Navoi State University of Mining and Technologies



NAVOI STATE UNIVERSITY OF MINING AND TECHNOLOGIES – NET ZERO BY 2050

1. Objective

Navoi State University of Mining and Technologies (NSUMT) aims to achieve net zero carbon emissions by 2050. This strategy summarizes our roadmap for moving toward sustainability with long-term planning.

2. Applicability

This strategy encompasses all university operations, infrastructure, faculty, and students, emphasizing a united approach in combating climate change and fostering a greener future.

3. Core Actions and Strategies

3.1 Shift to Renewable Energy

NSMTU is committed to adopting renewable energy sources to significantly cut down carbon emissions. Key measures include:

- Solar Power: Expanding the use of solar panels across campus facilities.

- Wind Power: Integrating wind energy into the campus power system.

- Energy-efficient Systems: Utilizing energy-saving appliances and technologies across all university buildings.

3.2 Enhancing Energy Efficiency

The university prioritizes reducing overall energy consumption through:

- Installation of energy-efficient systems in all buildings.

- Deployment of smart building solutions to monitor and optimize energy usage.

- Ensuring all new constructions meet advanced energy efficiency standards.

3.3 Promoting Sustainability in Education

NSMTU embeds sustainability into its educational model by:

- Including sustainability-related courses across various academic programs.

- Offering training sessions and workshops to promote sustainable behaviors among students and staff.

3.4 Sustainable Waste Management

The university has implemented a strong waste management system, which focuses on reducing its environmental impact including:

- Recycling Programs: Enhancing recycling processes for organic and inorganic waste.

- Waste Reduction: Promoting practices that minimize waste across all campus operations.

3.5 Eco-friendly Campus Development

NSMTU is dedicated to transforming its campus into a more eco-friendly environment by:

- Increasing green coverage by planting more trees and enhancing garden areas.

- Designing outdoor spaces that promote environmental sustainability.

3.6 Conversion to Smart Buildings

The university plans to transform existing structures and ensure all new buildings meet smart, energy-efficient standards. This transformation will feature:

- Automated systems for managing lighting, temperature, and ventilation.

- Real-time data collection for tracking and improving energy use.

4. Monitoring and Accountability

The progress towards net zero carbon emissions will be rigorously tracked and reported. NSMTU will monitor CO2 emissions and energy consumption, ensuring consistent progress towards its 2050 goals.

5. Roles and Participation

Reaching the net zero target is a responsibility for everyone at the university. Certain departments at the university will be assigned to manage and ensure the effectiveness of the proposed strategies.

6. Evaluation

This strategy will undergo annual reviews to evaluate the progress and make necessary adjustments, ensuring that NSMTU stays aligned with its net zero carbon goals for 2050.