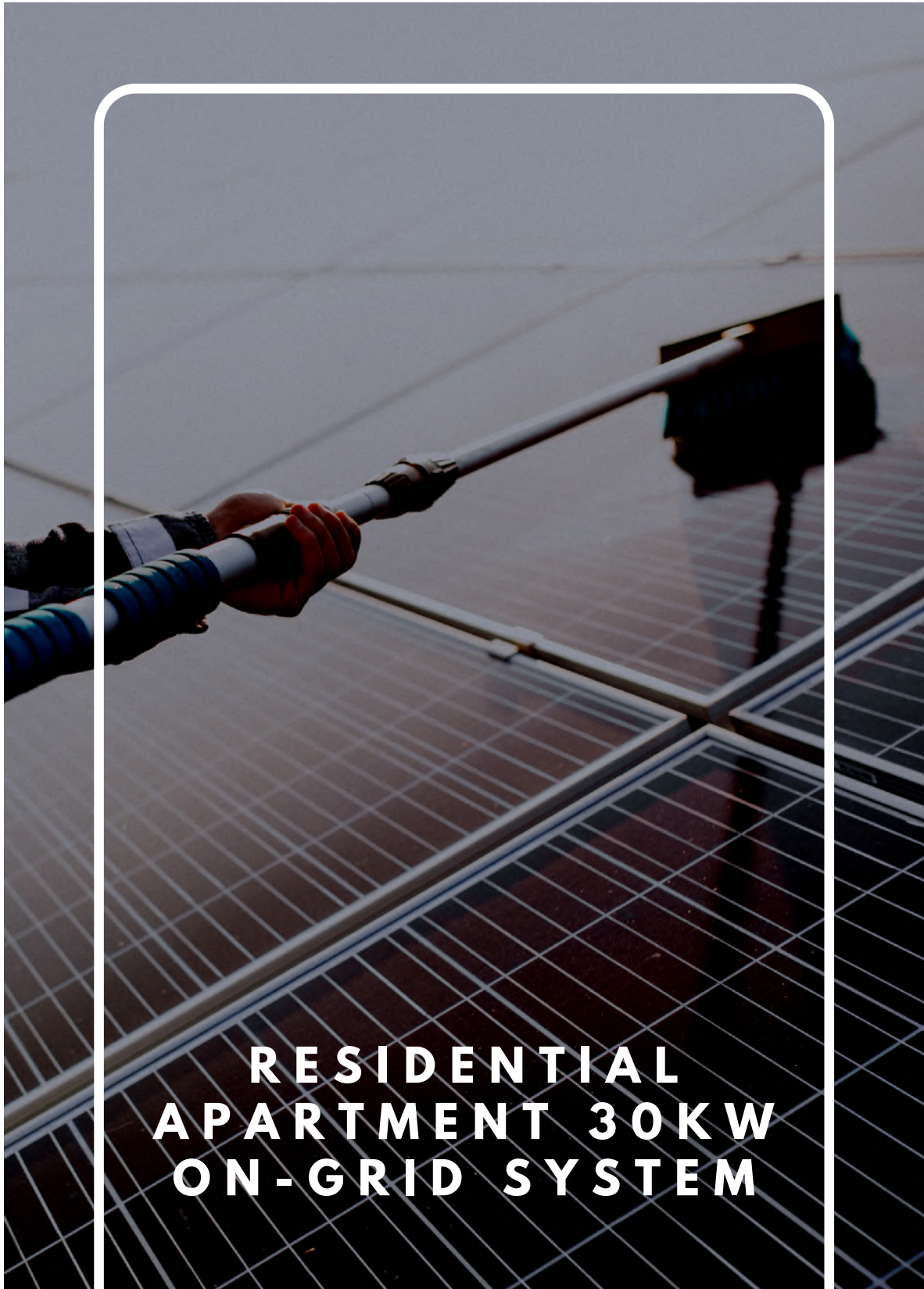
