

Case Study: SSVM School Mettupalayam saves 1.4 Cr Yrly

Monthly Expenses of SSVM before Consulting B and B Associates

Electricity Bill Monthly = Rs 5 Lakhs

Deisel Expenses Monthly = Rs 7.5 Lakhs (25000 * 30 Days)

SSVM School in Coimbatore had installed a 100-kW system in 2020 by one of our competitors and after installation the installer had not visited the site for maintenance or for complaints. The system was generating only 50% of the installed capacity. The customer connected load was 112 kw but their daily working load was more than 150 kw.

Anytime the load exceeds the 112 kw TNEB comes up with a fine. To avoid this SSVM was running a partial load with Diesel Generator and they were spending Rs 25000 for Deisel on a daily basis. After a complete survey we also found that for the students hostel there was around 25000 liters of Solar Water Heater and all the solar water heaters were connected with Heating Coil and that alone was total 25 kw connected load which means 25 units will be consumed in one hour which 250 Rs in one hour and we converted all heating coils to Heat Pumps which reduced the consumption from 25 units to 5 units an hour.

Objectives:

Minimize reliance on diesel generators and grid electricity.
Achieve financial savings through renewable energy.
Ensure long-term sustainability and energy efficiency.

Challenges:

High Energy Costs: The establishment incurred Rs 25,000 per day on diesel expenses and Rs 15,000 per day on TNEB electricity, totaling Rs 40,000 per day.

Investment Justification: **Ensuring the investment is financially viable with a reasonable payback period. Total Savings Rs 40000 * 365 days = 1,46,00,000 (1.4 CR) annually.**

Implementation:

Solar Capacity Proposed: Rectified 100 kw system done by competitors and installed a 150-kW new Ongrid system and replaced all heating coils with 20 number 23 kw Heat Pumps and the cost had returned within first six months.

Technology Used: High-efficiency solar panels with an average production of 5 units per kW.

We request to give us an opportunity to do a survey in anyone of your school with the highest electricity bill and diesel Expenses. We can help you to reduce electricity bills and fuel expenses with our 15 years of experience in renewable energy.

Thanks & Regards
C A Biju
Managing Director
BandB Associates
Authorized Service Provider for Bosch India Ltd Since 2012
Kerala / Tamilnadu / Karnataka
Mob: +919946759777
<https://bandbgreenenergy.com>