

# CASE STUDY 02



**INDUSTRIAL  
120KW ON-GRID  
SYSTEM**



Factories usually have an enormous amount of carbon emissions. A young industrialist from Mysore decided to change that stereotype. In order to reduce the running costs, increase quality, and stay ahead of the competition, the SuPhoteam suggested a 120kW solar rooftop system.

The team recommended Solar Edge, which has the technology to minimize shading loss and allow maximum generation from the plant. Enabling panel-level monitoring, which in turn reduces system downtime that is crucial for industries. Now the factory is eco-friendly. Solar takes care of over 90% of the power.





# THE BENEFITS

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- 01** 90% of the factory's solar needs are taken over by solar.
- 02** Claimed accelerated depreciation and input tax credit (ITC) on GST, effectively reduced the payback period.
- 03** In 3 years, they shall recover the full cost that was invested.
- 04** After recovery, for the next 20+ years, they'll receive free electricity.
- 05** They are trendsetters with the green-certified facility in society.
- 06** A significant reduction was seen with the OPEX model used.



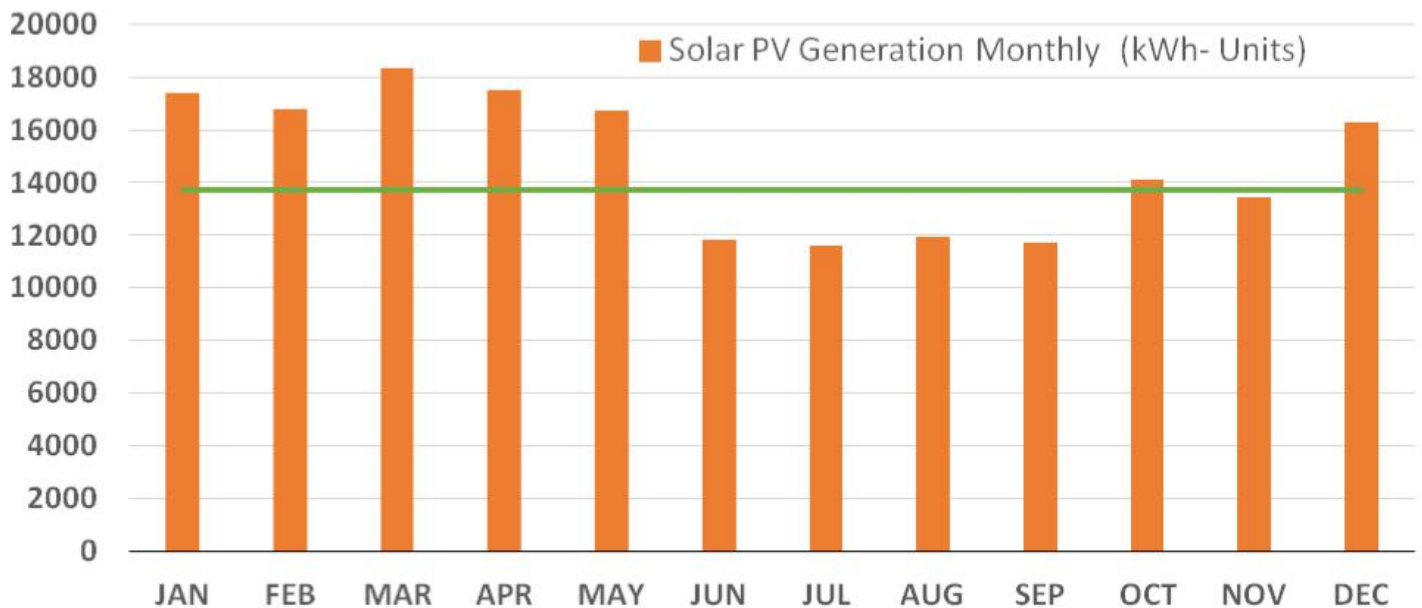
# THE IMPACT

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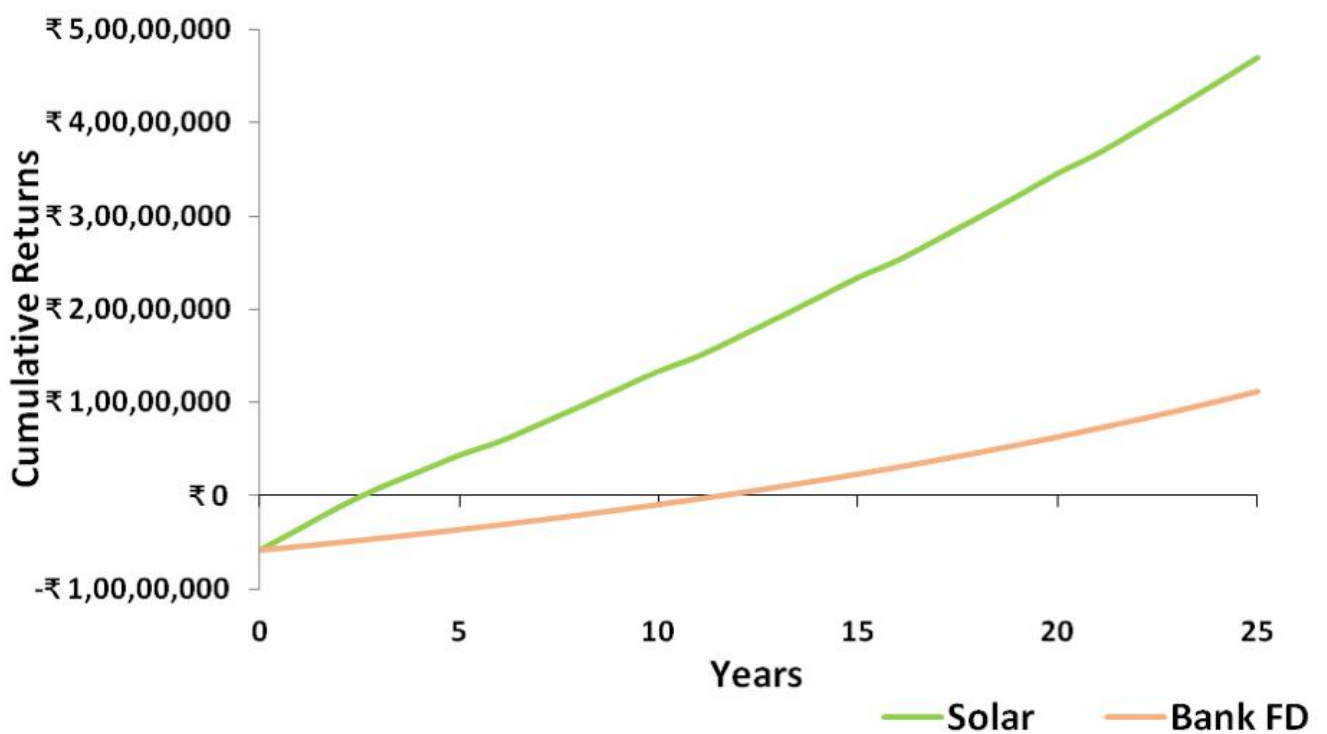
The system generates 1,73,000 units of electricity annually. This will offset 3250 tones of carbon over the next 25 years. Which is equivalent to 1300 fully-grown trees.

## Average Units Generated by 120kW Solar RoofTop, Mysore

### 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%