**Ensure access to affordable, reliable, sustainable and modern energy for all**

### 7.2.4 Plan to Reduce Energy Consumption:

### 1. Green Energy Initiatives:

1. The energy efficient appliances are installed whenever replacement is done in all areas like, LED lightings, Air conditioners, Energy efficient fans and Geysers.
2. Renewable energy sources like **Solar Plant and Biogas Plant** are used to meet 45% of the energy requirement.
3. The institution has also installed **152 solar street lights** throughout the campus
4. **Solar water heaters** are installed in the hostels and solar pumps are installed in the agriculture farms to tap solar energy.
5. Most new buildings are designed in a **square or rectangular shape, with open space left in the center**. This layout allows **natural sunlight** to enter the buildings, making the interiors brighter and more comfortable.
6. Movement sensed **automatic door opening-closing system** is installed in the administrative building to conserve energy.
7. **EV's and bicycles** are used for campus shuttle services.
8. The university follows the concept of Smart buildings equipped with **efficient ventilation systems** and surrounded by green belts and plantation for healthy environment around the buildings.
9. The Indoor environments of the buildings have sufficient intensity of light and well aeration to have the conducive environment for Teaching Learning purpose.
10. Smart buildings improve the indoor air quality and lighting in a significant wing and consumes lesser energy sources.
11. Smart metering improves monitoring and control of electricity usage and eliminates wastages.

    Proof Link: https://www.kalasalingam.ac.in/unsdg-sdg7/#7

### 2. Impact of policies on Climate and the Environment

To offset the climatic conditions and to have sustainable environment, the institution is committed to carry out all its operations by considering climate and the environment in line with the national and international policies.

1. **Explicit policy on Energy management.**

   KARE sees the importance of energy, which the university has a **policy on energy management**, as well as providing training to educate people about energy management to personnel, including students, to be aware and to comply correctly according to the principles. As a result, the University started use renewable energies through **solar plant, solar street lights, biogas.**

   **Policy document:**
   https://www.kalasalingam.ac.in/wp-content/uploads/2021/11/Energy-Policy.pdf

2. **Policy on Maintenance**

   The maintenance policy of the institution aims to effectively manage and maintain all facilities, resources, and amenities, including buildings, roads, gardens, trees, computers, classrooms, seminar halls, equipment, and laboratories on the campus.

   **Maintenance Objectives**

   ● Ensure buildings are safe and efficient for use.
   ● Minimize risks of fires, accidents, and safety hazards.
   ● Keep facilities continuously available for academic use without interruptions.
   ● Protect the college's infrastructure through proper planning, preventive maintenance, and scheduling.
   ● Conserve energy using modern technologies and energy-saving measures.
   ● Ensure classrooms, seminar halls, and faculty rooms with ICT facilities are properly maintained and upgraded.
   ● Ensure IT networks, CCTV cameras, and DVRs are well-maintained throughout the campus.

   The institution committed to regularly reviewing and updating the maintenance policy, which is transparently available on the institute's website.

   **Policy Document:**
   https://www.kalasalingam.ac.in/wp-content/uploads/2021/11/Maintenance-Policy.pdf