

WINDTECH



wind farms

Aktobe, 2022

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OUR MISSION

Build a successful company with the benefit for society and the environment.

WindTech





GENERAL INFORMATION

Manufacture of wind
power plants.

Wind power plants
with power from 5
kW/h up to 1 gW/h.

Aktobe, 173/1
Sankibay batyr
avenue, office 601.



**When blow the winds of change, some
build walls, others wind farms.**

Wind power in Kazakhstan

At present, in Kazakhstan, when it comes to the development of renewable energy sources, much attention is paid to the wind potential of the country.

Wind power is one of the fastest growing commercial forms of renewable energy.

Interest in the development of wind energy is due to the following factors:

- Renewable energy resource independent of fuel prices;
- No emissions of harmful substances and greenhouse gases;
- Developed global market for wind turbines;
- Competitive cost of electricity, independent of the cost of fuel;
- Short terms of construction of power plants;



CRITICAL TARGETS

- PROVIDING CONSUMERS WITH INEXPENSIVE ELECTRICITY GENERATED FROM RENEWABLE ENERGY SOURCES;
- SOLVING ENVIRONMENTAL PROBLEMS;
- LIGHTING AND DEVELOPMENT OF ROADS;
- PROVIDING COMMUNICATION ROADS OF REPUBLICAN AND REGIONAL SIGNIFICANCE;
- CREATION OF JOBS;
- ASSISTANCE TO THE STATE IN ACHIEVING THE PARIS AGREEMENT ON A ZERO CARBON FOOTPRINT. NETZERO;

MAIN FEATURES OF "WINDTECH WIND FARMS" PRODUCT:

- Does not depend on wind direction;
- Generation of electricity at low speeds of air masses;
- Wide model range;
- Simplicity and ease of installation;
- Convenience of service;
- Stable work;
- Work offline, in the absence of wind;
- Durability;
- Remote monitoring;
- Possibility of construction of industrial designs by combining modules. The number of modules can be any, make up rows and levels.

THAN OUR TECHNOLOGY DIFFERS FROM OTHERS?

INNOVATION, QUALITY AND INNOVATIVE QUALITY

- The Windtech wind turbines are manufactured in Aktobe;
- There is a demonstration and working sample;
- In this wind farm, unique solutions have been adopted and developed, such as the shape of the blades, modularity, ease of maintenance, mobility, etc.;



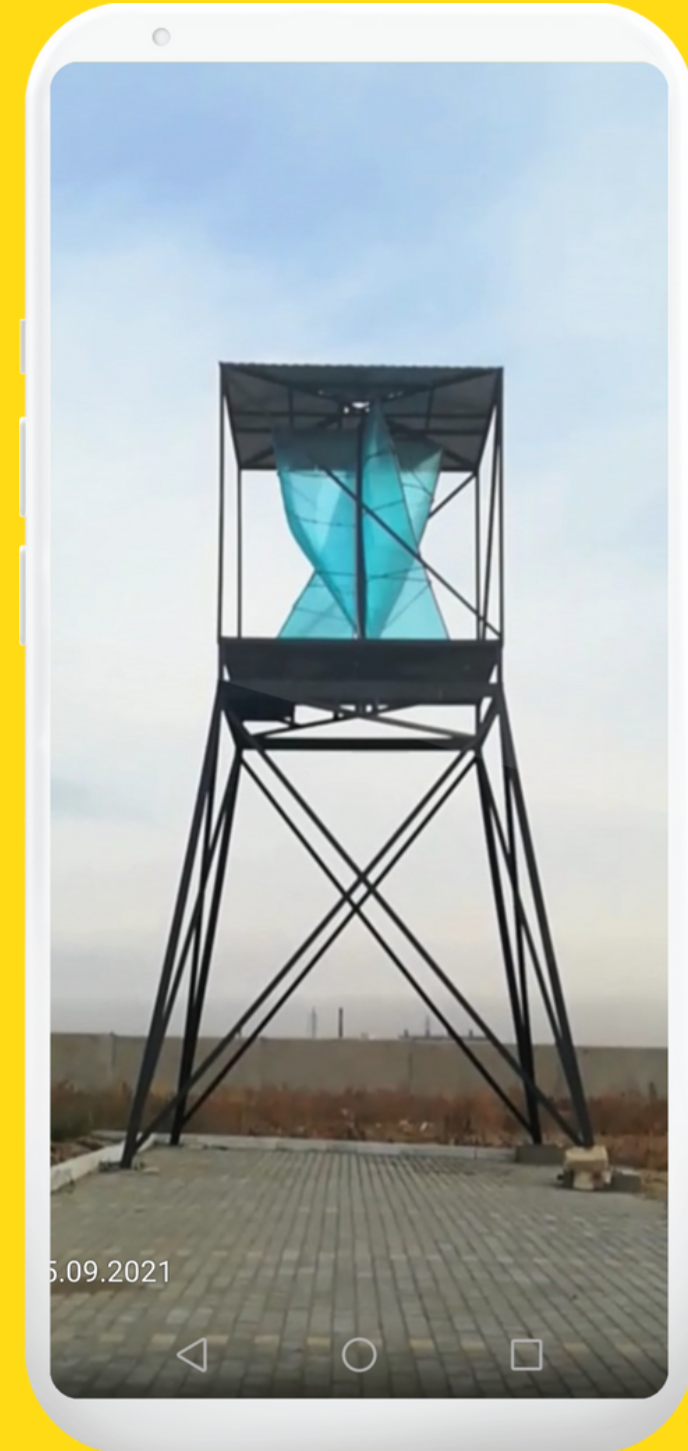
BLADE OPTIONS



**reinforced blades,
for regions with
high wind speed**



**standard blades,
for regions with
average wind speed**



**lightweight blades,
for regions with
low wind speed**

comparison
with
others
analogues

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Наименование показателей		Ветряная станция Windtech	Ротор Савониуса	Лопастные ветростанции
Номинальная мощность генератора		25 кВт/ч.	5 кВт/ч	1000 кВт/ч
Максимальная мощность генератора		30 кВт/ч	7 кВт/ч	1000 кВт/ч
Аккумулятор		230 А/ч	200 А/ч	230 А/ч
Рабочее напряжение		380V	220V	380V
Срок службы		30 + лет	10 лет	20+ лет
Степень пыле-влаго-защиты		IP54	0	0
Рабочий температурный режим		-35С - +60С	-15С - +40С	-15С - +40С
Номинальная скорость ветра		5-7 м/с	5-7 м/с	15-20
Минимальная скорость ветра		1-2 м/с	1-2 м/с	10
Устойчивость к разнонаправленному ветру	к	Да	Да	Нет
Защита		Защита от осадков, Защита от перенапряжения на входе, защита от пониженного напряжения аккумулятора, защита от обратного подключения аккумулятора, защита от перегрузки на выходе, защита от короткого замыкания на выходе, защита от перегрева.	Защиты нет	Защита от перенапряжения на входе, защита от пониженного напряжения аккумулятора
Стоимость 1 кВт		1300\$	2000\$	2500\$
Антивандальная система		Есть	Нет	Нет
КПД и КИЭВ		0,9	0,35	0,4
Объединение модулей с целью увеличения мощности		Да	Нет	нет

What is 5 kWh

- 10 BULBS OF 100 W
- 1 DEEP PUMP
- 1 KETTLE
- 1 FRIDGE
- 1 TV



What is 10 kWh

- 10 BULBS OF 100 W
- 1 DEEP PUMP
- 1 KETTLE
- 1 FRIDGE
- 1 TV
- 1 HEATING BOILER
- 1 MICROWAVE

CONTACT US

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