

BANGALORE INTERNATIONAL AIRPORT

The solar journey of Kempegowda International Airport

QUICK FACTS

- Location: Bangalore, Karnataka
- Capacity: 500 kWp
- Annual reduction in energy bills: up to Rs 20 lacs without any investment
- Type of system: Mix of RCC and metal roofs
- Type of modules: Polycrystalline
- Type of inverters: String
- Annual generation: 7.5 lacs units annually
- Carbon dioxide abated: 708 ton annually
- Date of commissioning: March 2016

OVERVIEW

Taking a step forward as a part of PMO's 100 GWp solar target by 2022, Kempegowda International Airport, Bengaluru (also known as Bengaluru International Airport Ltd - BIAL) became the first airport in Karnataka to go solar. 'Sustainable progress' is the thought that sets the direction for the airport. As a role model for sustainable progress, the journey of BIAL has been marked by measurable achievements and inspiring stories. One such story includes adopting solar power. It marks a completely new journey for BIAL as it has gone green, without any capital expenditure, and saving electricity costs at the same time.

BIAL was actively looking to partner with a solar developer to meet its objective of building a sustainable airport. Around the same time, Solar Energy Corporation of India (SECI) empanelled CleanMax Solar as a Solar developer under the BOO (Build-Own-Operate) model, to help deploy solar power plants for government installations without any investment. The project has been developed as a part of CleanMax commitment and arrangement with SECI.

The airport being a sensitive area (security wise and constant mass movement), required stringent regulations to be followed while working. It posed challenges for CleanMax Engineers in terms of limited access to buildings, the upper cap on the number of people working on site, restricted movement of material within the premises etc. CleanMax overcame these challenges by deploying highly efficient work processes, which helped our engineers and project staff to complete the construction within two months of signing the Power Purchase Agreement (PPA).



SOLUTION

• Going green with immediate reduction in electricity bills

The installation happened at six different buildings, a combination of RCC and metal roofs. CleanMax helped the airport convert their 6000 sq. m. idle rooftop to a money-saving piece of land by providing complete turnkey solutions. Under our BOO (Build-Own-Operate) model, BIAL saw a reduction in their electricity bills right from the day of commissioning of the solar plant. BIAL is expected to save more than Rs 20 lac rupees annually. That's the cost it is "paying" (read: saving) for going green.

• Aesthetically appealing roof with low maintenance

Bengaluru airport is known for its architectural design. The structure creates a grand, dynamic presence and solar power plants seamlessly blend in the grandeur. Solar power plant adds to the overall aesthetics of the airport and needs very little maintenance.

CHALLENGES

- Installing solar in a sensitive area
- Entire project was to be spread across six buildings
- Minimising the civil work at aesthetically designed rooftop

HIGHLIGHTS

- Karnataka's first airport to go solar
- Remote monitoring system for the plant
- Annual reduction in energy bills up to Rs 20 lacs without any investment

ABOUT BANGALORE AIRPORT



Kempegowda International Airport is an international airport serving the city of Bengaluru. It is owned and operated by Bangalore International Airport Limited (BIAL), a public-private consortium. BIAL has taken various sustainability efforts to maintain long-term well-being of the community.

ABOUT CLEANMAX SOLAR



CleanMax Solar is India's #1 Solar Developer providing of solar energy solutions to corporates. Since 2011, the company has successfully installed more than 200 projects, with a combined capacity of 100MWp of onsite solar plants. It has been recognised by the Ministry of New & Renewable Energy (Govt. of India) with National Excellency awards for the Rooftop solar developer and rooftop solar EPC player in the country.

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Website:
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