CTOS Scope 3 GHG Emissions Jan-Jun 2025 Calculation Results

1. Employee Commuting

Definition: Emissions from employees commuting between home and office.

Methodology & Assumptions

- Data are collected from survey conducted in August 2025.
- Conversion factors are applied by mode of transportation and are obtained from DEFRA 2025.
- Annual working weeks: 24 (up to 30 June 2025, adjusted for prorate 10 days annual leave, 2 medical leave, and 9 Malaysian public holidays).

Results

Transportation Mode	Distance Travelled (KM)	GHG Emissions (tCO2e)
Bus	6,555.00	1.25
Car	752,132.20	184.83
Electric Car	14,375.00	1.00
KTM	29,274.40	1.53
LRT	177,224.20	7.46
Motorcycle	173,063.50	28.96
MRT	49,696.10	2.09
Grand Total	**1,202,320.40**	227.13

2. Business Travel

Definition: Emissions from employees travelling for work-related purposes

Methodology & Assumptions

- Data are collected from claims record provided by HR.
- Conversion factors applied by mode of transport and obtained from DEFRA 2025.
- Calculation for flight are made via ICAO Carbon Emissions Calculator (ICEC).
- For a more detailed assumptions, please refer to the excel sheet "O - CTOS Scope 3 Business Travel".

Results

Transportation Mode	GHG Emissions (tCO2e)
Car	12.84
Bus	0.15
Rail	0.03
Flight	31.88
GHG Emission Subtotal	44.90

3. Waste

Definition: Office-generated waste disposed of via building management.

Methodology & Assumptions

- Data are obtained from CTOS Admin Manager (S. Loga Rajan).
- Approximated daily waste generated by floor:
  - 9th floor: 1.75 kg
  - 17th floor: 1.50 kg
  - 18th floor: 1.25 kg
- Annualised (260 workdays/year).
- All waste sent to landfill (no segregation or recycling data available).
- Conversion factors are obtained from DEFRA 2025.

Results

Total Waste Generated

540

kilograms

GHG Emissions

281.09

tCO2e

CTOS Scope 3 GHG Emissions 2024 vs. Jan-Jun 2025 Results

GHG Scope	2024	June 2025
Employee Commuting	452.29	227.13
Business Travel	80.03	44.90
Waste Management	609.02	281.09