

Towards Sustainability...

THE - Impact Rankings 2022



Ensure access to affordable, reliable, sustainable and modern energy for all

7.2.3 Carbon Reduction and Emission Reduction Process

Steps taken by the institute to reduce its carbon footprints:

- 1. Installed 2103 kWp of solar PV and planned to install 750 kW more.
- 2. Buying 90,00,000 units from wind power and planned to procure more in the near future through open energy market.
- 3. Used 70 % lighting as LED lamps and other fitting are will be replace in a phased manner. All the replacement of old lights are only with LED fittings
- 4. Used Centralised chiller plant for cooling which consumes only 60 % of the conventional ACs
- 5. Developed innovative cooling method which combines the radiant cooling, indirect evaporative and centralised chiller system which reduces the 50 % of energy consumption.
- 6. Developed green landscape inside the campus
- 7. Planted 2,00,000 trees in and around Vellore in last three years
- 8. Banned the student vehicle inside the campus
- 9. Installed solar water heater and heat pump which is the best energy efficient method of heating water
- 10. Biogas plant of 200 kW is in operation which takes food and STP wastes
- 11. Biomass plant of 100 kW which uses the trimmed plants from the garden

The VIT had initiated the following projects to attain Carbon Reduction and Emission it its activities.

The green campus initiatives of VIT can be view at

https://vit.ac.in/detailview/green-vit

Solar Power Plant with Overall capacity of 1.12 MW

Roof top Solar PV



Biomass based power plant of 100 kW capacity and a A 300 m3 capacity biogas plant





Have been been been been been been been be	Engine140 KVADuel fuel engine150041519550Producer gas + dieselMen's hostel C, D & E3 shifts0.98 kg biomass per unit11,08,467 units
Number of hours operation till 31.03.2015	25,827 hours
FRIDAY, 02 AUG	ngitude 79.156241 79°9'22.46"e Titude 12.970261 12°58'12.93"N

Solar PV and online energy monitoring

VIT 1MW P	OWER PLA	ANT						Q Please enter	plant / SN / Email
	OLAR ENERGY		G LAB		offline 541W	F Today Generation 328.50 kWh	Today Income 2628.00 INR	Fotal Generation 33020.40 kWh	Total Incom 264163.20 II
Created : 11.04.2020 Classification : Commercial rooftop PV Capacity : 1000.00 kW Location : Jimmy Carter Rd, VIT University, Vellore, Tamil N				famil N	Power Generation Generation : 328.50 kWh Income W 120,000 100,000 80,000	tincome 2 2628.00 INR		4 🛅 11.24.2020	F
Today	Wednesday 23/25°	Thursday 22/25°	Friday 22/28°	Saturday 22/27°	60,000		S.M.M.	Λ	
29°				-	20,000	06:00 08:00		14:00 16:00	18:00