

E.G.S.PILLAYENGINEERINGCOLLEGE(AUTONOMOUS)

NAGAPATTINAM-611002.TAMILNADU,INDIA

ApprovedbyAICTE,New Delhi,Affiliated

toAnnaUniversity,Chennai(AccreditedbyNAAC with'A'GradeandNBA)

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CRITERION7–INSTITUTIONAL VALUES AND BEST PRACTICES

METRIC	PARTICULAR
7.1.2	The Institution has facilities for alternates our ces of energy and energy cons ervation measures
	Solarenergy Biogasplant WheelingtotheGrid Sensor-basedenergyconservation Useof LEDbulbs/powerefficientequipment

HEllnput

A. Any 4 or All of the above

DVV SuggestedInput C. 2oftheabove

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Options	A. Any 4 or All of the above

Writeup:

The institute have 200KW solar PV plant, biogas plant, permission from Government of Tamilnadu for wheeling to the grid, Sensor based energy conservation for water level indication and 1486 LED bulbs fixed in the campus.

Listofdocuments

SI.No.	Particular	Links
1.	Solarenergy E.G.S Pillay Engineering College has a practice of solar energy generation to conserve the energy. Solar power generation in the campus is 200 KW. Total installed power in institution is about 200 KW in that 150 KW power generated grid connected roof top solar power generation under Lease cum Power Purchase Agreement (PPA) scheme. Solar power contribution is 30 percent in the total connected load in campus.	<u>Click Here</u>
2.	Biogas Plant: E.G.S Pillay Engineering College has bio gas plant (dome biogas plant), which is situated nearby Boy's hostel. It produces gas. It saved the expenditure spent on LPG and also produce green energy to reduce the waste. Fixed dome bio gas plant has the capacity of 50m ³ . The main aim of construction of the bio gas plant is to collect the digestible food waste as well as human excreta from the two hostels. And the waste collected from the hostel is dumped into the plant and the bio gas is produced. The main feed of plant is from cow dung and food waste. The specialty of this bio gas plant is that, it is covered with tarpaulin (poly urethane coated nylon material). The depth of the plant is 18 feet with diameter of 23 feet. and the capacity is about 15 m ³ . The biogas produced this plant is used as a fuel for cooking in hostel.	<u>Click Here</u>
3.	Wheeling to the Grid: E.G.S Pillay Engineering College having 150 KW Solar power plant at roof top of academic blocks to reduce the electricity power supply. This leads to reduction in carbon foot print. Grid interconnection of PV power generation system has the advantage of effective utilization of generated power because there are no storage losses involved.	<u>Click Here</u>
4.	Sensor Based Energy Conservation: E.G.S Pillay Engineering College has installed sensor-based energy monitoring and control systems, automatic water level controller for energy conservation. Automatic water level controller has installed in the campus reduced the water wastage and save water. Once the level of water in the tank reduced, automatically controller will switch on the motor to fill it and cut of, when the water level reaches	<u>Click Here</u>

	the desired level. This practice has helped to implement the	
	energy conservation.	
5.	Use of Bulbs/ Power Efficient Equipment:	Click Here
	E.G.S Pillay Engineering College has the total lighting load 150	
	KW in that 60 Percentage lighting load is based on LED	
	LIGHT. They are used as at street light, conference halls,	
	classrooms and corridor of the building, office rooms etc. The	
	entire conventional type street light of the institution has been	
	replaced with LED light.	
	The Institution has taken initiative to replace old model Air	
	Conditioner to New model which has Energy Conservation	
	rating with 5 Star/ 3 Star BEE ratings. This practice helps to	
	conserve energy.	
6.	Policy document:	Click Here
	Policy document on alternate source of energy and energy	CHERTICIC
	conservation available in HR policy book.	
7.	Renewable Energy Club Activity	Click Here
	Renewable energy club organized Energy conservation and	CHERTICIC
	safety measures lectures	