



07. Clean and Affordable Energy

07-02 University Actions Towards Affordable and Clean Energy

07-02-02 Does your university have plans to upgrade existing buildings to achieve higher energy efficiency?

Yes, university has developed an ambitious and phased strategic plan to modernize existing buildings and improve their energy efficiency:

Phase One - Pilot Initiative (Under Implementation):

The university's first initiative in using clean energy is employing solar energy to provide general lighting within the campus, representing its initial experience that requires expertise in maintenance and management.

Phase Two - Strategic Expansion Plan:

The university plans to expand the use of solar energy after conducting technical studies and securing necessary funding. Planned applications include:

- **Night Lighting:** Expanding the scope of solar lighting systems to cover all outdoor areas.
- **Water Pumps:** Operating drinking water pumps with solar energy to achieve sustainability in water resource management.
- **Security Systems:** Supporting surveillance and alarm devices with renewable energy sources to ensure their continuity.

Planned Structural Improvements:

- Inspecting and improving thermal insulation of existing buildings to reduce heating and cooling needs.
- Replacing old equipment with high-efficiency alternatives.
- Installing smart energy management systems to monitor and optimize consumption.

Gradual Approach:

The university follows a gradual methodology based on:

- Comprehensive technical assessment of each building's needs.
- Prioritizing interventions based on environmental and economic returns.
- Building institutional capacity in maintaining and managing renewable energy systems.

This integrated plan reflects our commitment to the gradual transition towards a low-carbon and environmentally and economically sustainable campus.

