

## **SOLAR POWER PLANT**

Currently, the use of renewable energy sources is becoming an important part of the strategy for the sustainable development of higher education institutions. In this direction, the Korkyt Ata Kyzylorda University also contributes to solving regional environmental and energy problems. A hybrid solar-wind power plant with a capacity of 18 kW has been launched at the University. This station is located next to academic building No. 5 and allows not only to modernize the university's educational and laboratory infrastructure, but also for students and young scientists to gain practical experience in the field of renewable energy sources and conduct research projects. The plant's structure includes photovoltaic panels, a wind generator, an inverter system, and battery packs. This equipment allows you to generate electricity during the daytime and windy season.

The main objectives of the project are:

- demonstration of efficient use of renewable energy sources;
- creation of a laboratory and practical base for students in energy, ecology and technical fields;
- the development of a culture of energy conservation and its promotion among society.

This university initiative has become one of the major projects aimed at developing alternative energy sources in the region. In addition, this station, along with scientific research, plays an important role in the field of education and improving environmental literacy.





