



**SUPPORTING DOCUMENT
FOR
7.1.2**

**ENVIRONMENTAL CONSCIOUSNESS AND
SUSTAINABILITY/ALTERNATE ENERGY INITIATIVES**



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4. PERFORMANCE OF SOLAR PLANTS

College has installed solar power plant for renewal energy in March 2023. Total Power generation to 09.10.2024 & current power generation as below table is:

Sr No	Power generation up to 09.10.2024	Capacity of Units kWp	Kwh Generated	Solar days	Average Generation per day kWp /Day	Less Generation Assuming 4 kWp /Day	Less %Gen
1	3 Phase Solar plant	20	12620	225	2.80	5400	
2	1 Phase Solar Plant	6	3616	225	2.68	1782	
3	2 Phase Solar Plant	8	3020	225	1.68	4176	
			19256			11358	37%

Conclusion

1 Kwp Rooftop solar system can generate 3-5 kWh of energy per day (considering 5.5 sunshine hours) Say Average 4.00 kWh/Day per kWp . But we see above that generation is 37% Less .

RECOMMENDATIONS

As solar panels are exposed to open air, making them susceptible to airborne particles, fallen leaves, debris, bird dropping, snow, and build-ups of ice.

These accumulations make cleaning solar panels mandatory not only for aesthetics but also because they can reduce energy production—blocking the reception of sun rays.