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### **7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures**

Institutions of all kinds are increasingly embracing sustainable practices through the implementation of alternative energy sources and energy conservation measures. These initiatives reflect a commitment to environmental responsibility and economic efficiency. Solar panels adorn campuses, harnessing renewable energy from the sun.

Biomass energy solutions turn organic waste into a valuable source of heat and electricity. Biogas Plant, this sustainable energy facility harnesses the power of organic waste to produce biogas, a clean and renewable energy source.

LED lighting illuminate and regulate spaces with minimal energy usage. Smart building technologies employ sensors and automation to optimize energy consumption based on occupancy and weather conditions. Energy management systems and storage solutions ensure institutions operate sustainably and economically in a rapidly evolving world.

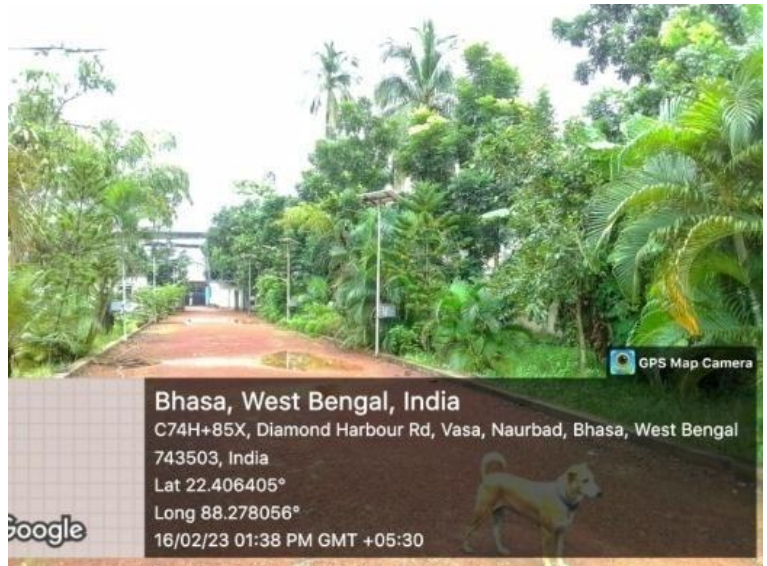
1. **Solar Energy** - The transformation of energy that is present in the sun and is one of the renewable energies. Once the sunlight passes through the earth's atmosphere, most of it is in the form of visible light and infrared radiation. Plants use it to convert into sugar and starches; this conversion process is known as photosynthesis. Solar cell panels are used to convert this energy into electricity.

**Web Site URL** - <https://asutoshcollege.in/new-web/solar-plant.html>

### Hazra Campus



### Bhasa Campus



**2. Biogas plant** - A gaseous renewable energy source produced from raw materials such as agricultural waste, manure, municipal waste, plant material, sewage, green waste, wastewater, and food waste.

**Web Site URL** - <https://asutoshcollege.in/new-web/biogas-plant.html>



### 3. Wheeling to the Grid:

N.A

### 4. Sensor-based energy conservation:

**Street lights have dusk & Dawn facility, thus conserves energy** - Measures taken to conserve energy and utilize alternate source of energy.



**5. Use of LED bulbs/ power efficient equipment -** Energy efficient appliances and equipment use technologies that are less energy intensive to reduce the amount of electricity used per product.

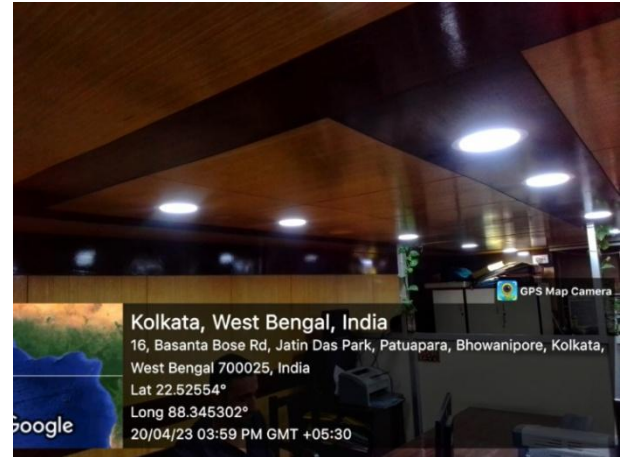


Fig. A Off state

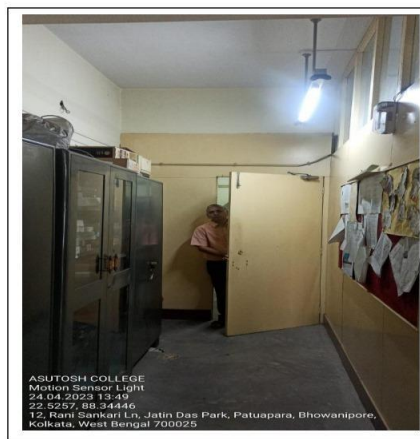


Fig. B On State

*Mona Kabi*

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