Private Partnership (PPP). Remarkably, it is the world's first fully solar-powered airport.

Vikram Solar designed and installed a 100 kW installation at the Cochin International Airport, Cochin, Kerala, India. The projected energy production is at an estimated 405 MWh per year with a capacity of 100 Wp. For this project we have chosen our Eldora Prime Series (230 Wp).

10 MW Solar Projects installed in India's fourth-largest international airport The Cochin International Airport Ltd (CIAL) is the fourth largest international airport in the country in terms of handling international [...]

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Cochin International Airport not only covers its power needs with solar energy but also gives extra power back to the grid. This is a great example of how to be sustainable. Many people want to travel more sustainably, and Cochin's success shows it's possible.

With this, the airport will have 50000 to 60000 units of electricity per day to be consumed for all its operational functions, which technically makes the airport "absolutely power neutral," Cochin International Airport Limited (CIAL) said in a release, adding, it is the first airport in the world to operate completely on solar power.

Cochin International Airport Limited (CIAL), the world's first airport fully powered by solar energy and the fourth busiest airport in the country in terms of international traffic, is all set to begin a new journey of infrastructure development by unveiling 7 mega projects on a ...

Since then, the Cochin airport's solar plant has been generating between 48,000 and 50,000 kilowatts of power per day, which easily covers the needs of the airport, and even a bit extra. All excess energy is sent to the power grid. With this, the airport becomes officially the world's first airport fully powered by solar.

Cochin International Airport (IATA: COK, ICAO: VOICI) ... CIAL has doubled solar production to 28.8 MW of power production within 2 years as part an ambitious plan to expand solar power, with three major projects under construction. The ...

Cochin International Airport the largest airport in Kerala located nearly 30 km north-east part of Kochi at Nedumbassery. ... Solar Power: Notably, the airport is known for its commitment to sustainability. In 2015, it became the first airport in the world to be entirely powered by solar energy. The solar power plant installed on its premises ...

Cochin International Airport Ltd (CIAL), which became the worlds first solar-powered airport in 2015, on Sunday added another feather to its cap, commissioning two floating solar power plants in ...

Located in the southern state of Kerala, Cochin is now the first airport in the world to run completely on solar power. The airport started with a small pilot project by installing a solar energy ...

Cochin International Airport Limited (CIAL) has been selected for the 2018 Champions of the Earth prize, the highest environmental honour instituted by the United Nations (UN). CIAL is honoured for its successful execution of one of the revolutionary ideas of using solar energy which made Cochin Airport a first in the world fully powered by it.

Cochin International Airport is the first fully solar-powered airport in the world which is powering up with 40



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MW photovoltaic power station. It is India's fourth busiest airport and was chosen to receive a UN Champion of Earth Prize in 2018.

The Cochin International Airport Limited (CIAL), the world's first airport fully powered by solar energy, is to become power-positive with the commissioning of its new solar power plant near Payyannur in Kannur district of Kerala.

Kochi: Cochin International Airport Ltd (CIAL) has commissioned one of the biggest floating solar power plants in the state with a capacity of 452-kilowatt hour (KWh) in an effort to sustain the airport power positive by using green energy. With this installation, the total installed capacity of the airport has become 40 MWp helping the airport to produce around 1.60 lakh ...

CIAL has undertaken several projects, to be implemented at a cost of Rs 500 crore, with an aim to produce 76 mw solar power. All of the CIAL's solar power projects worth Rs 125 crore is expected to generate 24 mw power. Apart from retaining its unique status as a fully solar energy-powered airport where a solar component could be added to ...

India's Cochin International Airport Limited (CIAL) has commissioned a floating solar power plant with a capacity of 452KWh. The new installation will enable the airport to sustain on green energy. Go deeper with GlobalData

In fiscal year 2023-2024, the airport handled more than 10.3 million passengers with a total of 67,469 aircraft movements. [5] [1] As of 2024, the airport is served by over 25 airline companies, carrying passengers to 31 international destinations and 22 domestic destinations. The airport operates three passenger terminals and one cargo terminal with a total area of ...

Remarkably, it is the world's first fully solar-powered airport. Located 28 km northeast of downtown Kochi, it ranks as the third busiest for international passengers and seventh largest overall in India. As of 2022, Cochin Airport ...

The Cochin International Airport Ltd (CIAL) which created history by becoming the first airport in the world to run fully on solar energy has commissioned one of the biggest floating solar power plants in the state with a ...

In August 2015, Cochin International switched to running on solar power alone, thanks to the more than 46,000 panels installed over a six-month period at a cost of ₹6.27m. The 12MW plant provides more energy than the site needs, saving some for inclement conditions and night-time operations, while also supporting the state's grid.

The airport's 12MW solar power plant originally came on stream in August 2015. It has a capacity to generate approximately 48,000 units of electricity a day. The plant includes 46,150 solar panels and is located across ...

Cochin International Airport (CIAL) is located in the city of Kochi and in the Indian state of Kerala. CIAL is the first solar-powered airport in the world and also India's first airport to run on solar power. The airport hosts 27 airlines, manages more than 1,000 flights each week, and handles over 10 million passengers every year.

Cochin International Airport has set the benchmark by marking itself as the first ever fully solar powered airport in the world. Being a dynamic airport, CIAL has already established itself as one of the busiest airport hubs of the world, delivering unlimited, apodictic service throughout the ...

The project follows Cochin International Airport's 2013 venture into solar power where a 100 kWp solar PV Plant was installed on the roof of the Arrival Terminal Block. Subsequently, and additional 1 MWp solar PV power plant was fitted to the roof of the Aircraft Maintenance Hangar facility and at ground level.

Located in the southwestern coastal state of Kerala, it hosts 27 airlines and some three dozen shops and restaurants -- and the whole thing runs on solar energy. Cochin International became the world's first solar-powered airport in 2015, when it transformed a patch of land previously reserved for cargo handling into a 12-megawatt solar plant.

The Cochin International Airport Ltd (CIAL) which created history by becoming the first airport in the world to run fully on solar energy has commissioned one of the biggest floating solar power plants in the state with a capacity of 452-kilowatt hour (KWh).

In this paper, performance analysis of 12 MWp grid interactive solar photovoltaic power plant, located at Cochin International Airport, India is carried out using energy and exergy analysis. The thermal performance of the PV plant installed within the airport premises has been investigated based on actual weather data and monitored values of ...

Solar power projects Solar power plants in airport premises. In November 2013, CIAL Infra installed a 1 MWp solar PV power plant, partly on the ground of Airport Museum premises and partly on the rooftop of Aircraft Maintenance Hangar and Aviation Academy building. ... Cochin International Airport Buildings, Kochi Airport P.O., Nedumbassery ...

At Cochin International Airport, the world's first solar powered airport, switching to solar was not just an environmental decision, but also a business decision. ... Earlier this year, Modi set a target for increasing India's solar power capacity by 100 gigawatts by 2022 - four times the current capacity.

offsets 1868 tonnes of CO<sub>2</sub> at Cochin International Airport; Tata Power Solar, India's largest integrated solar company, announced commissioning of 2.67 MW of solar carport at Cochin International Airport. The project comprised of putting together 8472 solar panels on 27 carports spread over 20289.9 square meter of area. The entire solar ...



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The Cochin International Airport Ltd (CIAL), which is the world's first fully solar-powered airport, will on Saturday commission its own hydroelectric project, now taking pioneering strides in the ...

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