

Uzbekistan State World Languages University (UzSWLU)

Carbon Emissions Reduction Strategy (Scope 1 & 2)

Document Title: Strategic Plan for Reducing Scope 1 & 2 Carbon Emissions
(2024–2050)

Approved by: Rector of UzSWLU

Effective Date: January 2024

Baseline Year: 2022

1. Introduction

As part of its commitment to global climate responsibility and in alignment with the UN Sustainable Development Goals (SDGs), Uzbekistan State World Languages University (UzSWLU) has developed a comprehensive strategy to reduce its Scope 1 and Scope 2 carbon dioxide equivalent (CO₂e) emissions. This initiative supports Uzbekistan's national climate goals and reflects the university's growing role in promoting environmental literacy, energy efficiency, and institutional sustainability.

The university takes a holistic approach to managing carbon emissions, focusing not only on infrastructure and energy but also on education, engagement, and institutional culture. This mirrors international best practices, such as De Montfort University's (DMU) Climate Emergency commitments, while tailoring goals to UzSWLU's specific context.

2. Baseline Emissions Overview (2022)

In 2022, UzSWLU conducted its first full greenhouse gas (GHG) emissions inventory using the GHG Protocol Corporate Standard methodology. Emission factors were derived from the United States Environmental Protection Agency (EPA) and Intergovernmental Panel on Climate Change (IPCC) guidelines.

- Scope 1 emissions: 80.87 tCO₂e (gasoline, natural gas, refrigerants, on-site waste disposal)
- Scope 2 emissions: 574.16 tCO₂e (electricity consumption)
- Total Scope 1 & 2: 655.03 tCO₂e

3. Strategic Emission Reduction Targets

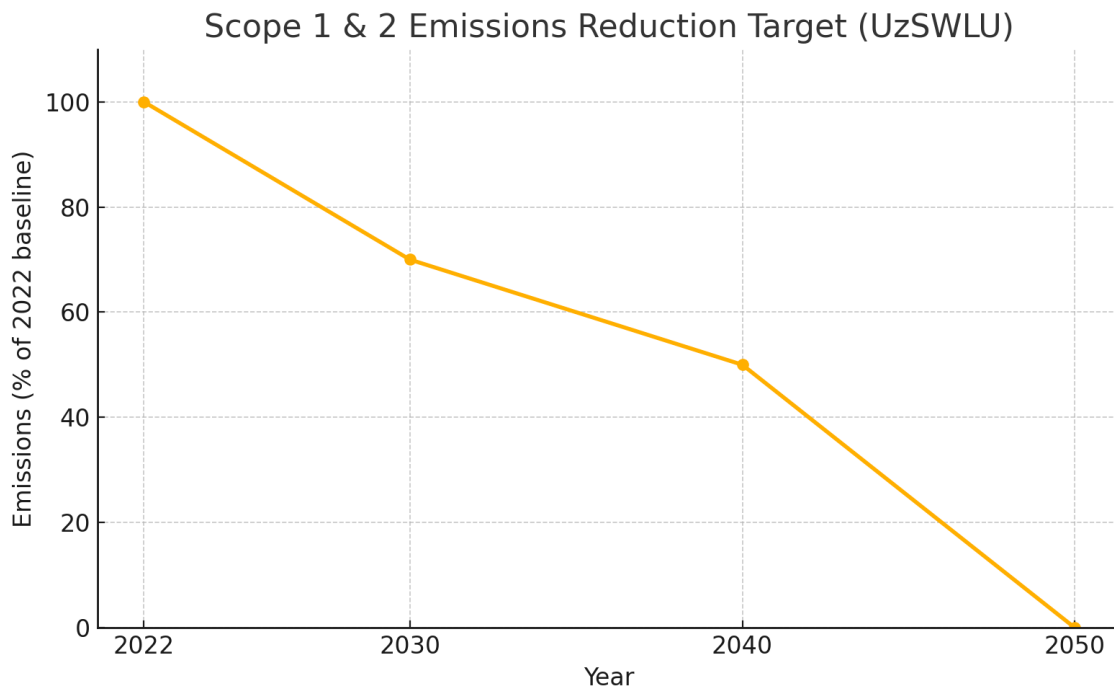
Target Year	Scope	Emission Reduction Goal	Relative to Baseline
2030	1 & 2	30% reduction	Compared to 2022
2040	1 & 2	50% reduction	Compared to 2022
2050	1 & 2	Net-zero emissions	Compared to 2022

The university is also developing Scope 3 reduction targets, inspired by institutions such as DMU, which aim for net-zero Scope 3 emissions by 2045.

4. Implementation Plan

To achieve these goals, the following key actions will be implemented across the university:

Visual: Scope 1 & 2 Emission Reduction Timeline



6. Projected Impact and Benefits

By implementing this strategy, UzSWLU aims to:

- Reduce annual Scope 1 & 2 emissions from 655.03 tCO₂e to under 460 tCO₂e by 2030
- Save approximately 1.2 million kWh of electricity annually through retrofits
- Cut natural gas consumption by 25% by 2030
- Train 100% of staff and 80% of students in sustainability and climate literacy by 2027
- Increase recycling and waste diversion to over 70% of total waste by 2030

- Expand solar energy generation capacity to offset institutional electricity consumption and avoid carbon emissions

7. Alignment with National and Global Goals

This strategy aligns with:

- Uzbekistan's Intended Nationally Determined Contributions (INDCs) under the Paris Agreement
- The UN SDG 13 (Climate Action), SDG 7 (Affordable and Clean Energy), and SDG 4 (Quality Education)
- UI GreenMetric and QS Sustainability Rankings frameworks
- Best practices from international universities addressing the Climate Emergency