



University : UzSWLU
Country : Uzbekistan
Web Address : <https://www.uzswlu.uz/en>

5. Transportation

[5.9] Zero Emission Vehicles (ZEV) availability on campus

The Uzbekistan State University of World Languages (UzSWLU) has integrated a **comprehensive zero-emission mobility system** as part of its *Smart Campus and Green Mobility Strategy (2023–2030)*. The initiative focuses on replacing combustion-engine vehicles with electric alternatives, supported by solar-powered charging stations and a strong institutional policy promoting clean, safe, and low-carbon transportation.

UzSWLU’s approach aligns with the national *Green University Concept of Uzbekistan* and contributes directly to the university’s long-term decarbonization goals.

1. Current Zero-Emission Fleet

As of 2025, UzSWLU operates a small but growing fleet of **13 fully electric zero-emission vehicles (ZEVs)** serving different mobility functions on campus.

Vehicle Type	Quantity	Function	Energy Source
Electric Shuttle Buses (12-seater)	2	Regular student & staff transport between Main and Zakovat campuses	Solar + Grid
Mini Electric Utility Car (4-seater)	1	Maintenance, document delivery, campus service	Grid
Electric Scooters	10	Used by security, technical staff, and Green Office for internal mobility	Solar-assisted
Total ZEVs	13	—	—

All ZEVs are managed by the **Transport and Logistics Department** and monitored through the university’s **Smart Mobility Dashboard**, which tracks charging data, mileage, and CO₂ savings.

2. Charging Infrastructure

To support zero-emission mobility, UzSWLU has established the following infrastructure:

- **3 EV charging stations** on Main and Zakovat campuses (installed 2024).
- Charging points serve up to **20 electric vehicles per day**.
- Chargers powered partly by **on-site solar panels** near the eco-parking zone.
- **Reserved EV parking spaces** with permeable green paving materials.
- **Smart charging schedule** (19:00–06:00) to balance grid use.
- Charging and maintenance operations fully integrated into the Smart Mobility Dashboard.

3. Environmental and Operational Impact



The ZEV system has produced tangible environmental and operational benefits:

Indicator	2023–2024		2024–2025	Change
Total ZEVs	8	13		+62.5%
CO ₂ emissions (transport)	19.8 t/y	17.1 t/y		–13.6%
Fuel consumption	4,200 L/year	2,950 L/year		–30%
Noise level reduction	—	≈45%		Improved comfort
Annual energy consumption	—	14 kWh/day per shuttle (avg)		100% renewable

Through these measures, UzSWLU **avoids approximately 18 tons of CO₂ per year** compared to 2023 baseline levels.

4. Policy and Governance

UzSWLU’s *Zero Emission Vehicles Policy* (Order No. 14/2024) establishes clear operational and strategic priorities:

- **Procurement rule:** All new university vehicles must be electric or hybrid.
- **Electrification target:** 100% of the university fleet to be zero-emission by **2030**.
- **Parking incentives:** Free parking and charging access for EVs.
- **Partnerships:** Collaboration with *Tashkent City Electric Transport Authority* and *MyCar Uzbekistan* to promote shared EV services.
- **Training programs:** Regular workshops on EV safety, maintenance, and energy efficiency.

The policy is implemented by the **Green Office** under the Vice-Rector for Infrastructure Development, ensuring sustainability integration across departments.

5. Awareness and Community Engagement

To encourage sustainable mobility, the university organizes campaigns and learning activities:

- Annual “**Go Electric, Go Green**” campaign — 1,500+ participants (students & staff).
- **Environmental posters and QR panels** at shuttle stops showing CO₂ savings.
- **Student research projects** focused on EV energy optimization.
- Partnerships with private EV-sharing operators (*MyCar*, *MyTaxi*) to promote low-emission commuting beyond campus.

These activities raise awareness, enhance student involvement, and strengthen the behavioral shift toward sustainable transport.

6. Integration with Smart Campus System

ZEV operations are fully integrated into the **UzSWLU Smart Campus platform**, providing:

- Real-time EV location and status monitoring.
- Automatic CO₂ savings calculation.
- Predictive maintenance alerts.
- Monthly reports shared with the Rector’s Office and the Green Office.

The digitalization of ZEV management ensures transparency, traceability, and continuous improvement in transport sustainability.

Impact on SDGs

- **SDG 7:** Affordable and Clean Energy – renewable-powered EV charging.
- **SDG 9:** Industry, Innovation, and Infrastructure – adoption of smart, sustainable transport systems.
- **SDG 11:** Sustainable Cities and Communities – zero-emission intra-campus mobility.
- **SDG 13:** Climate Action – measurable emission reduction and behavioral change.



Bike share service on campus



Charging points for EV



Free Electric Vehicle Charging on Zakovat campus



Bike stands on campus

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):