

# GREENHOUSE GAS EMISSIONS

Complete Baseline Report

SEPTEMBER 2025

## WHAT WE'VE ACCOMPLISHED

We have completed measurement of all three scopes of our greenhouse gas emissions for fiscal year 2023, establishing our comprehensive baseline for measuring future progress and targeting reduction initiatives.

### KEY RESOURCES & METHODOLOGY:

#### SCOPE 1 EMISSIONS

Direct emissions from owned or controlled sources, such as fuel combustion or the fugitive emissions of refrigerants.

#### SCOPE 2 EMISSIONS

Indirect emissions from the generation of purchased electricity, heating, and cooling consumed by the measuring entity.

#### SCOPE 3 EMISSIONS

Indirect emissions that occur in our value chain, including both upstream and downstream emissions. For ASME, this will include travel and all aspects of event production and logistics.

**ASME** has achieved a significant milestone in our climate action journey, becoming the first engineering association in North America to complete comprehensive measurement of all three scopes of greenhouse gas emissions.

Through our rigorous accounting process for fiscal year 2023, we have established our complete emissions baseline, identified key hotspots, and developed a clear path forward for decarbonization.

## HOW IT WAS ACCOMPLISHED

Guided by our volunteer-driven Committee on Sustainability (CoS) and supported by our staff-led Sustainability Steering Committee (SSC), our emissions were rigorously measured and analyzed by a highly credible third-party sustainability consultancy, OnePointFive.

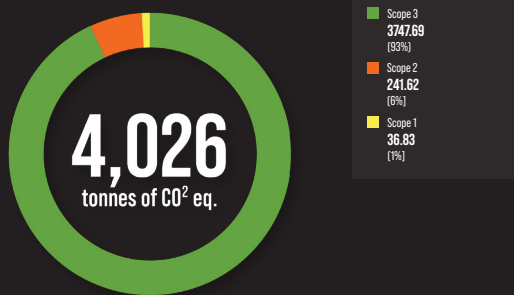
Data was collected from five office locations in the U.S. and China, where ASME has operational control of our emissions.



*ASME follows a tailored data collection framework aligned to the GHG Protocol Corporate Accounting and Reporting Standard which provides requirements and guidance for companies and other organizations preparing a GHG emissions inventory. Further details on ASME's GHG accounting are available on [ASME.org](https://www.asme.org).*

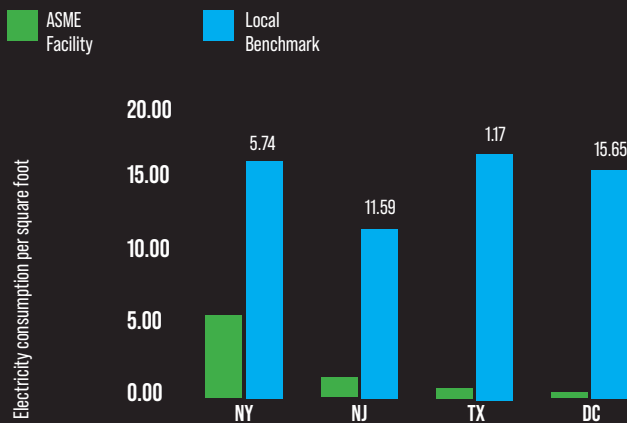
# KEY INSIGHTS

Total Emissions for FY23: 4,026.14 (tCO<sub>2</sub>e)



ASME's complete FY2023 emissions baseline totals 4,026.14 tonnes CO<sub>2</sub>e across all three scopes. With Scope 3 accounting for 93% of our footprint, this comprehensive measurement demonstrates why looking beyond direct operations is essential for meaningful climate action.

## Electricity Consumption (kWh/sq. ft.) vs. Local Benchmarks:



## Key Efficiency Findings:

- ASME's purchased electricity (Scope 2) is significantly lower than similar commercial spaces
- All U.S. facilities performing better than market benchmarks
- Single source of Scope 1 emissions: refrigerant leakage from NYC HVAC systems (40 tonnes CO<sub>2</sub> eq.)



**5.74** kWh/sq. ft.  
(New York City)

## Efficient Operations

ASME's office operations are already relatively efficient. Our largest source of emissions, electricity consumption, falls well below the local average (16.18 kWh/sq. ft. in NYC) for other commercial spaces in our markets.

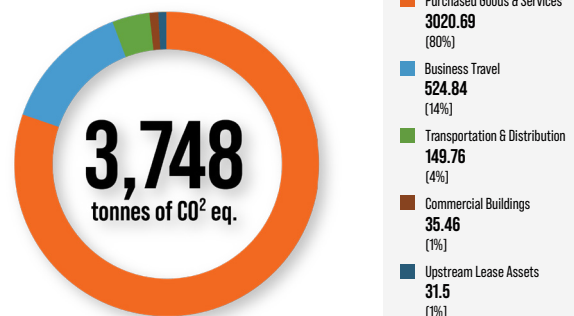


**40** metric tonnes CO<sub>2</sub> eq.

## Refrigeration: Scope 1 Opportunity

ASME's single source of Scope 1 emissions, i.e. direct emissions from our controlled facilities, are fugitive emissions of refrigerant gasses released over time from air-conditioning units (NYC).

## Scope 3 Emissions Breakdown (3,747.69 tCO<sub>2</sub>e)



Scope 3 represents 93% of ASME's total emissions at 3,747.69 tonnes CO<sub>2</sub>e. Purchased goods and services dominate at 80.6%, followed by business travel (14%), transportation/distribution (4%), and other categories (1.4%). This breakdown reveals clear priorities for our reduction strategy.

## Q4 2025 STRATEGY DEVELOPMENT

- Propose emissions management plan
- Establish science-aligned reduction targets
- Identify and implement quick wins

## 2026 IMPLEMENTATION PHASE

- Launch targeted reduction initiatives across all scopes
- Establish annual measurement and reporting cycle
- Deploy member engagement programs
- Begin supplier engagement on sustainability requirements

## 2026+ CONTINUOUS IMPROVEMENT

- Annual emissions measurement and reporting
- Progress tracking against targets
- Target refinement based on performance
- Industry collaboration and knowledge sharing