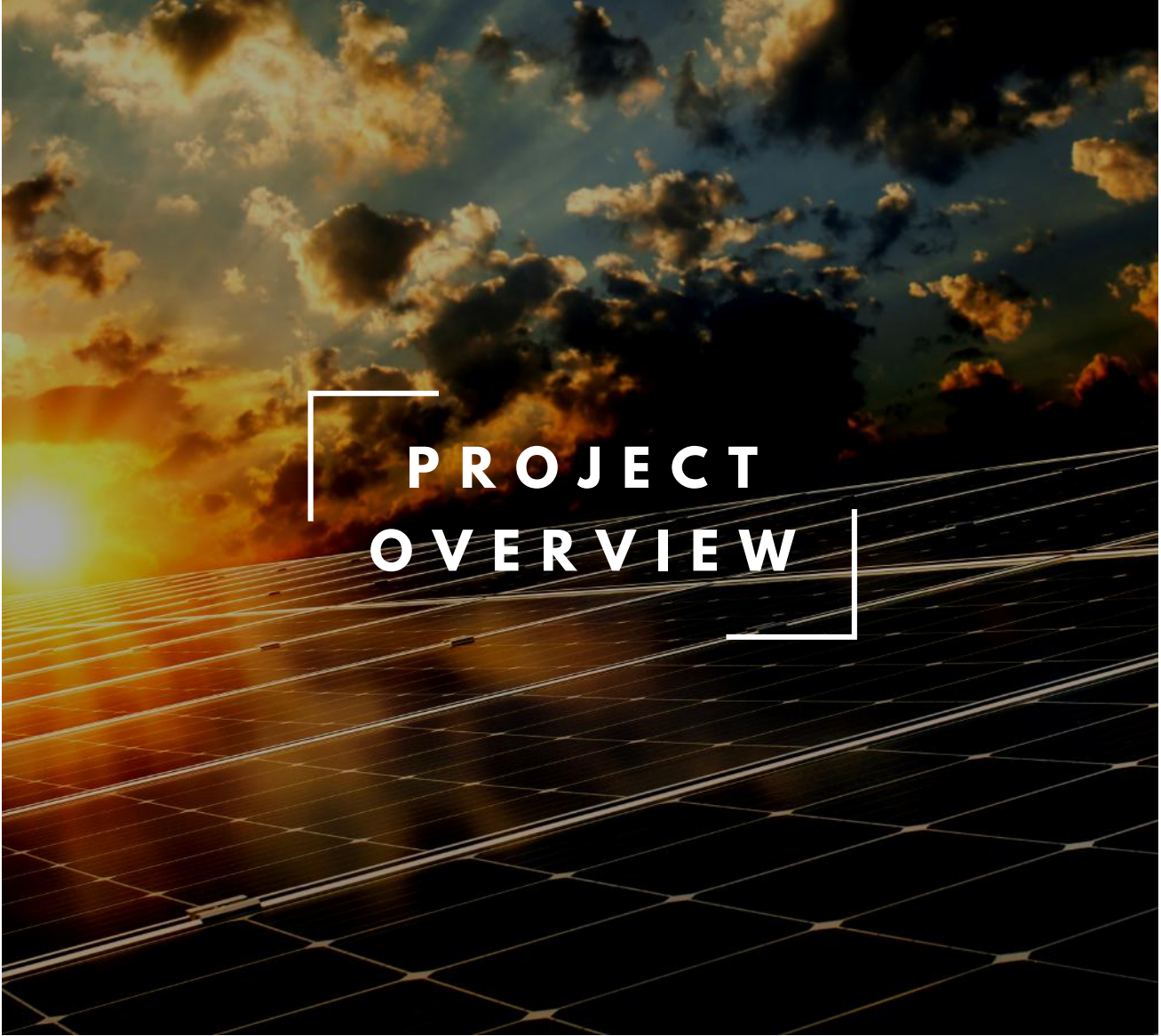


