

MINISTRY OF ENERGY OF THE REPUBLIC OF KAZAKHSTAN

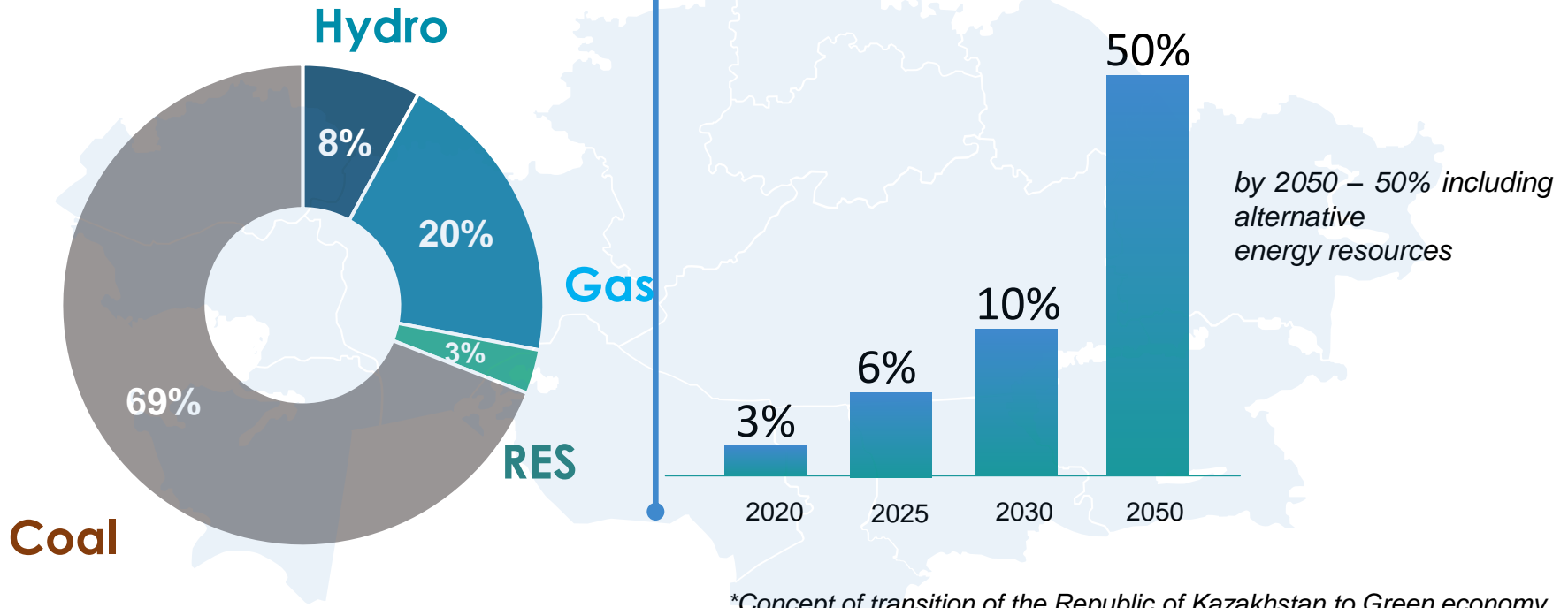


**«PROSPECTS FOR THE DEVELOPMENT OF  
RENEWABLE ENERGY SOURCES»**

Nur-Sultan,  
June 2021



## Strategic target indicators for RES development\*



\*Concept of transition of the Republic of Kazakhstan to Green economy  
Strategy of development of Kazakhstan-2025  
Strategy of development of Kazakhstan-2050

