



# State Policy Development of RE in KAZAKHSTAN

Ministry of Energy of Kazakhstan

# RE RESOURCES in Kazakhstan



**920** BLN  
kWh/year

wind power  
capability



**62** BLN  
kWh/year

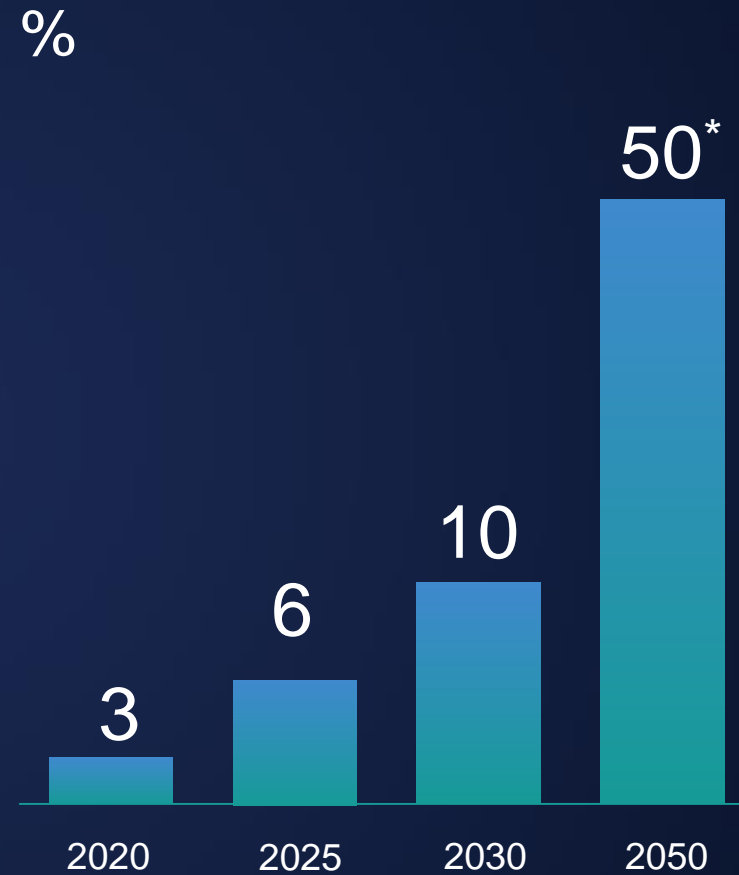
hydro  
capability



**3** THOUSAND  
SUN HOURS/year

solar power  
capability

# RE Development Targets:



\* considering NPP and HPP

2018 – 1,35 bln kWt  
2019:

75

existing  
RE facilities

684 MW

total capacity



wind  
**231.8** MW



hydro  
**200.5** MW



solar  
**250** MW



biogas unit  
**1.4** MW



Law

## On support for the use of renewable energy sources

defined:

- RE Electricity Purchase and Sales Structure with Financial Settlement Center
- Standard Form of 15-Year PPA at the Auction Rate in KZT
- Standard Form of Connection of a RE Facility to Electric Networks

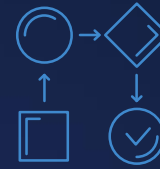


## Preferences for RE Producers

- Tariffs are subject to annual indexation, taking into account inflation and exchange rate differences between KZT and USD.
- Exempt from Payment for Electrical Energy Transmission.
- Investment preferences based on a contract concluded between the Government of Kazakhstan and the legal entity implementing the investment project.

Launched in 2018

## auction mechanism for RE projects



transparent and clear process of selecting projects and investors



selection of technologies and projects with minimum affect on end-user tariffs

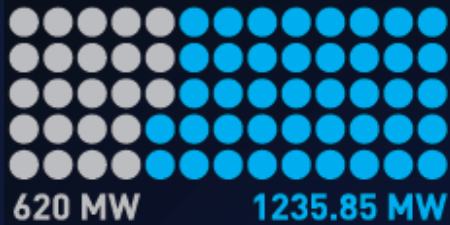


clear responsibility of market participants in generation, transmission and consumption of electricity

# Auction Results



500.85 MW  
selected



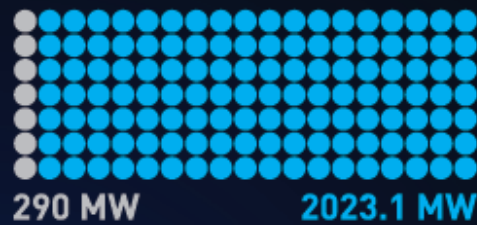
**WPP**

wind power plants

● demand ● supply



270 MW  
selected



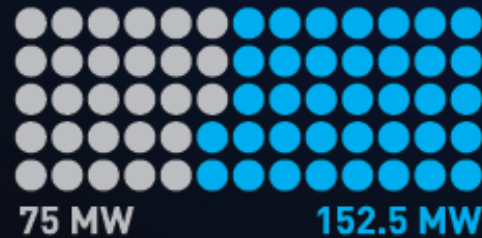
**SPP**

solar power plants

● demand ● supply



82.08 MW  
selected



**minor HPP**

hydro power plants

● demand ● supply



5 MW  
selected



**BioPP**

biomass power plants

● demand ● supply



# 36 RE projects with a total capacity of 857.93 MW were selected

Participants – 113 companies from 9 countries:



Kazakhstan



Netherlands



Italy



Russia



France



Turkey



China



UAE



Bulgaria

# AUCTION PRICES



**WPP**

**-23,3%**

₸ 22,6

↓ 17,39



**SPP**

**-48%**

₸ 34,61

↓ 18



**minor  
HPP**

**-23,4%**

₸ 16,71

↓ 12,8



**BioPP**

**-1%**

₸ 32,23

↓ 32,15



**Starting Price**

KZT per kWh



**Knockdown Price**

KZT per kWh

Investment Volume about **1 billion USD**



## Plans for 2019

- Revision of the state support mechanism for construction of Biogas PP
- Development of projects for hydroelectric power plants construction
- Developing of regulatory framework, of supporting small scale RE projects, as well as RE-based generation in new construction
- **Auction schedule [www.energo.gov.kz](http://www.energo.gov.kz)**



THANK YOU!