

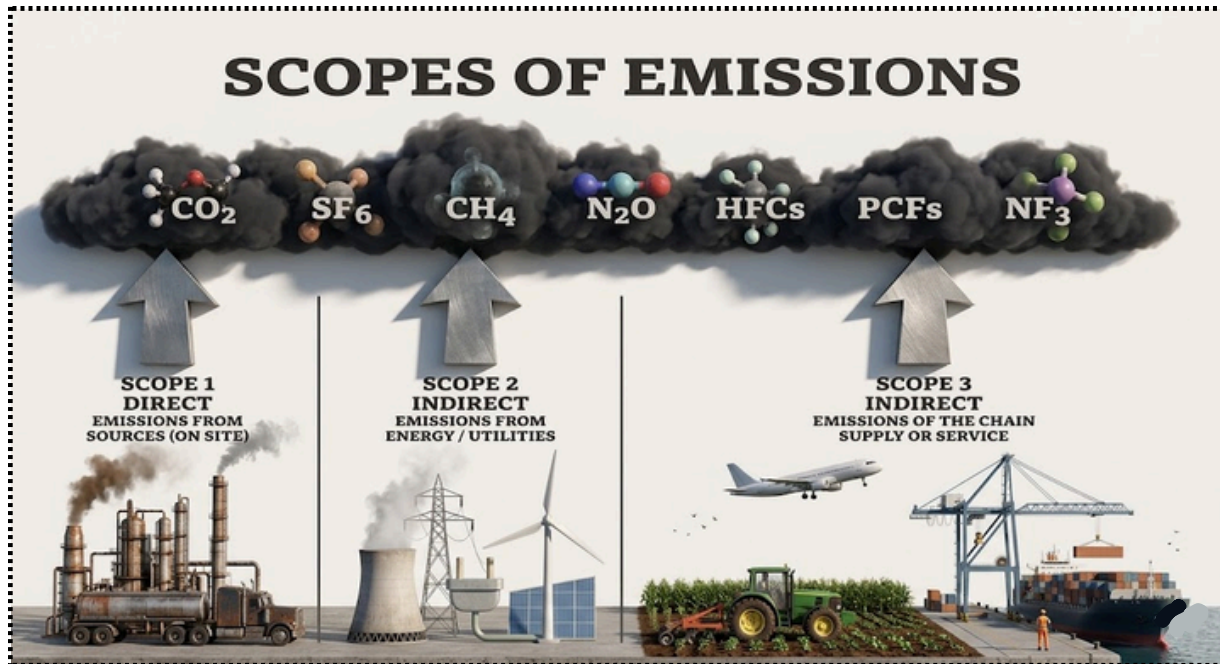
Carbon Emissions reporting



University Of Oum El Bouaghi – Larbi Ben M’Hidi



Carbon Neutrality Pathway: A Strategic Emissions Analysis for Oum El Bouaghi University



Oum El Bouaghi University is steadfastly committed to institutional transparency and environmental stewardship. By systematically measuring and disclosing our carbon footprint, we uphold a culture of accountability essential for sustainable campus development. Our reporting framework is designed to provide stakeholders with a clear understanding of our operational impact on the global climate.

I. Methodological Framework: Precision in Carbon Accounting

To ensure the highest levels of data integrity and global comparability, our reporting adheres to the GHG Protocol Corporate Standard. This internationally recognized methodology allows us to categorize emissions into three distinct operational scopes:

- **Scope 1 (Direct Emissions):** Emissions originating from sources owned or controlled by the university, such as on-site fuel combustion.
- **Scope 2 (Indirect Emissions):** Emissions associated with the generation of purchased energy, specifically electricity and utilities.
- **Scope 3 (Extended Indirect Emissions):** Value chain emissions related to institutional activities, including waste management and campus commuting.

By leveraging these standards, the university identifies critical areas for mitigation, sets data-driven reduction targets, and ensures our progress remains aligned with evolving industry benchmarks.

