



Alternate sources for Energy and Energy Conservation measures

Several measures have been taken for use of renewable energy and to reduce the carbon foot print of the campus. These are some initiatives in this direction:-

- Central Courtyard opened to sky provided for natural ventilation and light for all academic buildings.
- Fly Ashbased brick has been used in construction.
- Energy efficient chiller having lower low power consumption has been used in Central Air - Conditioning plant.
- CLF luminaries is being replaced with LED luminaries in a phased manner with electronic power chocks.
- Windows in building have been fitted with green reflect SOL glasses.
- External surface has been tiled with clay tiles.
- Under deck insulation has been provided on the roof to reduce the heating load in the buildings.
- Grid connected Solar power plant of capacity 140KW has been installed and operational on roof top of Academic, Library and Administrative buildings. The system has been designed in a manner such that in case of surplus power available from roof top Solar plant than the local consumption, then the excess power is fed into the grid of local power company. About 3,00,000 units of power is being generated through renewable energy source in Dwarka Campus.
- Eight units of Solar water heaters with capacity to provide 40,000 litres of warm water have been installed and operational in 4 Hostels in campus.
- Use of Sensor based fittings for Library, Administrative Block, Faculty rooms, Staff Toilets and other facilities are being undertaken to conserve energy.
- Approximately 250 Split/Window room air conditioners have been replaced with 5 star energy rated. All A.C.'s are conforming to ecological permissible refrigerant specifications.


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Information regarding Environment Consciousness and Sustainability

Environment Consciousness and Sustainability (10)


Annual lighting power requirement meet through LED bulbs

S. No.	Financial year	Total Lighting requirement	Percentage lighting through LED bulbs	Percentage lighting through Other sources
1.	2017-18	582108	0.38% (2188W)	99.62% (579920W)
2.	2018-19	531345	2.58% (13729W)	97.42% (517616W)
3.	2019-20	525369	3.27% (17205W)	96.73% (508164W)
4.	2020-21	361779	7.46% (26978W)	92.54%(334801W)



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S.No.	FYR- 2018-19(Solar Unit)	BSES	FYR- 2019-20(Solar Unit)	BSES	FYR- 2020-21(Solar Unit)	BSES
1	17011.00	359160.00	19473.00	379493.00	20012.55	33156.00
2	19167.00	507828.00	19697.40	444288.00	22759.90	188796.00
3	17111.00	533052.00	19081.40	546648.00	16438.00	265428.00
4	15866.00	510324.00	14487.80	546648.00	18635.50	345804.00
5	15408.00	469812.00	17604.20	542856.00	12612.00	322392.00
6	18076.70	543826.00	15323.20	434917.00	18861.00	422647.00
7	18240.30	368220.00	13823.40	304020.00	14270.00	297060.00
8	13919.10	180780.00	11272.60	166620.00	13369.00	151320.00
9	12724.20	433920.00	9103.30	488040.00	11361.00	404340.00
10	13281.70	508980.00	12666.80	478800.00	12385.00	400800.00
11	14127.70	274500.00	20777.00	288960.00	20331.00	225300.00
12	21161.20	192180.00	10966.00	152507.00	17500.00	192840.00
	196093.90	4882582.00	184276.10	4773797.00	198534.95	3249883.00


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