



Net Zero Carbon Plan 2024-2050



Introduction

The term "**Net Zero Carbon**" refers to minimizing greenhouse gas emissions as much as possible and then offsetting the remaining emissions by enhancing carbon sinks that remove carbon dioxide from the atmosphere.

Suez Canal University has set an ambitious goal to achieve a nearly net-zero campus by 2050, aligning with the efforts of 1,118 other educational institutions striving for a healthier, fairer, and cleaner future. Achieving net zero involves a balance: the greenhouse gas emissions released into the atmosphere must be equal to those removed. This requires significant emission reductions and investment in carbon-offsetting projects, underscoring the university's commitment to sustainability and environmental stewardship.

Net Zero plan to confront climatic changes

Our target is to achieve Net Zero by transforming our campus into an environmentally friendly space through the implementation of various strategic initiatives and projects. These efforts will focus on reducing greenhouse gas emissions, enhancing energy efficiency, promoting renewable energy sources, and supporting sustainable practices across all aspects of campus operations. To systematically address this, greenhouse gas emissions are categorized into three groups or 'scopes' as defined by the widely recognized Greenhouse Gas (GHG) Protocol.

- **Scope 1**

Direct emissions from sources we own and control, such as heating systems and vehicle emissions.

- **Scope 2**

Indirect emissions from the energy we purchase, such as for heating and lighting campus buildings.

- **Scope 3**

All other indirect emissions from activities such as staff and student commuter travel, business travel, and the procurement of goods and services.

As a civic university, we recognize our social responsibilities and have taken proactive steps to reduce carbon emissions, greenhouse gases, and other harmful environmental impacts. Our commitment includes achieving a Net Zero carbon estate across all scopes by implementing innovative solutions and fostering sustainability in every facet of our

operations. Achieving a net zero carbon estate for the previously mentioned scopes will involve the following actions

1. **Assessing The Current Situation**

- Conducting a carbon emissions inventory: Identifying the main sources of emissions on campus, such as energy consumption, transportation, and waste.
- Data analysis: Measuring the current level of emissions using international standards (such as the Greenhouse Gas Protocol).

2. **Determining Emission Reduction Targets**

- Setting measurable goals: Reducing emissions by a certain percentage within a specific period (such as 20% within 5 years).
- Aligning goals with the United Nations Sustainable Development Goals and prioritizing the most impactful areas.

3. **Reducing Energy Consumption**

- Switching to renewable energy: Installing solar panels on campus to use clean energy.
- Improving energy efficiency: Updating heating, cooling, and lighting systems to be more efficient, such as using LED lighting and energy control systems.
- Enhancing resilience of our campuses through our social values, improved biodiversity, wellbeing, culture and the reduction of consumption, waste, and emissions.

- Prioritizing resources based on environmental aspects and environmental impacts as outlined within the environmental management system optimizing the reduction of carbon, consumption, and waste.

4. **Sustainable Transportation**

- Encouraging environmentally friendly transportation: Providing safe spaces for parking bicycles, and motivating students and employees to use them.
- Electric buses: Introducing a fleet of electric buses to reduce emissions from transportation.
- Shared transportation: Encouraging car sharing programs between employees and students to reduce the use of personal cars.

5. **Waste Management**

- Recycling: Enhancing waste sorting systems and providing recycling stations on campus.
- Reducing consumption: Reducing the use of single-use plastics, and relying on sustainable alternatives.
- Composting: Converting organic waste into compost for use in university gardens.

6. **Awareness and Education**

- Workshops and seminars: Organizing events to raise awareness among students and employees about the importance of reducing carbon emissions.

- Sustainability Hub: The Hub is the online home for the Student Sustainability Network featuring a collection of resources: self-study online courses; a diary of events; and a database of projects, volunteering, and work placement opportunities.
- Curricula: Integrating environmental sustainability and climate change topics into curricula.

7. Innovation and Scientific Research

- Research support: Encouraging research focused on renewable energy and green technology.
- Joint projects: Collaborating with local and international research institutions to develop innovative solutions to reduce emissions.

8. Monitoring and Evaluation

- Periodic reports: Preparing annual reports to monitor progress in achieving goals and reducing emissions.
- Continuous evaluation: Modifying the plan based on data and climate changes to achieve better results.