



Towards Sustainability...

THE - Impact Rankings 2024

7

AFFORDABLE AND
CLEAN ENERGY



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

7.2.5 Energy Waste Identification :

VIT Annually conducts and energy audit which forms the basis for the plan to reduce energy consumption. Yearly energy audit is conducted along with quarterly walk through audit by the internal energy conservation team. The important concern in the campus is line losses, particularly two hostel side power houses. Primary reason is the distance and the second one is most of the time the cables are overloaded. Hence continuous monitoring, performance analysis of energy intensive equipments are done regularly to track for the energy saving features.

1. Currently three of our hostel blocks and administrative blocks have been replaced with centralised air conditioner unit which can save more than 30 percent of energy when compared to the individual room small air conditioner units (1 and 1.5 tons).
2. The AC's in the buildings have been replaced with efficient VRF systems. 635 TR of VRF system is installed in place of equivalent tons of window ACs and the energy saving is 33% of energy saving is achieved.
3. In addition, 440 TR of centralised water cooled AC is installed in place of 480 TR of window and split ACs and the energy saving is 50 % when compared to the conventional ACs.
4. 150 numbers of street lights are replaced from 400 W sodium / metal halide lamps to 90 W LED.

5. 40 kWp off grid solar system is installed at our agricultural field, animal sheds and fish pond. 46 numbers solar street light is installed.
6. 6 numbers of VIT agricultural open wells are connected with solar pump for the irrigation purpose.
7. External Energy audit conducted at Malladi drugs: We analysed energy consumption, HVAC and STP plants and given the energy saving measures.
8. During holidays the lab technicians are advised to switch off the UPS to avoid excess losses. Most of the street light and walk way lights are controlled by sun light detecting sensors.
9. The walk ways and street lights replaced with LED fixtures phased manner.