CLIMATE ACTION PLAN

The climate is changing, time for action

LAST REVIEW: SEP 2022

Frederick University

Energy Policy

Frederick University firmly believes that key to its mission is being a force for positive change in the society. Unequivocally, one of the central problems facing humanity now is the use of unsustainable energy sources and climate change at large.

As a responsible institution, we have developed an energy policy to steer decisions related to sustainable energy use and achieve a reduction in overall greenhouse gas emissions, with the purpose to mitigate the environmental impact of the institution by 2030 by 55% in line with the 'Fit for 55 package' of the European Commission.

This dedication is further strengthened by the responsibility stemming from our leading role in Research on energy matters, including sustainable energy technologies, low carbon buildings and infrastructure, as well as on Education for a sustainable environment.

Our pledge

- **Regulatory compliance**: At a minimum, we shall fully abide by all legal and other requirements related to energy management as specified under Cyprus Law and relevant EU and national directives and guidelines (e.g. EU Directive 2018/2002/EC, EU Directive 2018/844/EC, EU Directive 2018/2001/EC)

- **Building construction and renovation**: We shall treat energy efficiency as the factor with the highest weight in any decisions taken for renovation or new building construction for the university, in compliance with regulatory framework on nearly zero energy buildings, as well as implement a review cycle on progress in order to ensure that a process of continuous improvement is achieved.

- **Renewable energy use in buildings**: By 2030 all buildings in which the University operates and are owned directly or indirectly by the University (more than 80% of used premises) shall reach 80% renewable energy use and that existence of renewable energy will be a key factor in renegotiation of new leases. Furthermore, by 2040 the University will use 100% of its energy from renewable sources.

- **Regular Energy Audits**: We shall maintain, track and provide - where necessary - information regarding energy efficiency matters, including energy audits.

- **Fossil fuel divestment**: No investments of the university are or will be made on fossil-fuel industries and the university shall have no financial assets (such as stocks in related companies) that are primarily related to carbon-intensive activities.

- **Raising awareness on energy savings**: We shall ensure that all members of the community are appropriately aware of the importance of energy saving and mechanisms through which this can be achieved.

To support this commitment and achieve all the above an action plan has been developed. Our Climate Action Plan is reviewed and updated on an annual basis to reflect the progress made, internal or external factors that may have changed and new strategies.

The plan outlines the strategic targets of the university in relation to its energy use and monitors the implementation of relevant actions.

Actions are organized into the following target areas:
- Governance: compliance with regulatory framework, policies, trainings
- Facilities: Building construction and renovation
- Energy Use: Energy production and use of renewable energy

This table summarizes the progress status on the action plan's main target

Target Area	**Action**	**Expected/ Completed**	**Notes**
Governance	Develop and adopt ISO 50000 Energy Management System	Fall 2022	
Governance	Obtain ISO 50000 Energy Management System certification	Spring 2023	The University hired a consultant to implement the necessary framework.
Governance	Complete energy audits on buildings	Spring 2021	
Governance	Training on energy conservation	Rolling	Training programs on best practices for energy conservation in the workplace offered annually.
Governance	Hybrid Classrooms	Fall 2021	All general-purpose lecture theatres are equipped with hybrid teaching capabilities so as to allow students to participate remotely.
Governance	Remote working policy	Pilot implementation 2022-23	Implementation of pilot policy with measures including capacity for workers to partially work from home, virtual office hours, policy for teleconferencing meetings, and minimization of intra campus mobility and virtual presence.
Governance	Timetabling directive	Fall 2018	Adopt policy to limit number of days faculty and students need to be at University premises so as to minimize transport needs.
Facilities	Light change to LED	Rolling completion Start 2017 – complete 2023	Change all lighting in University buildings to energy efficient (LED) alternatives. Buildings Completed: Main Nicosia Building (NM), Limassol Building (LM), Architecture Dept. Building (AR), CYTA Building (CB), Nicosia New Wing Building (NW) - partial, Library Building (LB) - partial. Buildings to Be Completed: Engineering Laboratories Building (EL).
Facilities	Heat Insulation in buildings	Rolling Completion Fall 2019 (LB), Spring 2022 (LM), Fall 2024 (AR)	Improve insulation of old buildings. Issues identified with: Library Building (LB), Architecture Dept. Building (AR), Limassol Building (LM). Planning impeded by COVID pandemic.
Facilities	Limassol building expansion	Spring 2022	Limassol building expanded with an additional floor and expansion and renovation of main floor facilities. Energy efficiency was prioritized in tender in relation to shell insulation (ceiling and sides), energy efficient external glasses, and energy efficient lighting. Works commenced in Spring 2021.
Energy Use	Assess all university-owned buildings and plan for replacing 80%+ of energy needs from Renewable energy	Spring 2021	Assessment was conducted on all University-owned buildings: Nicosia Main Building (NM), New Wing (NW), Architecture Dept Building (AR), Library Building (LB), Engineering Laboratories (EL), Limassol Building (LM). Study suggests in the first phase the installation of photovoltaic units that would cover between 50% and 75% of electricity consumption depending on type and use of building.
Energy Use	Deploy photovoltaic units to address energy needs	2023 (LM) 2024 (EL) 2025 (AR) 2025 (LB) 2026 (NM) 2026 (NW)	Feasibility and impact study completed. The plan for adoption of photovoltaic systems is even more urgent given the global energy crisis. Unfortunately, implementation is delayed due to problems in the global supply chain of such systems.

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