

Greenhouse Gases (GHG) Emissions

ADVANCING DATA INTEGRITY AND CLIMATE ACCOUNTABILITY

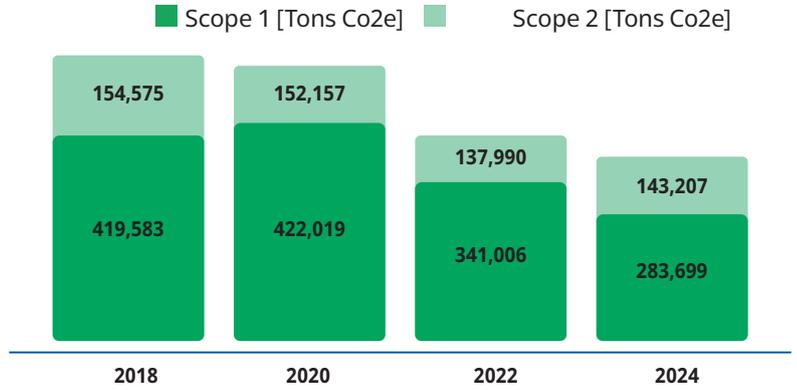
Tower Semiconductor continues to enhance its environmental management and reporting practices as part of its long-term ESG strategy. Building on the achievements presented in its previous greenhouse gas (GHG) publications, the company has made tangible progress in data quality, verification, and emissions coverage. These actions reinforce Tower's commitment to accurate disclosure, operational efficiency, and the pursuit of sustainable manufacturing across its global sites.

REDUCTION OF SCOPE 1 AND SCOPE 2 EMISSIONS

Tower Semiconductor has continued to achieve measurable reductions in its combined Scope 1 and Scope 2 greenhouse gas emissions across its corporate operations. Compared with the 2022 baseline year, total emissions decreased in 2024 by approximately 11%. This progress is consistent with the company's earlier commitment to reduce absolute Scope 1 and 2 emissions by 15% by year 2030.

This reduction stems from advances in process-gas abatement, facility energy optimization, and renewable energy integration. Tower's progress demonstrates disciplined implementation of its decarbonization roadmap and alignment with its medium-term climate objectives.

Tower's emissions (Scope 1 & 2)
[Tons CO₂e]

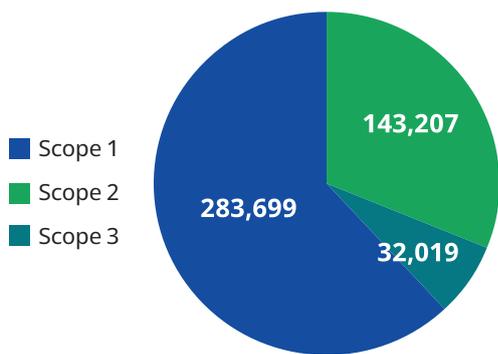


EXPANDING SCOPE 3 COVERAGE

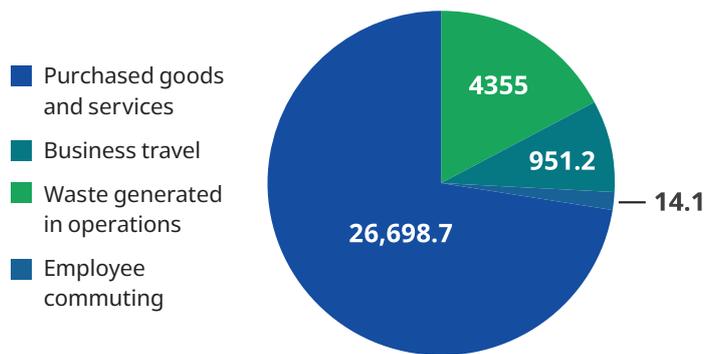
Tower Semiconductor has achieved a key environmental reporting milestone with the completion of its first Scope 3 greenhouse-gas emissions assessment. Completing the first Scope 3 assessment marks a critical step toward a comprehensive GHG inventory, providing deeper visibility into value-chain emissions. This achievement fulfills one of the company's declared goals from previous ESG reports, in which Tower committed to expand its GHG accounting boundary to include value-chain emissions.

The 2025 assessment covered four categories – Purchased Goods and Services, Business Travel, Employee Commuting, and Waste Generated in Operations – and was conducted in alignment with the GHG Protocol. This milestone enhances Tower's visibility into indirect emissions and strengthens the completeness and transparency of its overall GHG inventory.

Tower's 2024 Emissions per Scope
[Tons Co2e]



Tower's 2024 Scope 3
[Tons CO₂e]



INDEPENDENT VERIFICATION – ISO 14064-3

Tower Semiconductor achieved another key environmental reporting objective with the completion of third-party limited assurance of its corporate Scope 1 and Scope 2 greenhouse-gas (GHG) inventory of CY 2024. This accomplishment fulfills a goal outlined in previous ESG reports, in which Tower committed to pursue external verification to strengthen data credibility and transparency.

The assurance, performed by GoodVision, an accredited independent firm, was conducted in accordance with ISO 14064-3, confirming that Tower's data collection, calculation methods, and organizational boundaries meet recognized international standards. This verification reinforces Tower's commitment to accurate, verifiable disclosure, aligning the company with leading frameworks such as CSRD and SBTi.

DRIVING CONTINUOUS IMPROVEMENT

Tower Semiconductor's 2025 GHG Progress builds upon years of consistent effort to improve data integrity, expand boundaries, and reduce environmental impact. Looking ahead, the company will continue to strengthen verification and assurance processes, broaden Scope 3 coverage, and advance technologies and practices that lower process-gas and energy-related emissions. These initiatives demonstrate Tower's long-term dedication to environmental performance and to meeting stakeholder expectations for credible, science-based climate action.