



## Evidence(s)

# THE-Impact Ranking



**HEI: TRIDENT ACADEMY OF TECHNOLOGY**

**COUNTRY: INDIA**

**WEBSITE: <https://tat.ac.in/best-practices/>**

### 13. Climate Action

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#### 13.3.2 Climate Action plan, shared with local government groups

## Trident Academy of Technology Collaborates with GIZ, Deloitte, GRIDCO, and Fraunhofer Institute on Advanced Solar Innovation in Odisha

Faculty members at Trident Academy of Technology continue to enhance the institution's sustainability initiatives through specialized training in power sector counseling, conducted by the National Skill Development Corporation (NSDC). This professional development program enriches their understanding of industry standards, evolving trends in the energy sector, and the emerging skill requirements of renewable and power industries. With this enhanced expertise, faculty members provide informed guidance and mentorship to students pursuing careers in sustainable and technical fields. These efforts reflect the academy's holistic approach to integrating sustainability into education, research, and community engagement.

In Odisha, the cities of Cuttack and Bhubaneswar serve as focal points for Trident Academy's collaborative energy projects. The institution is actively partnering with GIZ, Deloitte India, GRIDCO, and the Fraunhofer Institute of Germany to design and implement solar energy solutions tailored to the region's unique needs. Trident's technical team contributed valuable expertise during Deloitte's pre-feasibility studies and participated in stakeholder discussions held on 5th November 2024 at Bhubaneswar.

The academy also participates in regular online knowledge-sharing workshops organized by GIZ in coordination with several European research institutions. These workshops emphasize:

This focuses on three primary goals:

- 1. Optimizing Solar Solutions:** Optimizing solar technologies to address the specific requirements of urban-industrial infrastructures in Cuttack and Bhubaneswar.
- 2. Data Collection and Analysis:** Collecting and analyzing data on performance, scalability, and economic feasibility of renewable energy systems.
- 3. Developing Replicable Models:** Developing replicable models and frameworks based on the findings from Odisha, which can guide similar projects across other urban locations in the state.



Trident Academy of Technology is currently implementing a Building Integrated Photovoltaics (BIPV) project in collaboration with the State Government, GRIDCO, Deloitte India, and the German development agency GIZ. This initiative focuses on incorporating solar technology into building designs, allowing energy generation to be seamlessly integrated into the architectural framework. The partnership aims to create energy-efficient institutional structures while contributing to research and innovation in solar-powered infrastructure. Through this project, the academy reinforces its dedication to pioneering green technologies and advancing the goals of sustainable urban development.

Trident Academy of Technology extends its sustainability mission beyond campus boundaries through community outreach initiatives. A notable example is the tree plantation drive conducted at the Sikharchandi area, which made a meaningful contribution to increasing local green cover and fostering environmental awareness among students and residents. The event highlighted the importance of tree conservation and environmental stewardship. Participants were provided with refreshments and recognized with certificates for their active involvement. This initiative not only strengthened the bond between the campus and the community but also served as a reminder of the collective responsibility to nurture a greener and more sustainable Odisha.