## MURUGAN TEXTILES- THE FIRST POWER LOOM PRODUCER TO USE 100% RENEWABLE ENERGY MAY 2016 POWER TODAY





## SOLUTION

Murugan Textiles has invested in a hybrid model of renewable energy consumption, using both solar and wind energy. While there is no grid power shortage, the grid electricity is used only as a back up to renewable energy when required.

The Tata Power Solar team provided a detailed engineering design and customised solution, which focussed on efficiently optimizing resources. The structures were custom designed, to withstand high winds in the region, without creating any impact on the existing building  Projected Cost Savings of INR 11 Crores in 25 years
 Estimated Energy Generation: 3 million (PA)
 CO<sub>2</sub> displacement: 2567 tonnes (PA)
 10 acres of land space saved
 Accelerated deprecation
 Low break-even period of 6 years
 Hixed energy cost for 25 years.

and rooftop. The rooftop design saved nearly 10 acres of land space, which would have been required for a standard project of this capacity. A dedicated SCADA system has been implemented by Tata Power Solar to monitor the

- System Size: 2000 kWp
  Roof Area: 18850 sq m
  Solar Power Plant Setup: 700kW on 1 rooftop; 650 kW each on 2 rooftops
- Modules: Crystalline; 245 Wp & 250 Wp
   Inverter: 30 KW; 57 nos.

## plant on a real-time basis.

This is the largest rooftop solar plant installed in the power loom industry, till date, with a 2 MW of installed capacity.

## BENEFITS

One of the pioneers in installing green energy to run their complete manufacturing setup, Murugan Textiles now runs nearly 100 per cent of its machinery on renewable energy; 25 per cent of their electricity requirement is met through solar energy and the rest though wind energy.

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