Tanta University - Faculty of Engineering

Carbon Footprint Report 2024/2025

WHAT IS A **CARBON** FOOTPRINT?

A carbon footprint is a tool used to assess the environmental impact of an organization or activity by measuring the amount of greenhouse gases – the main contributor to global warming – emitted into the atmosphere each year.

At Tanta University - Faculty of Engineering, the main contributors to greenhouse gas emissions include:

- Heating, Ventilation and Air Conditioning (HVAC)
- Electricity consumption for lighting and laboratory equipment (Non-HVAC)
- Transportation and commuting
- Water supply and wastewater treatment
- Paper consumption
- Solid waste disposal
- Refrigerant leakage from cooling systems.

The carbon footprint is expressed in metric tons of carbon dioxide equivalent ($MTCO_2e$).

FACULTY OF ENGINEERING
CARBON FOOTPRINT
AY 2024/2025

BREAKDOWN OF EMISSIONS	
Category	Share
HVAC	30%
Transportation	43%
Lighting and Equipment (Non-HVAC)	16%
Water Supply	2%
Paper Use	3%
Refrigerants	4%
Solid Waste Disposal	2%

For more detailed information regarding the Faculty's carbon carbon footprint, please visit the Faculty of Engineering's susta-h's sustainability webpage for previous reports.

www.tantaeng.edu.eg/sustainability

ACADEMIC YEAR
2024/2025

DID YOU KNOW?

10,800  $MTCO_2e$

= 89,386  barrels of oil burned

Carbon sequestered by growing

= 638,387  trees for 10 years

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ACADEMIC YEAR
2024/2025

BREAKING DOWN
THE FACULTY'S CARBON FOOTPRINT

30%
HVAC

5.5
Carbon emissions per full-time student

43%
Transportation

16%
Lighting and Equipment (Non-HVAC)

8,362 metric tons
Emissions from commuting to campus by private car

www.tantaeng.edu.eg/sustainability

ACADEMIC YEAR
2024/2025

Looking to the Future

By implementing sustainability initiatives, we aim to reduce our carbon footprint by **1,515.7 $MTCO_2e$** annually, aligning with Race to Zero goals.

1

Walk, cycle, take the TTC bus or carpool to campus.

2

Conserve water.

3

Use email or print double-sided only.

4

Implement on-campus composting.

2

Walk, cycle, take the TTC bus or carpool to campus.

4

Turn off lights and unplug electronics when not in use.

5

Use email or print double-sided only.

7

Implement on-campus composting

Increase the TTC bus density without compromising the health of the

9

Explore Eco-Rep program to oversee sustainability in student spaces.

www.tantaeng.edu.eg/sustainability

A Message from the Dean

Faculty of Engineering – Tanta University

Climate change represents one of the most critical challenges facing higher education institutions worldwide, The Faculty of Engineering at Tanta University recognizes its responsibility to contribute actively to mitigating environmental impacts and to preparing future engineers capable capable of building a more sustainable society.

Our Faculty has long been committed to integrating sustainability into education, research, and campus operations. By initiating the first Carbon Footprint Report for the Faculty of Engineering, we aim to institutionalize environmental performance monitoring and promote transparency in measuring and managing our greenhouse gas emissions.

This report reflects a collective effort involving academic staff, researchers, engineers, technicians and administrative teams across the Faculty. It forms part of our broader strategy aligned with Egypt Vision 2030 and the United Nations Sustainablle Development Goals (SDGs), with the ambition to significantly reduce our carbon emissions over the coming years and to move towards a low-carbon campus.

We are confident that this report will not only serve as a baseline for continuous improvement, but also as a model for other faculties and universities in Egypt and the region. Together, we remain committed to being responsible stewards of our environment and to fostering a culture of sustainability among our students and staff.

Dean of the Faculty of Engineering
Tanta University

Faculty of Engineering – Tanta University

To learn more about sustainability at the Faculty of Engineering, tanta University

www.tantaeng.edu.eg/sustainability

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