13.4.1 Commitment to Carbon Neutral University

2024-2025

AASTMT has a public target to reach net-zero greenhouse gas emissions by 2050. According to the AASTMT Net-Zero Commitment page, the commitment was made in 2022, when AASTMT joined the UNFCCC Race to Zero campaign. The target is measured under the GHG Protocol and, according to the AASTMT Climate Action Plan 2025–2030 (created 2024; version 2, last reviewed 2026), covers Scope 1, Scope 2 and selected Scope 3 categories, with interim targets of at least 45% reduction by 2030 and 50% by 2040 against 2019.

AASTMT's public commitment

Race to Zero, 2022

The AASTMT Net-Zero Commitment page states that in 2022 AASTMT made a public commitment to achieve net-zero greenhouse gas emissions by 2050, formally joining the Race to Zero campaign led by the United Nations Framework Convention on Climate Change. According to the page, the pledge was made at the highest level of leadership, is embedded in the AASTMT Strategic Plan 2021–2026, where sustainability is one of four core pillars, and is aligned with the Paris Agreement and Egypt's National Climate Change Strategy 2050. It is structured around four pillars: Pledge, Plan, Proceed and Publish.



Net-Zero Commitment

Race to Zero

AASTMT Net-Zero Commitment and Climate Action

Overview

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) is a proud and active participant in the Race to Zero Campaign, a global initiative led by the United Nations Framework Convention on Climate Change (UNFCCC). This campaign mobilises a coalition of non-state actors, including businesses, cities, regions, financial institutions, and academic institutions, in the shared mission to achieve a healthy, resilient, zero-carbon world.

Race to Zero is the largest global alliance of non-state actors committed to achieving net-zero carbon emissions by 2050 at the latest, in alignment with the Paris Agreement and the IPCC's recommendation to limit global warming to 1.5°C above pre-industrial levels.

AASTMT Public Commitment to Net-Zero

In 2022, AASTMT made a public and strategic commitment to achieve net-zero greenhouse gas (GHG) emissions by 2050, formally joining the Race to Zero Campaign. This commitment reflects the institution's dedication to mitigating climate change through leadership, education, and sustainable development, and is embedded in its Strategic Plan 2021-2026, which identifies sustainability as one of its four core strategic pillars.

The commitment is structured around four pillars:

AASTMT Net-Zero Commitment

Scopes covered by the 2050 target

Climate Action Plan 2025–2030, Section 2

Scope	What AASTMT includes	Covered
Scope 1	Fuel combustion in university-controlled sources; refrigerant emissions from air-conditioning and refrigeration	Yes
Scope 2	Purchased electricity, reported location-based, with on-site solar generation reported alongside	Yes
Scope 3	Selected categories: waste, paper, water, and transmission and distribution losses from purchased electricity. The wider categories of the 2024–2025 carbon footprint assessment are added as that assessment is extended to all campuses	Partial

The AASTMT Climate Action Plan 2025–2030 states: "Net-zero boundary: the 2050 target covers Scope 1, Scope 2 and the Scope 3 categories listed here (Scope 3 partial). Carbon credits do not count towards AASTMT's reduction pathway." The plan also states that the 2025 AASTMT Insights reports the 2024–2025 carbon footprint assessment of four campuses as a more comprehensive institutional emissions baseline, and that from the 2025 inventory onwards AASTMT will report its campuses with that method.

2. Scope and methodology

AASTMT accounts for its emissions under the GHG Protocol Corporate Standard, for the organisational boundary under its operational control, covering all campuses in Egypt:

- **Scope 1 (direct):** fuel combustion in university-controlled sources and refrigerant emissions from air-conditioning and refrigeration.
- **Scope 2 (indirect, energy):** purchased electricity, reported location-based, with on-site solar generation reported alongside.
- **Scope 3 (selected categories):** waste, paper, water, and transmission and distribution (T&D) losses from purchased electricity; the wider categories of the 2024–2025 carbon footprint assessment are added as that assessment is extended to all campuses.

Net-zero boundary: the 2050 target covers Scope 1, Scope 2 and the Scope 3 categories listed here (Scope 3 partial). Carbon credits do not count towards AASTMT's reduction pathway.

AASTMT Climate Action Plan 2025–2030: Pathway to Net Zero

Carbon Footprint Report 2024/2025: a wider Scope 3 assessment

Financial Year 2024–2025 · GHG Protocol and ISO 14064-1

A committee coordinated by the AASTMT Research and Innovation Center, under the direction of the President, measured the carbon footprint of the Abu Qir, Misr El-Gedida, Smart Village and South Valley campuses. Besides Scope 1 and Scope 2, it covers Scope 3 purchased goods and services, capital goods, water and wastewater, fertilisers, staff and student commuting, waste, business travel and leased assets.

Scope 2 in this inventory includes purchased electricity and, at the Smart Village campus, outsourced cooling (chilled water), which the report gives as 71% of that campus's Scope 2; the report attributes Smart Village's Scope 2 share to this reliance on outsourced cooling. For its net-zero target, the AASTMT Climate Action Plan 2025–2030 defines Scope 2 as purchased electricity. The report recommends campus-specific solar PV feasibility assessments, a green commuting programme with electric or hybrid shuttle buses for staff and students, and sustainable food and waste management. Emissions by campus and scope are shown in the table below.

AASTMT Carbon Footprint Report 2024/2025

Carbon footprint 2024–2025: Abu Qir, Misr El-Gedida, Smart Village and South Valley campuses (GHG Protocol and ISO 14064-1, with a wider Scope 3)

Campus	Scope 1 (t CO_2e)	Scope 2 (t CO_2e)	Scope 3 (t CO_2e)	Total (t CO_2e)
Abu Qir	2,470	4,361	10,767	17,598
Misr El-Gedida	177	1,391	8,859	10,427
Smart Village	88.9	4,380	3,695	8,164
South Valley	119.2	307.8	1,637	2,064
Total, four campuses	2,855	10,440	24,958	38,253

Next steps towards net zero

Interim targets: −45% by 2030 and −50% by 2040 against 2019; net zero by 2050

The AASTMT Climate Action Plan 2025–2030 sets the actions, responsibilities and timelines for the next steps: expanding on-site solar towards 40% renewable electricity by 2040, continued

efficiency and refrigerant management, at least 70% waste diversion by 2030, and adding further Scope 3 categories such as commuting, business travel and purchased goods.

AASTMT Climate Action Plan 2025–2030: Pathway to Net Zero