

**7.4.2 b University as a body
promote a public pledge toward
100% renewable energy
(Solar Power, Solar Light)**

Solar Power

Renewable Energy in campus - Roof-Top Solar Power Plants - 550 KW_p



Solar Power

- ❖ Roof-top Solar Power Plant I of 150kWp capacity commissioned in June 2014 at a cost of 1.32Cr. Return on Investment is 1.09 Cr.
- ❖ Roof-top Solar Power Plant II of 100kWp capacity commissioned in October 2014 at a cost of 62Lacs. Return on Investment is 71.60 Lacs.
- ❖ New Roof-top Solar Power Plant III of 300kWp capacity commissioned in October 2018 at a cost of 1.20Cr. Return on Investment is 61.20 Lacs.
- ❖ Total power generated through the Solar PV plants is 26,09,657 units till 30th June 2020, our average monthly energy saving is 38 %.
- ❖ Installation of additional 100 Kwp Solar PV project on the RCC Roofs of School of Architecture Building and Innovation & Incubation Centre at a cost of Rs. 40 lakhs. (Work in progress)

Solar Power

Google Satellite Map View



Clean Energy (Statistics)

Response : **25% - 50%**

Sl. No.	Month & Year	Energy Consumed from Utility Grid(EB) Units(kWh)	Energy Generated By Solar Plant Units(kWh)	Energy Generated By DG Unit Units(kWh)	% of Energy Saved by 550 KW _p Solar Plant
1	July 2019	234173	127431	1246	35.02
2	Aug 2019	258204	123715	1132	32.29
3	Sep 2019	331392	124624	948	27.27
4	Oct 2019	284772	120521	1048	29.66
5	Nov 2019	315108	128542	1279	28.89
6	Dec 2019	175296	110232	1204	38.44
7	Jan 2020	188682	128354	1286	40.32
8	Feb 2020	251885	130241	1802	33.92
				Average Energy Saved by Solar plant	33.87 %

Solar Water Heaters



Men's Hostel



Ladies Hostel



New Staff Quarters

MEN'S HOSTEL		
Block	No. of tanks	Capacity in litres
A Block	20	5000
B Block	6	3000
C Block	6	3000
D Block	8	4000
Main block	20	5000
PG block	12	3000
LADIES HOSTEL		
Main block	10	5000
Annexe Block		
New Block Phase 1	11	2750
STAFF QUARTERS		
New Staff Quarters	23	5750
Total Capacity	116	36,500 Litres

Installed total capacity of 36,500 litres.

This is equivalent to 365 Nos electric geysers of 2kW capacities. The power saving is estimated to be around 24 Lacs per annum.

Solar Street Lights in campus



Installed towards staff quarters to Men's hostel road and Architecture block area. This project was done by our III yr. EEE students along with our Estate electrical dept. team.