



TRIDENT ACADEMY OF TECHNOLOGY

Ref: TAT/P/106/2025

Name of the policy	Energy Efficiency Standards for Buildings Policy	Department responsible	All
Department	All	Prepared by	Lohit Kumar Sahoo
Effective date	26-4-2021	Checked by	Dr.A.Baral
Review date	14-03-2025	Approved by	Principal
No. of pages	1		

1. Purpose:

The main objective of this policy is to formulate comprehensive guidelines and regulations on the refurbishment and construction of new buildings, the renovation and replacement of old infrastructure, and energy-saving and carbon-reduction practices to be followed by all users of the university.

2. Responsibility center: Office of the Operation

3. Procedure:

- i. We are committed to all new buildings on campus passing Item SDG-6-2-4 of the Green Building Label certification process.
- ii. Split-type air-conditioners are purchased in accordance with the latest environmental regulations and are inverter air-conditioners with Level 1 standards in terms of energy efficiency (ISEER > 4.5).
- iii. LED energy-saving lamps are installed when constructing new buildings and during the refurbishment of old buildings.
- iv. All the new buildings will be equipped with BLDC ceiling fans. Which consumes 75% less power than normal ceiling fans.
- v. All installed power transformers are amorphous, environmentally friendly, and energy - saving (core loss is reduced by 80% compared to a traditional iron core).
- vi. All the campus buildings should be made up of laterite stone and fly ash materials. The local material like soil and laterite from excavations are reused for the construction. Laterite bricks are natural stones and have cooling properties hence they keep the home cool during summers which is a great benefit for hot regions. Due to its natural properties, laterite bricks have good thermal insulation properties.

ATTESTED

Principal
Principal

Trident Academy of Technology
Bhubaneswar-751024