

CASE STUDY 03



**COMMERCIAL
27KW ON-GRID
SYSTEM**



PROJECT OVERVIEW

Hotels have their own needs for electricity. Guests from across the world love visiting eco-friendly hotels. When a hotelier from Gulbarga approached the SuPhoteam looking for positive publicity, the team suggested a 27kW on-grid system. This helped amount to 80% of the power needs of the hotel.

As safety was the main concern, the team recommended SolarEdge technology for bringing down the DC Voltage to well within safe limits. The system generates and exports excess electricity to DISCOM, keeping the profits going strong even during the off-season.



THE BENEFITS



01

80% of the monthly bills have been taken over by solar.

02

45% of claimed accelerated depreciation and achieved ROI.

03

2.6 years for capital repayment and free electricity for the next 20 years

04

Significant reduction in the OPEX model of the hotel.

05

Green-certified facility with a strong brand presence for being socially responsible.

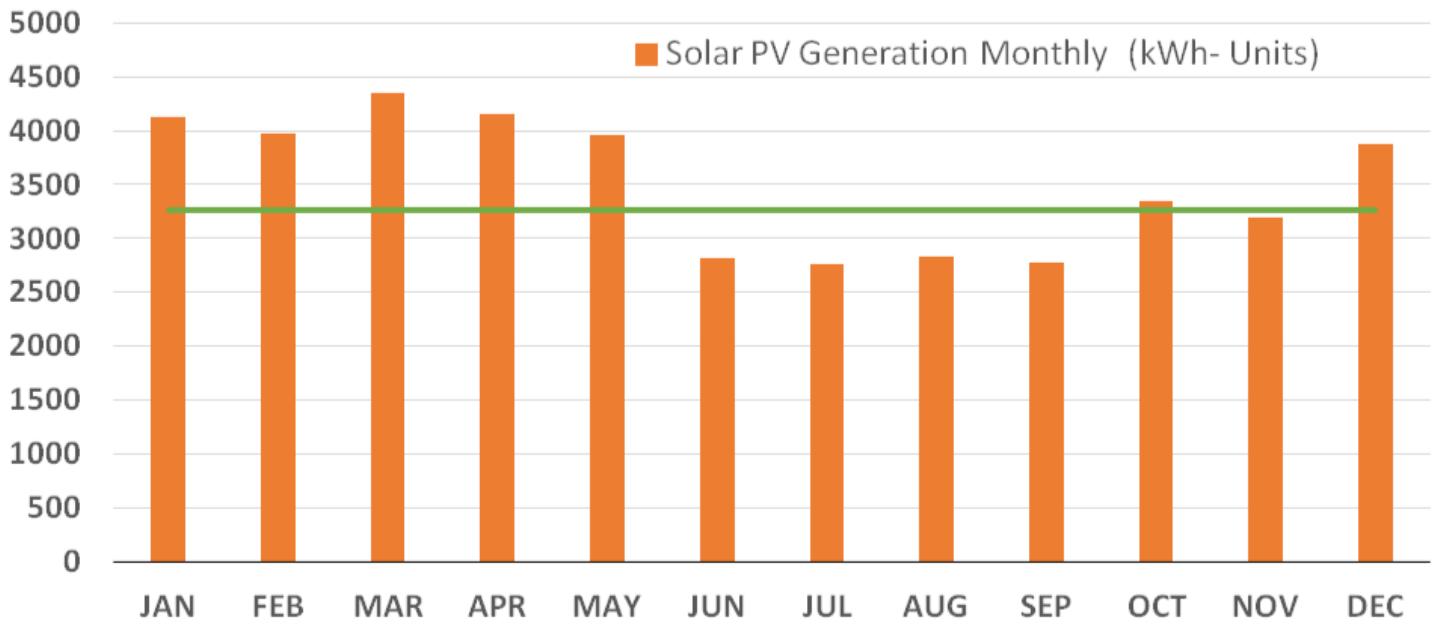


THE IMPACT

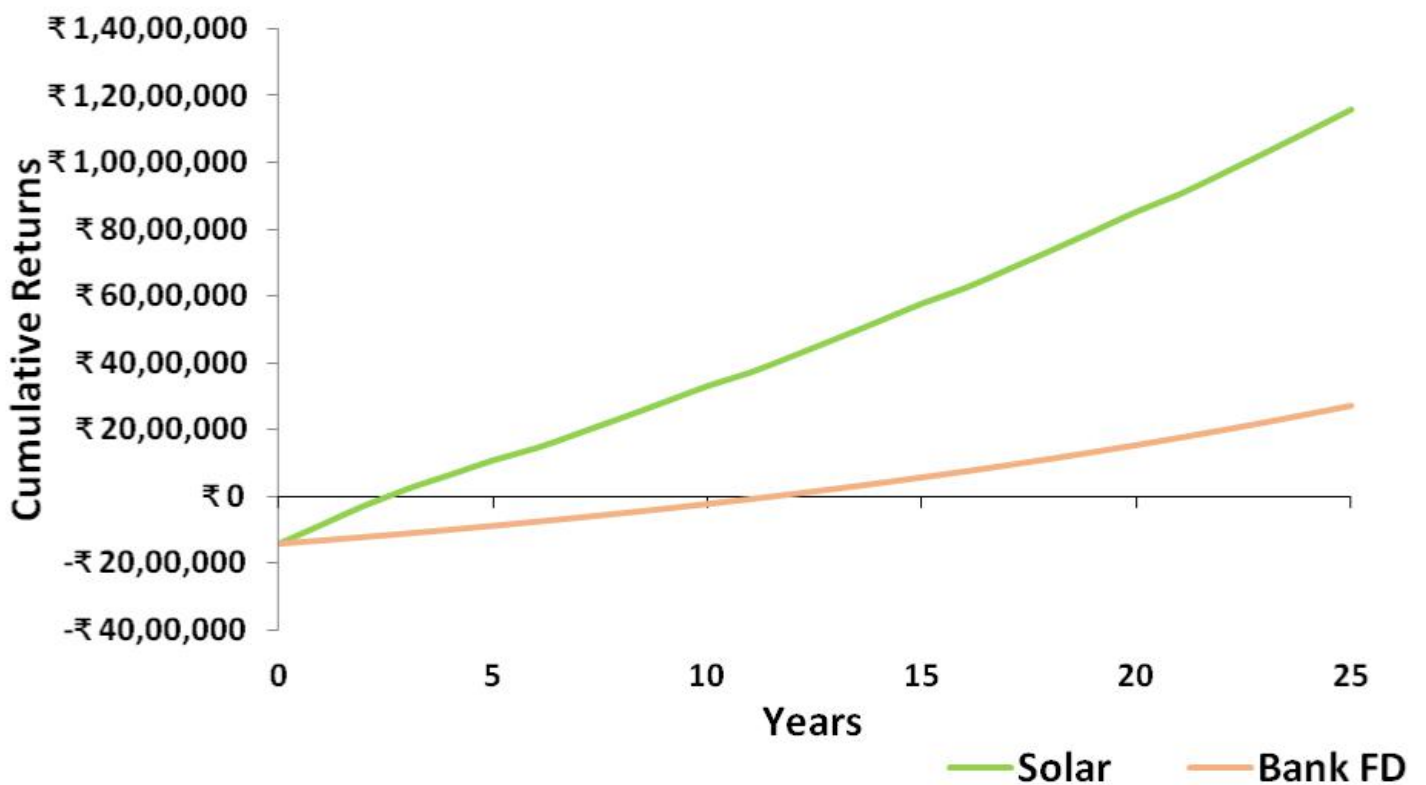
The solar system now generates 38800 units of electricity annually. This will offset 700 tones of carbon over the next 25 years. Being equivalent to 300 fully-grown trees.

Average Units Generated by 27kW Solar RoofTop, Gulbarga

Seasonal Variation



Comparative Cash Flow Diagram for Solar and Bank FD



* With system degradation, parts change cost, accelerated depreciation, inflation 4%, tariff hike 3%, FD interest 7%