



Maratha Vidya Prasarak Samaj

G. M. D. Arts, B. W. Commerce and Science College, Sinnar, Dist. Nashik

Affiliated to Savitribai Phule Pune University, Pune
Best College Awarded by SPPU2012-13

Id.No.PU/NS/ASC/013/1969
AISHE:C-41292

ISO 9001:2015 Certified College

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INTERNAL QUALITY ASSURANCE CELL

CRITERION VII: INSTITUTIONAL VALUES AND BEST PRACTICES

7.1.3 Solar Energy Report (2020-21)





**Maratha Vidya Prasarak Samaj Nashik
G. M. D. Arts, B. W. Commerce and Science College, Sinnar**

Solar Energy Report 2020-21

1. Energy generated from Roof Grid Tie Solar System:

The Campus has 15.3 kWh on grid solar system that is connected to grid via NET meter. The following table Shows Energy Generated from the solar system sent to Grid and also shows CO₂ saved in Kg.

Sr. No.	Month	Energy Generated	Energy Consumed by college	CO ₂ credit in Kg
		kWh	kWh	
1	June	109	2904	91.778
2	July	400	3561	336.8
3	August	36474	0	30711.108
4	Sept	1337	8986	1125.754
5	October	760	2242	639.92
6	Nov	1414	1560	1190.588
7	Dec	1373	1424	1156.066
8	Jan	1684	2002	1417.928
9	Feb	1790	2533	1507.18
10	March	2009	4342	1691.578
11	April	1994	3834	1678.948
12	May	1904	3834	1603.168
Total Units		51248	37222	Avg. CO₂ Credit = 43150.82kg

Roof Top PV Solar System (15 kWh) is installed on the terrace:

1. The average Electricity Generation is **51248 kWh** per year,
2. The average Electricity Consumption is **37222 kWh** per year,
3. The Average CO₂ credit (emission saved) per year is **43150.82 kg**.

There are no major fluctuations in Electricity Consumption in the infrastructure of the College.



2. Energy generated from Roof Grid Tie Solar System

The Campus has 7.5 kWh off grid solar system that generates daily average 25 kWh units. The yearly average generation is 9000 kWh (units approx.) and it saved the electricity from the grid as well. This System works even if the grid power is cut off and helps the campus in the emergency conditions.

3. Power generated from Roof Grid Tie Solar System

The campus has Roof Top Solar water heater on Girls Hostel & office of 2000 LPD (Litres Per Day) connected to the washrooms and bathrooms. The estimated energy saved per day is 134.3 kWh energy assumed when water is heated at 60°C of 2000 LPD.

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