Report on Study Visit to Bhajanghat 10 MW Solar Power Project under WBREDA

Organized by

The Science Departments of Government General Degree College, Tehatta in Collaboration with IQAC

A study visit to the Bhajanghat 10 MW Solar Power Project under West Bengal Renewable Energy Development Agency (WBREDA) was conducted on 30.11.2024. A total of 19 students from the Science Departments (Physics, Chemistry and Mathematics), accompanied by 4 teachers, participated in the educational tour.

Objective of the Visit

- To provide students with first-hand exposure to solar photovoltaic (PV) power generation.
- To understand the functioning of large-scale solar panels, inverters, charge controllers, and grid-integration mechanisms.
- To relate classroom concepts of renewable energy with real-field applications.
- To create awareness about sustainable energy practices and environmental benefits of solar power.

Details of the Visit

Upon arrival, the project personnel welcomed the group and initially demonstrated the layout and functioning of the solar plant. They explained the arrangement of solar PV modules, the tracking mechanism, inverter rooms, control units, and the process of feeding generated electricity into the power grid. Following this, the teachers further helped the students to understand each section more elaborately, clarifying concepts related to photovoltaic conversion, efficiency of panels, energy storage, and operational safety measures. Students interacted with both site personnel and teachers, enriching their technical understanding.

Outcome of the Visit

- Students developed a clear understanding of the practical workflow of a utility-scale solar power project.
- They learned about energy production calculations, plant efficiency, and challenges of renewable energy integration.
- The visit helped bridge the gap between theoretical knowledge and real-life applications in sustainable energy.
- Students became more aware of the importance of solar energy as an environment-friendly alternative and its role in future energy strategies.

Conclusion

The study visit to the Bhajanghat 10 MW Solar Project proved highly informative and beneficial for the students of the Science Departments. The department plans to undertake similar field-based learning activities to enhance practical exposure and encourage scientific awareness among students.

(Signatures of Accompanying Teachers)

1. Sumit Kumar Das 02/12/2024
2. Sanjoy Satpati.
3. Susmita Chowdhury
4. Gopal Mandal

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02/12/24

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Photo Gallery of Study Visit to Bhajanghat 10 MW Solar Power Project under WBREDA