



## Evidence(s)

# THE-Impact Ranking



**HEI: TRIDENT ACADEMY OF TECHNOLOGY**

**COUNTRY: INDIA**

**WEBSITE: <https://tat.ac.in/activities/>**

**SDG 7: AFFORDABLE AND CLEAN ENERGY**

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### 7.2.5 Energy Wastage Identification (A)

1. Trident College maintains a proactive approach to energy efficiency and sustainability through a well-structured process of annual review and improvement. Here is an overview of this approach:

1. **Year-End Energy-Saving Meetings:** At the end of each year, Trident College organizes comprehensive meetings with the campus-wide energy-saving group. These meetings review the effectiveness of energy-saving policies implemented over the year and strategize for the upcoming year. Led by the director of operations, these meetings include representatives from each building's management unit.
2. **Building-Specific Energy Tracking:** Each building within Trident College has its own energy management unit responsible for monitoring electricity consumption throughout the year. These units employ a mix of incentives and penalties to encourage active participation in electricity conservation across the campus.
3. **Identifying Major Energy Consumers:** Reviews from previous years have pinpointed the major energy consumption sources within Trident College. Air conditioning is currently the largest contributor to energy use, followed by lighting and fans, especially during official operating hours.
4. **External Energy Audit:** In addition to internal reviews, Trident College has enlisted SAB ENERGY SERVICES & AUTOMATIONS to perform an energy audit and thermographic testing. This external audit highlights potential areas of energy waste and inefficiency, offering guidance for further enhancements.

By combining internal reviews, energy-saving meetings, targeted incentives, and external audits, Trident College demonstrates its commitment to effective energy management and sustainability, supporting broader goals of environmental responsibility and conservation.

**Power Factor Correction:** A variety of measures can enhance electric and power management systems, including power factor correction. Benefits of power factor correction include reduced demand charges on power systems, extended load capacity in existing circuits, and decreased power system losses. Trident College maintains a power factor close to 1, resulting in minimal power loss across campus.