

Building materials major, the Danube Group, embraces renewable energy in Dubai



Quick Facts

- ▶ Location – Techno Park, Dubai
- ▶ Capacity – 1,200 kWp
- ▶ % Of Client Energy Output Met – 50%
- ▶ Saving Per Annum (AED) – 300,000
- ▶ Carbon Dioxide abated – 845 tons annually
- ▶ Additional Info: (1) Metal sheet roof (2) Spread across 4 buildings

Overview

CleanMax has commissioned a 1,200 kWp rooftop solar plant at the manufacturing facility of the Danube Group.

Structured as a Build, Own and Operate solar plant, the plant is owned and operated by Clean Max. Under this structure, the customer only pays for the solar electricity as and when it is generated.

The rooftop solar power plant is expected to meet 50% of the manufacturing unit's annual electricity requirement and will help the Danube Group save more AED 300,000 every year on its electricity bills.

Challenges

During construction of the solar plant, there were a number of operational and safety issues faced.

These included:

- The presence of multiple skylights across each of the warehouses, which presented a challenge for worker health and safety
- No safe roof access on some roofs
- Limited water supply around the premises, creating operational hurdles during construction and potential problems for future operation and maintenance

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Website:

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Solution

- Presence of vehicles constantly moving around site, especially over areas that needed to be excavated during construction

The CleanMax team resolved these issues by:

- Using protective wire mesh to cover the skylights, allowing for adequate fall protection in case workers stepped on them
- Setting up safely designed monkey ladders that facilitated easy access to each of the buildings on site
- Undertaking additional plumbing works to allow water accessibility from the roof
- Working a night shift and quickly excavating the required area and placing cables where necessary in only 6 hours, ensuring zero disruption of the client's schedule and vehicle movement

Outcome

The rooftop solar plant at Danube's Dubai facility has realized a saving of AED 300,000 every year. The solar power project is expected to abate 845 tons of CO₂ per annum, which equals abating greenhouse gas emission from more than 163 passenger cars driven for an entire year.

About CleanMax



CleanMax is the sustainability partner of choice for leading corporates. Founded in 2011 and Headquartered in Mumbai, we are the largest provider of solar power to commercial and industrial customers.

The company develops projects on turnkey basis, providing cheaper-than-grid solar power under OPEX and CAPEX model. With a highly-skilled in-house team, CleanMax operates across India, Middle East and South East Asia.

Our track record with leading corporates has made CleanMax a preferred partner across sectors such as Automotive, Pharmaceuticals, Food & Beverages, Information Technology, Education, and many other industries.

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