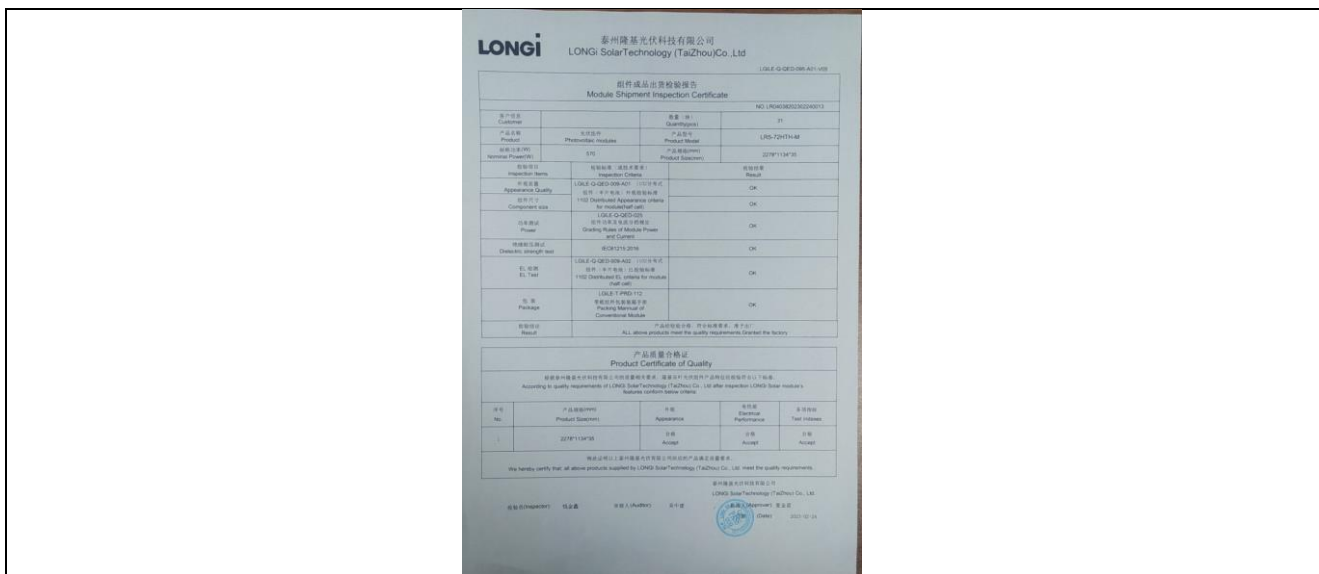




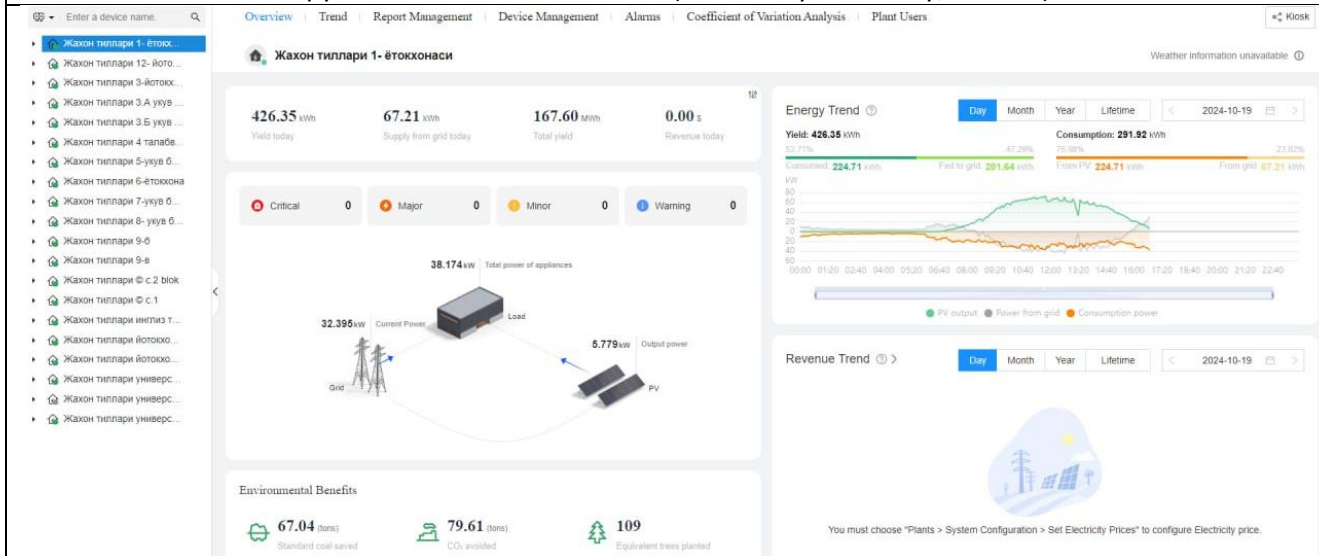
University : UzSWLU  
 Country : Uzbekistan  
 Web Address: <https://www.uzswlu.uz/en#>

[2] Energy and Climate Change (EC)

[2.9] Elements of Green Building Implementation as Reflected in All Construction and Renovation Policies



Copy of the certification of solar (Dublin City University, Ireland)



Example of Green Building Implementation - Overview Green Technologies implemented at the Environmental Main Campus (UzSWLU, Uzbekistan)

Description:



The Uzbekistan State World Languages University (UzSWLU) is committed to sustainable development and energy efficiency in its construction and renovation projects, ensuring that the campus operates in an environmentally responsible manner. While not currently holding an ISO 50001 certification, UzSWLU is actively working to integrate elements of energy-efficient design and green building practices into its infrastructure.

**Environmental and Energy Efficiency Initiatives at UzSWLU:  
Energy Efficiency in Buildings:**

All buildings on the UzSWLU campus are designed and renovated in alignment with Uzbekistan's national energy efficiency standards. The university is striving to exceed these requirements through the adoption of energy-saving technologies and sustainable practices.

**Green Building Elements:**

**Geothermal Heat Exchanger:** The university utilizes geothermal technology to pre-heat incoming air, improving the energy efficiency of its heating systems.

**Solar Energy Systems:** Solar panels and solar heat transmitters are installed to harness renewable solar energy, providing power for heating and reducing reliance on non-renewable energy sources.

**Energy-Efficient Heating:** The heating system is enhanced by a solar thermal collector and compression heat pump, optimizing the use of solar energy to meet heating demands.

**District Heating System:**

A district heating system is employed at the university, which leverages energy-efficient heating methods to provide warmth across multiple buildings. Future upgrades aim to incorporate more renewable sources, such as biomass or solar energy.

**Rainwater Harvesting:**

A rainwater collection system is implemented with a pressure regulator, which allows the university to use collected rainwater for non-potable purposes like landscape irrigation and sanitary needs, conserving potable water resources.

**Ventilation and Cooling:**

**High-Efficiency Ventilation:** The university buildings feature ventilation systems equipped with high-performance heat recovery units, minimizing heat loss and improving overall energy efficiency.

**Natural Cooling Techniques:** Passive cooling designs and improved insulation materials reduce the need for artificial cooling, enhancing the comfort of the learning environment while saving energy.

**Commitment to Sustainable Development:**

UzSWLU continuously explores ways to reduce its carbon footprint through sustainable construction, green practices, and raising awareness among its community about energy conservation and environmental stewardship.

By integrating these elements, the Uzbekistan State World Languages University aims to create a greener campus, aligning with modern standards of sustainability and contributing to the nation's environmental goals.

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