



Government Engineering College, Gandhinagar

Brief Report on “Visit to 1 MW PDPU Solar Power Plant, Gandhinagar”

Name Of Department/Organizer	Electrical Engineering Department
Date & Time	12/08/2026 At 10:30 AM
Venue	PDPU Solar Power Plant, Gandhinagar
No. of Participants	60
Organized By	Prof. Jignasha Prajapati Prof. Mihir Chaudhari

- **Objective of The Event**

On 12th August 2026, an industrial visit to the **1 MW PDPU Solar Power Plant** was organized as a part of the academic curriculum for “**Renewable Energy Technology**” for the **5th semester students** of the Electrical Engineering Department at Government Engineering College, Gandhinagar. The visit was conducted under the major activity head of “**Technical / Research Skill**” and sub-activity head of “**Industrial/Exhibition Visit with Report**”. A total of approximately **60 students** actively participated in this industrial visit. The visit was guided and accompanied by the **Prof. J. A. Prajapati** and **Prof. M.B. Chaudhari**, ensuring proper understanding, discipline, and active participation throughout the activity. The primary objective of this industrial visit was to bridge the gap between theoretical knowledge gained in the classroom and practical exposure to a real-world solar power generation system. During the visit, students were able to observe and understand the working of various components involved in solar power generation, including solar PV modules, module arrays, mounting structures, inverters, DC and AC systems, transformers, protection equipment, monitoring and control systems. The visit provided students with valuable practical knowledge about the operation, maintenance, efficiency, and challenges associated with a grid-connected solar power plant.

- **Outcome of The Event**

All the students reached the **PDPU Solar Power Plant, Gandhinagar** at **10:30 AM on 12/08/2026**, along with their faculty coordinators from “**Government Engineering College, Gandhinagar**”. During the introduction, students learned about the basic working of a solar power plant and how solar energy is converted into electrical energy using photovoltaic (PV) technology. The students were divided into groups of **30 students each**, and each group was guided by the technical staff of the plant. During the visit, students observed important parts of the plant such as PV modules, solar arrays, mounting structures, inverters, transformers, protection systems,

monitoring systems, and the switchyard. They also gained practical knowledge about solar radiation, tilt angle, azimuth angle, MPPT, energy generation, efficiency, and system losses. The students were asked to prepare a brief report on the industrial visit as part of the “**Renewable Energy Technology**” course.

Overall, the industrial visit was informative and useful for the students. It helped them connect the concepts learned in the classroom with their practical application in a grid-connected solar power plant. The visit improved their technical knowledge, practical understanding, and awareness of modern solar energy technology and gave them a better idea of how renewable energy is used for electricity generation.

- **Event Photographs**

