



European University of Lefke Energy Conservation Program

The aim of the Energy Conservation Program applied in European University of Lefke (EUL) is to reduce energy consumption and the use of fossil fuel on campus, integrate renewable energy applications and preserve energy resources for future generations.

Awareness of EUL Community

We, as European University of Lefke, are following the concept of "Think globally and act locally" by increasing the awareness to simple actions, which would help us make major differences in our University's environmental footprint. The actions that our staff and students and made aware of include:

- Keeping doors and windows closed when heating and cooling systems are on to save energy.
- Turning heating-cooling systems on only when required. Our security officers are taking role in controlling the use of heating-cooling systems outside the working hours.
- Avoiding personal heaters that could contribute to energy consumption.
- Turning on lights only when necessary. The aim is to maximize the benefit from daylighting and reduce the need for lightning. Our security officers are checking lights of all of the buildings outside the working hours.

Community Initiatives on energy saving: Social interaction has potential to increase awareness on energy conservation. Based on this concept, we are implementing social interaction programs, such as competitions to enhance energy conservation awareness and support staff and students to reduce their energy use.

Energy Management is everyone's responsibility. In order to help students to gain knowledge about the importance of saving energy, banners have been prepared and posted on campus noticeboards. Additionally, social network and digital media have been used to increase awareness on energy conservation strategies among EUL community. This is also important in terms of adopting behaviours towards

conservation of energy during whole life, even after the graduation from the university.

Energy Efficient Lightning

- LED-lights, which use considerably less energy, have been used throughout the campus for 5 years.
- Motion sensor LED lights have been installed along most of the communal areas to reduce the consumption of unnecessary use of electricity for 6 years
- Throughout the campus, energy used in exterior poles is produced by Solar systems attached to them to reduce energy consumption for street lighting.

Significant energy savings have been achieved through our energy efficient lightning actions.

Energy Efficient Heating and Cooling

Centrally managed systems are used to monitor the effective use of energy for heating and cooling in some of the buildings on campus. Our future plans include implementing more energy efficient central systems to control energy consumption throughout the main campus.

Energy-Efficient Appliances and Equipment

The appliances and equipment used on campus are all energy efficient and equipped with products labelled with A+, A++ or A+++ grades according to European Union energy labelling such as;

- Cooking appliances, fridges, washing and drying facilities in residence halls
- Computers and printers used in offices
- Laboratory equipment used throughout campus
- High-speed hand dryers that are 80% more efficient

Energy-Efficiency Management in Campus Buildings

In the existing buildings, we aim to supply 25% of our energy demand through renewable energy opportunities in these buildings. We will increase our target on yearly basis. Informative signs for staff and students are now available on the noticeboards regarding to reducing our energy needs.

Building Fabric and Renewable Energy Applications

Our aim is to increase energy efficiency through, initially building fabric and then renewable energy options. All the existing buildings on our campus building fabrics are improved to provide better thermal performance. In parallel with this, all the inefficient existing windows have been replaced with double-glazing ones.

On the south facing roofs of some buildings in the campus, we have installed photovoltaic system to produce electricity by using sunlight, considering the appropriate climate of the island of Cyprus for this purpose. We are planning to implement photovoltaic systems on the remaining buildings to improve the use of sunlight in order to meet majority of energy need of our campus with renewable resources.

In all the buildings on the campus, hot water is supplied through solar panels. Additionally, energy for heating up living areas of residence halls on campus is managed up by heat pump system, which allows efficient and cost-effective production of heat.

We are planning to isolate roofs of our academic and residence buildings with reflective roofs, which will help to reflect sunlight and prevent heat to warm up inner areas, reducing the consumption of energy.

Education and Training EUL community

We are aiming to provide education and training on the importance of environmental footprint and ways of reducing the consumption of energy to all EUL Community. Regular trainings have been organized for administrative and academic staff on importance of energy efficiency on campus. Additionally, Post-Graduate students in the Environmental Sciences Program have been conducting research on environmental knowledge behaviour and awareness of EUL community.

Future Action Plan

Based on our current performance, we aim to improve our environmental footprint further. The targets in our future action plan are as follows:

- Developing achievable and practical plans to reach to our energy conservation goals
- Determining clear measures and verification procedures to evaluate our action strategies.
- Reducing total energy consumption by a minimum of 3% per year
- Considering integrated design in order to reduce the use of natural resources and maximize the energy efficiency in new buildings
- Considering more environmentally friendly and lower Global Warming Potential (GWP) mechanical systems for cooling purposes. Lower NOX emissions heat systems are going to be preferred to lessen pollution to the environment.
- Considering adaptability for global warming scenarios in our new buildings.

The Energy Efficiency Committee

The committee is made up of an energy conservation working group that includes representatives from academia, industry and professional volunteers.