CASE STUDY 04



**RESIDENTIAL
APARTMENT 30KW
ON-GRID SYSTEM**



PROJECT OVERVIEW

A team of sustainable living enthusiasts of a residential apartment complexes have common areas that consume a lot of power. From the elevators to the water pumps, this is an area that must be converted into a more environment-friendly zone. A team of sustainable living enthusiasts approached the SuPhoteam asking for a way to reduce their carbon footprint as well as their electricity bill.

Having a clear understanding of the requirement and budget, the team suggested a 30kW solar PV system in the first phase. The financial advantages and the functioning of the system were clearly explained to the apartment owners. Now they save 1/3 of their total power requirement.

THE BENEFITS

01 30% of the apartment's power needs are sourced from solar.

02 In 4.6 years, they shall recover the full cost that was invested.

03 After recovery, for the next 20+ years, they'll receive free electricity.

04 They are trendsetters, fore thinkers, and visionaries in the society.

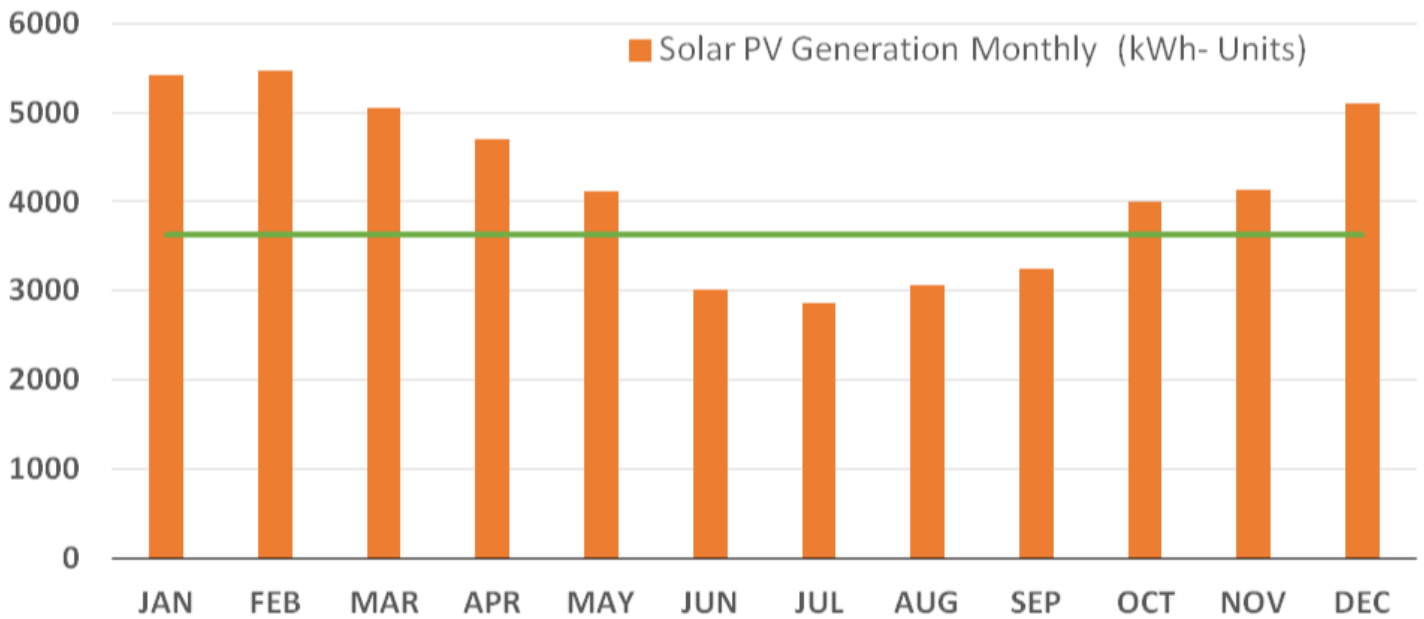


THE IMPACT

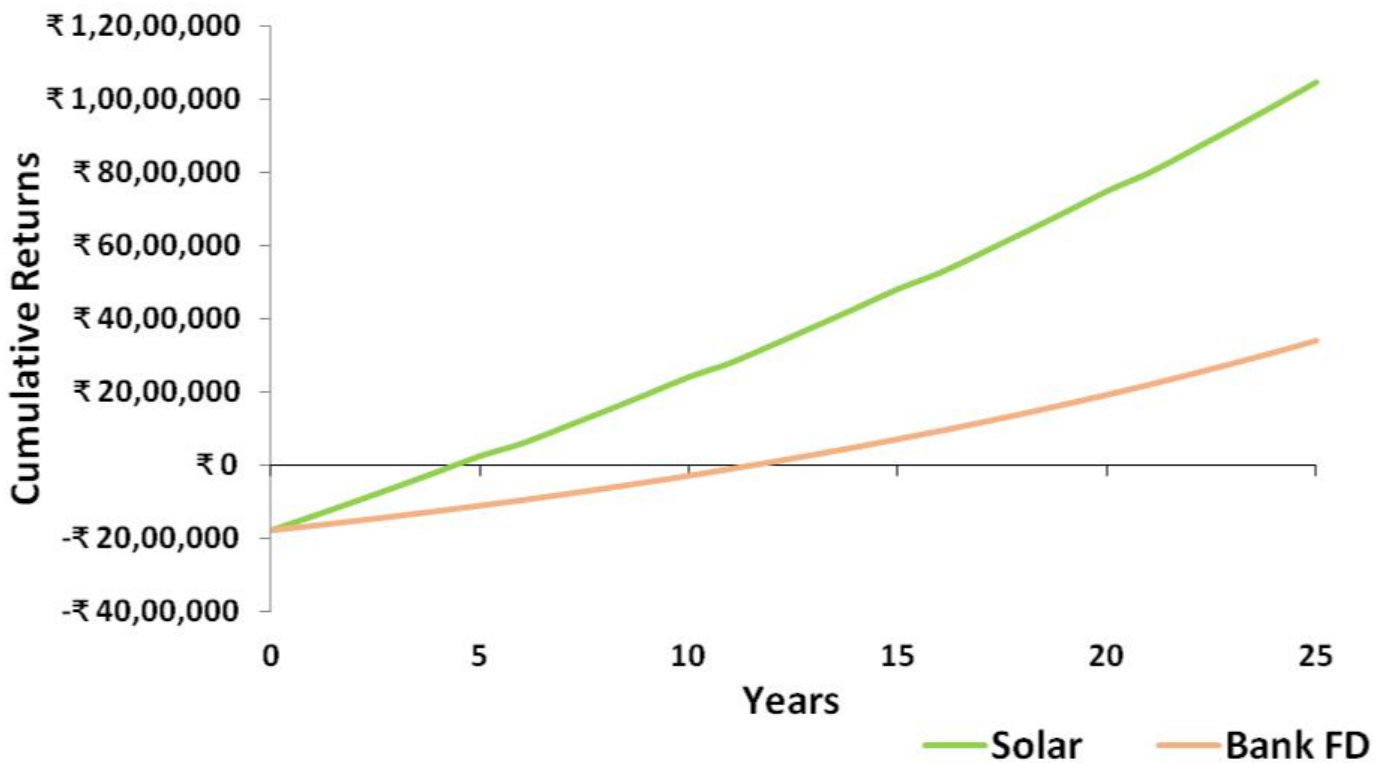
The system generates 44,500 units of electricity annually. This will offset 770 tones of carbon over the next 25 years. Which is equivalent to 330 fully-grown trees in the campus.

Average Units Generated by 30kW Solar RoofTops, Bengaluru

Seasonal Variation



Comparative Cash Flow Diagram for Solar and Bank FD



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