



KMRL PROJECT

ABOUT THE PROJECT

The pride of travelling in an energy-efficient ride is not an ordinary one especially when HFE's state-of-the-art solar engineering is part of a project. This project is one of the most prestigious projects undertaken by HFE. The rooftop solar plant is on a RESCO model, where HFE will be billing KMRL for their electricity consumption across all their earmarked stations.

PROJECT HIGHLIGHT

HFE won the rooftop project at a cost of Rs 5.51 per kWh of energy drawn, for the next 25 years. On July 5, 2016, KMRL and HFE endorsed a PPA which comprises installation of solar panels on the rooftop of 22 metro stations and buildings in the metro yard. This is the first RESCO model project in Kerala. Under this model, HFE will make the entire investment and take up O&M, while KMRL will buy power from the company.

The 2.67 MW RTS project for Kochi Metro faced some challenges during execution. These include power block unavailability during metro operations, safety constraints at each site, material storage at site, and installation work at top of station buildings in view of shed inclination, heights and lengths. To address these challenges, HFE coordinated with KMRL for in future dates of power block unavailability and scheduling accordingly. Safety nets, lifelines, ladders and walkways were deployed. Just-in-time (JIT) concept was followed reducing the number of days of storage at site. There was strict adherence to HSEPL safety manuals.

Capacity	2.67 MW
Location	Kochi, Kerala
Date of project start	July 4, 2016
Date of commissioning	May 22, 2018
Business model	RESCO (OPEX)
Module type	Polycrystalline
No. of modules	8,580
Inverter	String Inverters
Annual energy generation	35,08,380 units
Rooftop solar spread over area	32,200 sq metres
Environmental benefit	Reduced carbon-dioxide emissions by 25,26,034 kg

CLIENT SPEAK

In the words of Elias George, KMRL's MD Hero Future Energies were selected after a process run by the Kochi Metro Rail Ltd. and the experience of working with the organisation has been very good.

