

100kW Rooftop Solar System At DBMS English School Jamshedpur, Jharkhand



1 PROJECT BACKGROUND

Established in the year 1965, DBMS English School is a prestigious higher secondary school located in the heart of Jamshedpur, Jharkhand. It is an English-medium private co-educational day school run by **Dakshin Bharat Mahila Samaj (DBMS)**.

Observing ever growing electricity tariff/bill and increasing climate concerns, the school management decided to explore rooftop solar systems. However, school management was a little sceptical about the function of the system, but after a detailed presentation by Sologix Energy, School management agreed to install a 100kW on-grid rooftop solar system to reduce the electricity bill and contributing to climate.

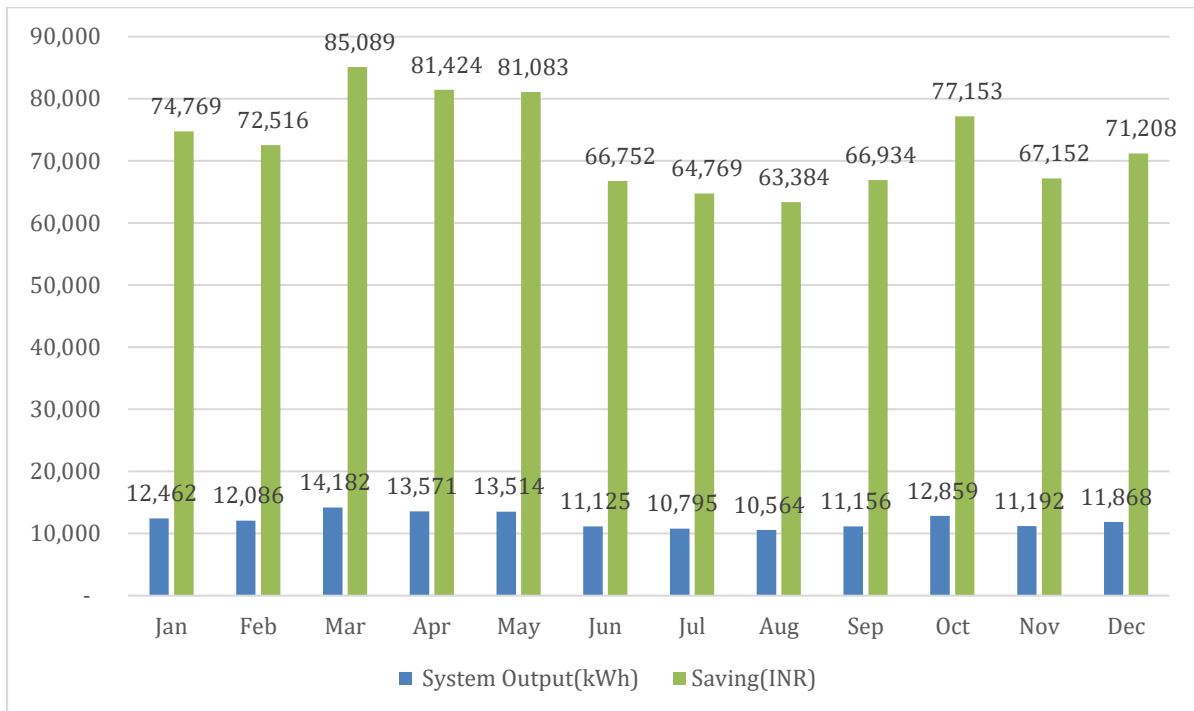
This project consists of 300 number Axitec make solar modules and two Delta make grid-connected inverters. The entire 100 kW system is connected to the TSUILS grid under a net-metering arrangement. The project is to generating approx.1,40,000 units of electricity per year. After installation of the system, we are able to reduce our electricity bill up to 90%. We are only paying demand charges now.

2 ROJECT SUMMARY

Solar System Capacity	100 kW
Roof Area Covered	1000Sqm
Project Cost (Complete EPC)	40,00,000 Rs.
Annual Solar Energy Generated	1,45,000 Units/Year
Saving to School	8,72,000 Rs. /Year
Payback Period	5 Years

3 GENRATION & SVAING

Month	System Output(kWh)	Saving (INR)	Emission Reduction(tCO ₂)
Month	12,462	74,769	11
Jan	12,086	72,516	11
Feb	14,182	85,089	13
Mar	13,571	81,424	12
Apr	13,514	81,083	12
May	11,125	66,752	10
Jun	10,795	64,769	10
Jul	10,564	63,384	10
Aug	11,156	66,934	10
Sep	12,859	77,153	12
Oct	11,192	67,152	10
Nov	11,868	71,208	11
Total	1,45,372	8,72,234	134



4 MANAGEMENT SPEAK

Sologix Energy has done excellent work. They have completed the project on time and provided outstanding Operation & Maintenance service, and we are getting excellent output. The plant is performing well, and we are thrilled with our solar system.

Our plant is generating approximately 10,000 units of green energy per month and we are saving 60,000 Rs. /Month. Apart from saving on electricity bills, we are contributing to the environment and our students becoming aware of renewable energy and climate change.

In my opinion, every school should go for solar installation. This saves money and creates awareness among our students about climate change, global warming, and how solar PV system can help mitigate extreme climatic disasters.



Mr. S. Chandrasekhar
Chairman- DBMS English School