



# G.S.L DENTAL COLLEGE & HOSPITAL

GSL Dental college Hospital

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## 7.1.3 The institution has facilities for alternate sources of energy and energy conservation devices

Energy conservation and sustainability are priorities for GSL Dental College. The organization has a number of amenities that encourage the usage of renewable energy sources, such as solar power systems. These technologies contribute to a greener environment by lowering dependency on conventional energy sources. The college has also implemented energy-saving measures to reduce energy usage, such as LED lighting and energy-efficient equipment. By taking these steps, the college's carbon footprint is reduced and staff and students are made more conscious of the value of sustainable practices and renewable energy. Through the integration of these technology, GSL Dental College actively promotes environmental responsibility.

Solar energy	Yes
Wheeling to the grid	Yes
Sensor based energy conservation	Yes
Biogas plant	No
Use of LED bulbs/power efficient equipment	Yes

## **SOLAR ENERGY**

GSL Dental College's dedication to sustainability includes the adoption of solar energy. Part of the campus's electrical needs are met by a solar power system that uses sustainable energy. By reducing the college's reliance on traditional power sources, this solar installation helps to decrease its carbon footprint and cut energy expenditures. The organization supports international efforts to tackle climate change and encourages environmental responsibility by utilizing sustainable energy. The solar energy system not only guarantees a consistent flow of energy but also highlights the value of renewable energy in contemporary society and acts as a teaching tool for students.

## **WHEELING TO THE GRID**

By installing a wheeling-to-the-grid facility, GSL Dental College is able to feed excess solar energy back into the nearby electrical system. This technology encourages sustainability and energy saving by allowing the college to use its solar panels to produce renewable energy and feed any excess electricity into the grid. By taking part in this energy exchange, the college lowers its electricity expenses and promotes cleaner energy availability for the larger community. The wheeling facility supports the effective management of energy resources and demonstrates the college's proactive use of green energy solutions, which is consistent with its dedication to environmental responsibility.

## **SENSOR BASED ENERGY CONSERVATION**

To improve its energy efficiency, GSL institution uses sensor-based energy conservation technologies. These systems make sure that lighting and HVAC (heating, ventilation, and air conditioning) systems are only turned on when necessary by using motion and occupancy sensors. For example, lights in offices, hallways, and classrooms are turned on and off in response to people's presence or movement. This method optimizes electricity use throughout the school and drastically cuts down on wasteful energy use. The college's dedication to sustainable practices is demonstrated by the installation of sensor-based energy conservation, which lessens its environmental effect while encouraging energy efficiency across the board.

## **USE OF LED BULBS/POWER EFFICIENT EQUIPMENT**

GSL institutions places a high priority on energy efficiency, as evidenced by the widespread use of LED lights and power-saving devices on campus. Compared to conventional incandescent bulbs, LED lighting uses a lot less energy and produces strong illumination in workplaces, classrooms, hallways, and outdoor spaces. The organization also makes sure that power-efficient devices are utilized in different departments and buildings, including energy-efficient computers, air conditioners, and other appliances. These energy-saving devices lessen the college's carbon impact, cut operational expenses, and use less electricity. GSL institution encourages responsible energy consumption within the campus community and shows its dedication to sustainability by implementing such measures.