II. Longitudinal Performance: Tracking the Decarbonization Trend

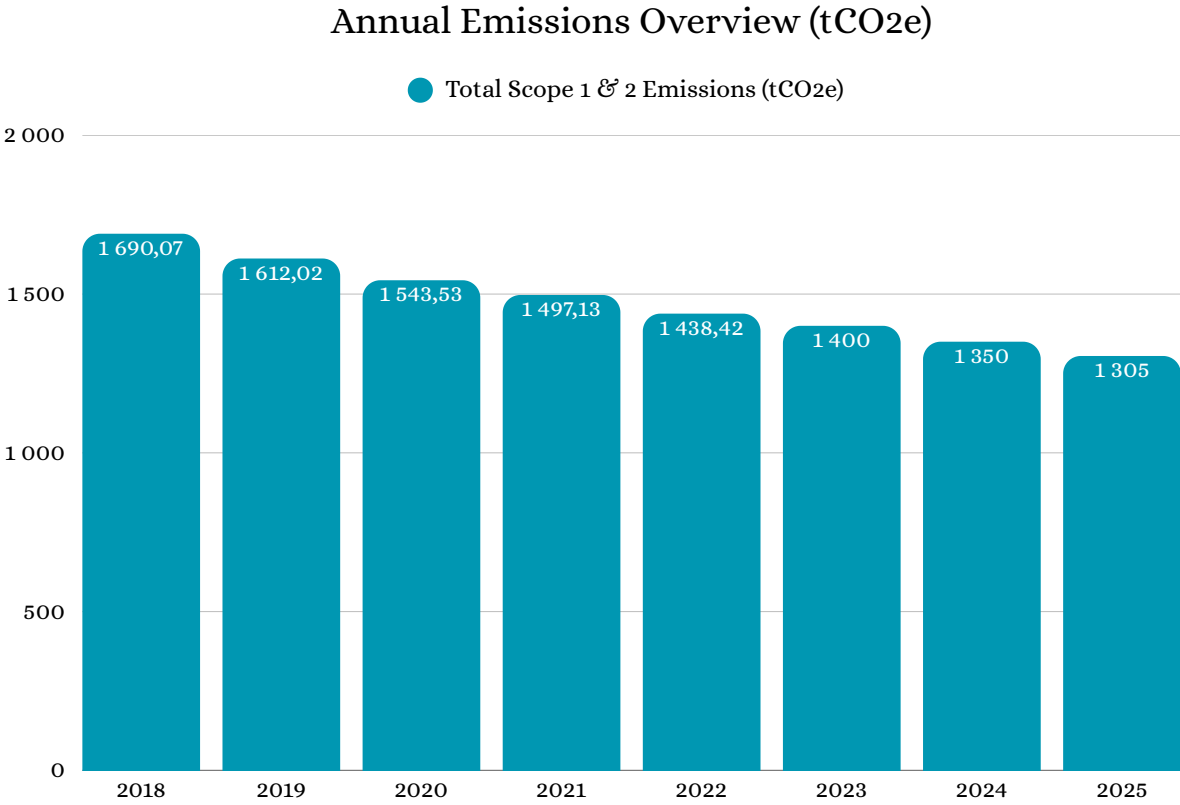
Our multi-year analysis reveals a consistent downward trajectory in combined Scope 1 and Scope 2 emissions.

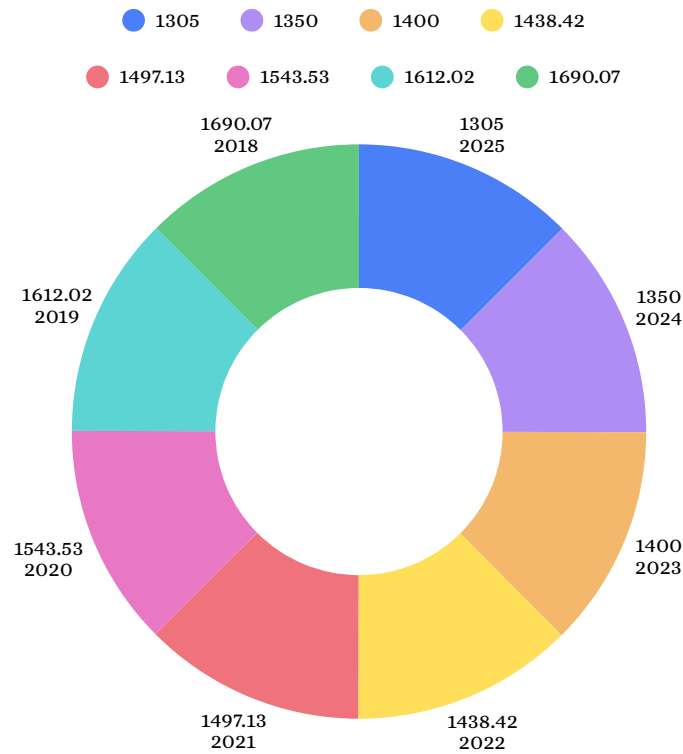
Emissions Trajectory (2018–2025)

The following data reflects our progress in reducing total (tCO₂e) over the last eight years :

Reporting Year	Total Scope 1 & 2 Emissions (tCO ₂ e)
2025	1305
2024	1350
2023	1400
2022	1438.42
2021	1497.13
2020	1543.53
2019	1612.02
2018	1690.07

Table 01 Annual Emissions Overview (tCO₂e).





