



SDG13: Climate Action

Annual report (2023)

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Details via web link: <https://www.aun.edu.eg/AUIRO/index.php/en/sdg13>

Assiut University is actively contributing to the international efforts in protecting our climate. including carbon reduction, and environmental education. Through energy efficiency measures, educational programs, partnerships, and a commitment to carbon neutrality.

1. Measuring and Reducing Carbon Emissions

- **Low-Carbon Energy Use:**

Assiut University has made important improvement in low-carbon energy consumption, with 18% of its total energy consumption derived from low-carbon sources, equating to 112,508 GJ out of a total energy usage of 182,124 GJ.

- **Carbon Footprint Education:**

As part of the First Student Green Dream Conference in November 2023, Assiut University hosted a seminar on the "Carbon Footprint," emphasizing the importance of carbon reduction strategies to students and the broader campus community.

- **Clean Energy in Agriculture:**

The university's Faculty of Agriculture is cultivating Jojoba, an eco-friendly plant, as a clean energy source. Jojoba is an industrial crop resilient to desertification and climate change, illustrating Assiut University's commitment to sustainable agricultural practices.

Time Plan

of Five Years Strategic Plan Zero Carbon Emission University

no	Topic	period	Month 5	Month 10	Month 15	Month 20	Month 25	Month 30	Month 35	Month 40	Month 45	Month 50	Month 55	Month 60
1	Carbon Footprint Calculation of Assiut University	10												
2	University Energy Monitoring	25												
3	Improvement of Electrical Energy Consumption Efficiency	30												
4	Renewable Energy Installation in Assiut University	50												
5	Green Education, Training and Research	30												
6	Increase University Public Transportation	30												
7	Replacement of Oil University Buses by Electrical Buses	50												
8	Campus Greening	20												
9	Sustainable Research Institute	30												

2. Environmental Education and Climate Change Awareness

• Educational Programs on Climate Change:

Assiut University has 312 undergraduate courses and 134 postgraduate courses that address climate and environmental sustainability. Additionally, 8 specialized programs and 6 new courses have been introduced to enhance climate sustainability awareness among students.

• Climate Research:

The university endorses climate-related research by offering 123 study, 29 joint supervisions, 58 scientific missions, and 54 international scholarships. This led to 770 published articles and 127 books and book chapters on climate and environmental sustainability.

Environmental Conferences and Seminars:

Assiut University organized the 12th International Conference on Development and Environment in the Arab World in 20243, providing a platform for experts to discuss sustainability and environmental challenges.

3. Cooperative Climate Action and Planning

NGO Partnerships on Climate Adaptation: •

Collaborating with NGOs, Assiut University supports initiatives focused on climate adaptation. These partnerships strengthen local resilience efforts, addressing both immediate and long-term climate challenges. Tree Planting :Initiatives at Assiut University under the "Go Green" Initiative



- 4,000 Jojoba trees were planted at the Faculty of Agriculture's demonstration farm, in collaboration with the Egyptian-Gulf Agricultural Land Company.
- In 2023, a nursery for mahogany trees—high-quality wood for furniture making—was established, utilizing wastewater/industrial drainage/well water.
- During the 2022/2023 academic year, 655 fruit trees and 612 non-fruit trees were planted across the Assiut University campus.
- Under the presidential "100 million Trees" initiative, 1,000 fruit trees were planted at Assiut University during the 12th International Conference on Development and the Environment in the Arab World, held from February 25–27, 2024.

4. Commitment to Carbon Neutrality

- **Carbon Neutrality Strategy:**
Assiut University aims to become a carbon-neutral campus by following the Greenhouse Gas Protocols. Key strategies include.
- **Building Efficiency:** Advancing in energy-efficient buildings and green construction practices.
- **Transportation Initiatives:** Promoting eco-friendly transportation options to minimize emissions.
- **Waste Management:** Introducing efficient waste management practices, including recycling and composting, to reduce campus waste.
- **Tree Planting for Carbon reduction:**
As part of the "Go Green" Initiative, Assiut University planted 4,000 Jojoba trees in 2021 and expanded to other tree species, such as mahogany and eucalyptus, in the following years. These trees sequester CO₂, contributing to the university's climate adaptation and emission reduction goals. In 2024, under Egypt's "100 million Trees" initiative, the university planted 1,000 additional fruit trees to support carbon absorption and enhance green spaces.

5. Local Ecosystem Maintenance and Pollution Prevention

- **Plastic and Paper Waste Reduction:**
The university has a dedicated policy to reduce paper and plastic waste on campus by promoting electronic exams and communication, reusable containers, and recyclable materials. These measures aim to decrease waste generation and promote sustainable resource use.