

100MW WPP Wind Power Plant + GOV PPA





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Wind power is swiftly becoming a popular source of clean and renewable energy around the world, and Kazakhstan is no exception.

This 100MW Ready to Build WPP Wind Power Plant is located in a prime wind energy region in Kazakhstan, where the strong and consistent winds make it an ideal location for harnessing wind power. The plan consists of a series of wind turbines that are capable of generating 100 megawatts of electricity, enough to power thousands of homes and businesses in the surrounding area.

One of the key factors that has contributed to the success of the 100MW WPP Wind Power Plant is the government Power Purchase Agreement (PPA) that has been put in place. A PPA is a contract between a power producer and a utility company or government entity that outlines the terms of the sale of electricity generated by the plant. In the case of the 100MW WPP Wind Power Plant, the government of Kazakhstan has signed a PPA that guarantees a fixed price for the electricity produced by the plant, providing the necessary financial security for investors and allowing the plant to operate profitably.

The government PPA is a crucial component of the renewable energy industry in Kazakhstan, as it provides a stable and predictable source of revenue for wind power plants like the 100MW WPP. This has helped to attract investment in the development of wind power projects, leading to the rapid growth of the industry in the country.

In addition to the financial benefits, the 100MW WPP Wind Power Plant also provides numerous environmental advantages. By generating electricity from wind power, the plant helps to reduce greenhouse gas emissions and combat climate change. This is especially important in Kazakhstan, where the government has set ambitious targets for reducing carbon emissions and increasing the share of renewable energy in the country's energy mix.

Furthermore, the 100MW WPP Wind Power Plant also has a positive impact on the local economy. The construction and operation of the plant create jobs and stimulate economic growth in the surrounding area.

Status

- Ready to Build

Keypoints

- The 100MW wind farm construction project in Zhezkazgan was won at the auction of the Ministry of Energy of the Republic of Kazakhstan for a renewable energy sources (RES) project in Kazakhstan in the fall of 2022.
- The Contract (PPA) was concluded for the purchase of electrical energy by the settlement and financial center from energy producing organization using renewable energy sources at an auction price of 12.39 tenge / kWh (excluding VAT), valid for 20 years from the start of generation.
- The annual indexation of the auction price is carried out in the manner prescribed by the Rules for determining fixed tariffs and marginal auction prices

PPA is provided by RFC LLP "Settlement and Financial Center for Support of Renewable Energy Sources" of the Ministry of Energy of the Republic of Kazakhstan. It carries out centralized purchase and sale of electric energy produced by facilities for the use of renewable energy sources and supplied to the electric networks of the unified electric power system of the Republic of Kazakhstan.

The creation and development of LLP "Settlement and Financial Center for the support of renewable energy sources" is connected with the adopted course of the Republic of Kazakhstan on the development of the renewable energy sector (hereinafter - RES). In order to create conditions for the development of the renewable energy sector, a state support mechanism was adopted based on the introduction of centralized purchase by a single buyer - the settlement and financial center of electric energy produced by renewable energy facilities.

- 2.39 tng/kWh
- 20 years
- 100% purchase

Construction Plan

1. It is planned to build 16 6.25MW wind turbines
2. Plan to build 30km of 35kv collector lines
3. It is planned to build a 220kv booster station
4. It is planned to build 15km of roads within the site and expand the original roads by 5km.
5. It is planned to build a transmission line of 0.3km

Main Indicators

Available power: 100,8 MW

Average wind speed measured on site (19.06.2021-18.06.2022) at a height of 100 m above the ground: 7,84 [m/s]

Long-term average wind speed at 100 m above ground: 7,75 [m/s]

Gross annual electricity supply, thousand: 434,325 kWh

Supply of electricity to the power grid, thousand: 372,792 kWh

Losses: thousand 61,533: kWh/year

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