

















वयं राष्ट्रे जागृयाम् पुरोहिताः

# Govt. Girls' P.G. College, Ujjain (M.P.)

(Established in 1958)

A Centre for Excellence, "A" Graded by NAAC in Two Cycles Affiliated to Vikram University, Ujjain

#### INTERNAL QUALITY ASSURANCE CELL



# Focal Scheme SRISHTI

**Eco-friendly initiatives** 



# in synergy with





#### A brief report of Energy Conservation Initiatives

- ❖ The institute has been taking small and medium term measures for energy conservation for over a decade.
- ❖ Besides Energy Conservation and Awareness Drives, the institute installed Solar lights in the college campus and hostel premises for the first time in 2016.
- ❖ A next major strategic step in this direction was the installation of RESCO roof top 20KW Solar Panel under an MoU. Some other steps include use of LED and Sensor Lights and other energy efficient electrical devices.
- ❖ Other initiatives include sensitizing the staff, students and society about the use of cycle and energy conservation, celebration of World Bicycle Day; Celebration of Energy Conservation Day, World Ozone Layer Day, World Environment Day, Declaring college premises a No Fuel Vehicle Zone on one or two days in a month and declaring a zone of college permanently as No Fuel Vehicle Zone.
- College worked under Focal Scheme SRISHTI
- College developed a synergistic structure of Focal Scheme SRISHTI and SDGs
- ❖ The institute registered its Action under Sustainable Development Goals Global Map
- ❖ College got an Energy Audit of the institute and hostel conducted by SABS ENERGY ENVIRO PVT. LTD. (Empanelled Cwith Urja Vikas Nigam, M.P. A Govt. Undertaking)

# Excerpts from Energy Audit Report of College

## **ENERGY AUDIT REPORT**

YEAR-2021-22



**GOVERNMENT GIRLS P.G. COLLEGE UJJAIN (M.P.)** 









#### SABS ENERGY ENVIRO PVT.LTD

(Empaneled with Madhya Pradesh Urja Vikas Nigam Ltd. - A Govt. Undertaking)

WE BUILD A SOLID FOUNDATION FOR SAVING ENERGY

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# THE ENERGY AUDIT DOCUMENT VERIFICATION TEAM

	External Audit Team						
Sr. No.	Name	Position					
1	Mr. Sanjay Singh	BEE, Certified Energy Auditor, EA-1462					
2	Mr. Rambabu Raghuvanshi	Lead Auditor and Energy Consultant					
3	Mr. Shravan Yadav	Energy Consultant					
4	Mr. Sanjay Tanwar	Energy Consultant					

# CHAPTER NINE SOLAR SYSTEM

## 5.1.1.1 Details of Solar Power Plant:

There is 20 KW solar power system installed in campus for green energy generation.



Figure 6: Government Girls PG College, Ujjain. Solar system



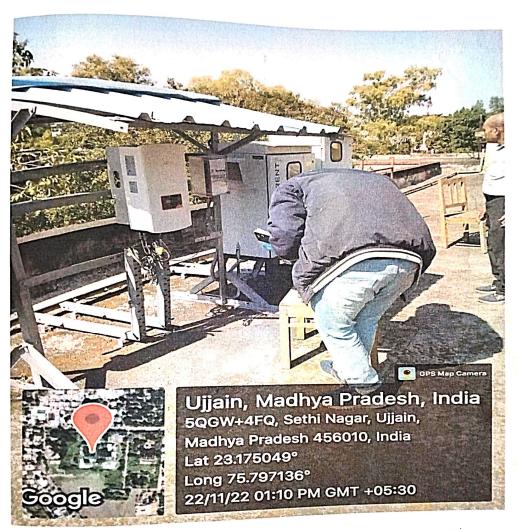
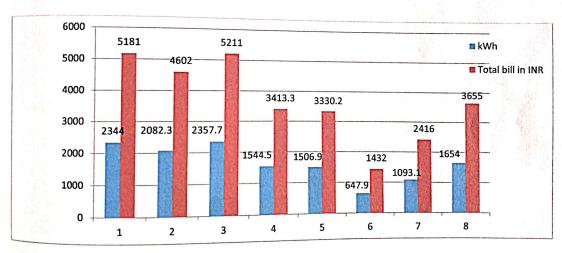


Figure 7: Government Girls PG College, Ujjain. Solar system power measurement

Table 11: Details of Electricity Generated by Solar system

		nthly Electricity Bill FY-2021- 22				
sr. No.	Months	Sanctione d Load (KW)	MDI	кwн	Total bill INR (Rs)	Electricity bill Energy Charges Rs/KWh
1	27.04.22 to 28.05.22	20	Mary State of the			res) revii
2	01.04.22 to 27.04.22	20		2344	5181	2.21
3	28.05.22 to 01.07.22	20		2082.3	4602	2.21
4	01.07.22 to 03.08.22			2357.7	5211	2.21
5	13.10.21 to 03.02.22	20		1544.5	3413.3	2.21
	03.02.22 to 08.03.22	20		1506.9	3330.2	2.21
6		20		647.9	1432	2.21
7	08.03.22 to 01.04.22	20		1093.1	2416	2.21
1 1	Average Values	Rs		1654	3655	2.21
	Total annual Electricity bill Rs.				25586	



#### **Observation and Comments**

- We observed solar system generate 11577 kWH of electricity in the above duration.
- Total revenue generated by solar system is around INR Rs 25586.
- CARBON FOOT Print is calculated around 2.45 tCO2e.
- More Solar Power plant can be installed for more green power generation.

## Conclusion

Govt. Girls PG College, Ujjain is an old college serving for female Higher Education for about replacement of these involves PWD, Ujjain the institute has not actively engaged in the process Lights, Sensor Lights and most importantly Solar Panel and the resulting wheeling to the Grid. and participation of the students for energy conservation, signboards for energy conservation Madhya Pradesh and receiving Usha Mitra Certificates are some of the genuine efforts on the Clean and Green Campus Recognition from Ujjain Municipal Corporation. Their initiative of energy saving is also commendable.

The fulfillment of recommendations of this Audit partially or fully will surely move the institute a forward in the direction of energy conservation significantly