Strategic Insights:

- **Aggregate Impact:** Since the 2018 baseline, the university has achieved a total reduction of 22.8%.
- **Continuous Decline:** The transition from 1690.07 tCO2e to 1305 tCO2e underscores a successful integration of energy-efficient technologies and sustainable operational practices.
- **Future Mandate:** While progress remains steady, accelerating this trend will require the adoption of large-scale, innovative sustainability initiatives to reach deeper decarbonization milestones.

III. Operational Deep-Dive: 2025 Fiscal Year Breakdown

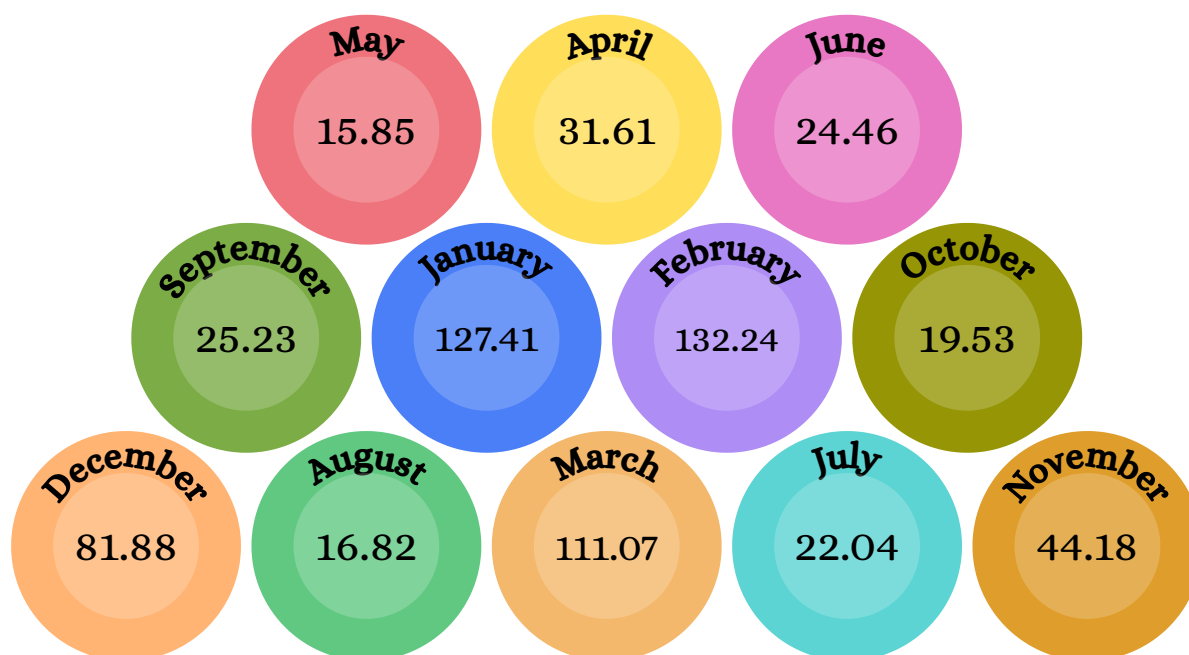
A granular analysis of the 2025 reporting cycle highlights the seasonal variability of our energy consumption.

III. Operational Deep-Dive: 2025 Fiscal Year Breakdown

A granular analysis of the 2025 reporting cycle highlights the seasonal variability of our energy consumption.

Month	CO2 Electricity (tonnes)	CO2 Gas (tonnes)	Total CO2e (tonnes)
January	15.18	31.61	127.41
February	12.95	36.44	132.24
March	12.57	23.30	111.07
April	1.89	1.29	31.61
May	0.85	0.06	15.85
June	2.23	0.00	24.46
July	1.82	0.00	22.04
August	1.05	0.00	16.82
September	2.39	0.00	25.23
October	1.42	0.00	19.53
November	3.63	2.54	44.18
December	5.70	13.44	81.88
Total	—	—	1305

Table 02. Total Scope 1 and 2 emissions in 2024 in tCO2e



IV. Commitment to Excellence

Oum El Bouaghi University remains dedicated to the principles of Continuous Improvement. We actively monitor advancements in carbon accounting—including ISO 14064-1 and IPCC methodologies—to ensure our reporting remains the gold standard for accuracy and transparency. Through these efforts, we contribute to a resilient and sustainable future for our campus and the broader community

The emissions volume for various years has been computed following recognized and relevant international standards, as detailed in the attached files:

1. <https://carbon.landleaf-tech.com/wpcontent/uploads/2022/04/ISO14064-1-2018.pdf>
2. <https://www.epa.gov/sites/default/files/202012/documents/electricityemissions.pdf>
3. https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc_wg3_ar5_annex-iii.pdf
4. https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc_wg3_ar5_annex-ii.pdf