# DYNAMIC DEVELOPMENT RENEWABLE ENERGY 2014-2021



**2014**  
**26 FACILITIES**

**0,6%**

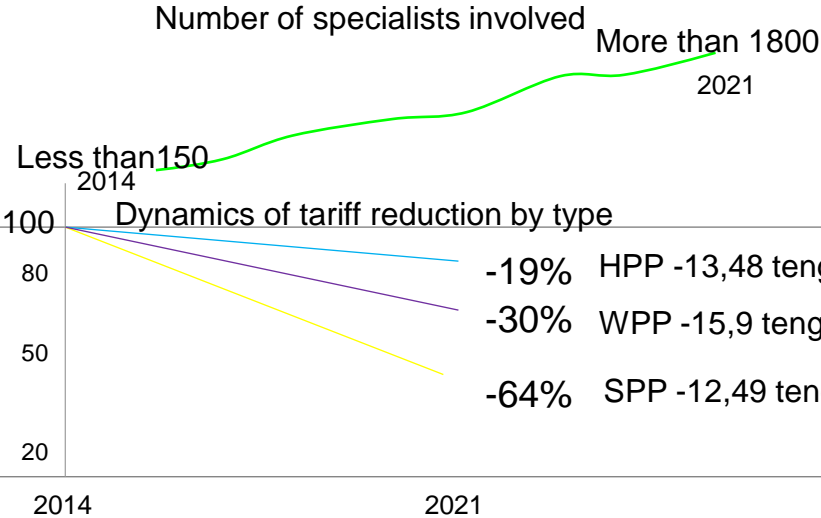


**Investment of  
160 mln.\$**



**178 MW**

Number of specialists involved



**2021**  
**119 FACILITIES**

**3.5%**

**Investment of  
1,5 bln.\$**

**1796 MW**



**RESULTS OF 2020:** 115 renewable energy facilities  
with a total capacity of 1634.7 MW  
produced 3.24 billion. kWh.



**WPP**  
511,3 MW  
29 facilities



**SPP**  
1021MW  
46 facilities



**HPP**  
255 MW  
39 facilities



**BioPP**  
7.82 MW  
5 facilities

# Development of renewable energy sources



## Phased transition to alternative energy sources and introduction of green technologies

### CURRENT SITUATION:



1. **Passive development of other types of green energy**
2. **Lack of responsibility of RES facilities for compliance with the requirements of regulating daily schedules**
3. **Insufficient incentive mechanisms for the development of distributed renewable energy generation**



### Solution



Development and adoption of a new **Law on the development of alternative energy sources**



Implementation of **regulatory and technical requirements for renewable energy facilities**



Improvement of legislation on additional **incentives for distributed generation** of renewable energy sources

### Expected results

1. **Commissioning** of new renewable energy facilities with a total capacity of **1,400 MW**
2. Reducing the negative impact of renewable energy on the energy system
3. Implementation of a large-scale renewable energy project with a capacity of 1,000 MW



## FURTHER DEVELOPMENT OF THE RENEWABLE ENERGY SECTOR AND IMPROVING LEGISLATION



Conducting auctions for the selection of renewable energy projects for 210 MW



Development of renewable energy sources with electricity storage systems



Improving the mechanism of distributed generation of RES among the population and SME's



Provision of incentive mechanisms for large hydroelectric power plants



Increase in the volume of clean energy by 2 times until 2025



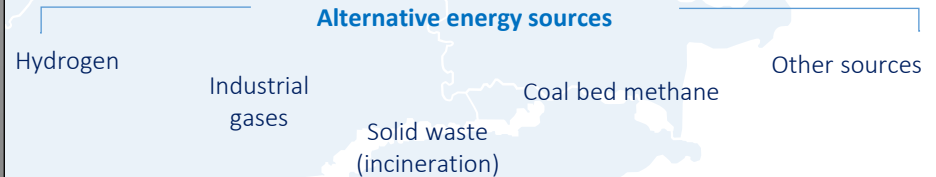
Introduction of requirements for RES market participants to regulate daily schedules (compliance with the operating mode of power plant generating units set by the system operator)



Implementation of the hydropower development Plan for 2020-2030

## DEVELOPMENT ALTERNATIVE ENERGY SOURCES

In order to implement the decarbonization policy and the President's instructions given on February 25 this year at the V meeting of the National Assembly, work has begun on the development of a new law on the development of alternative energy

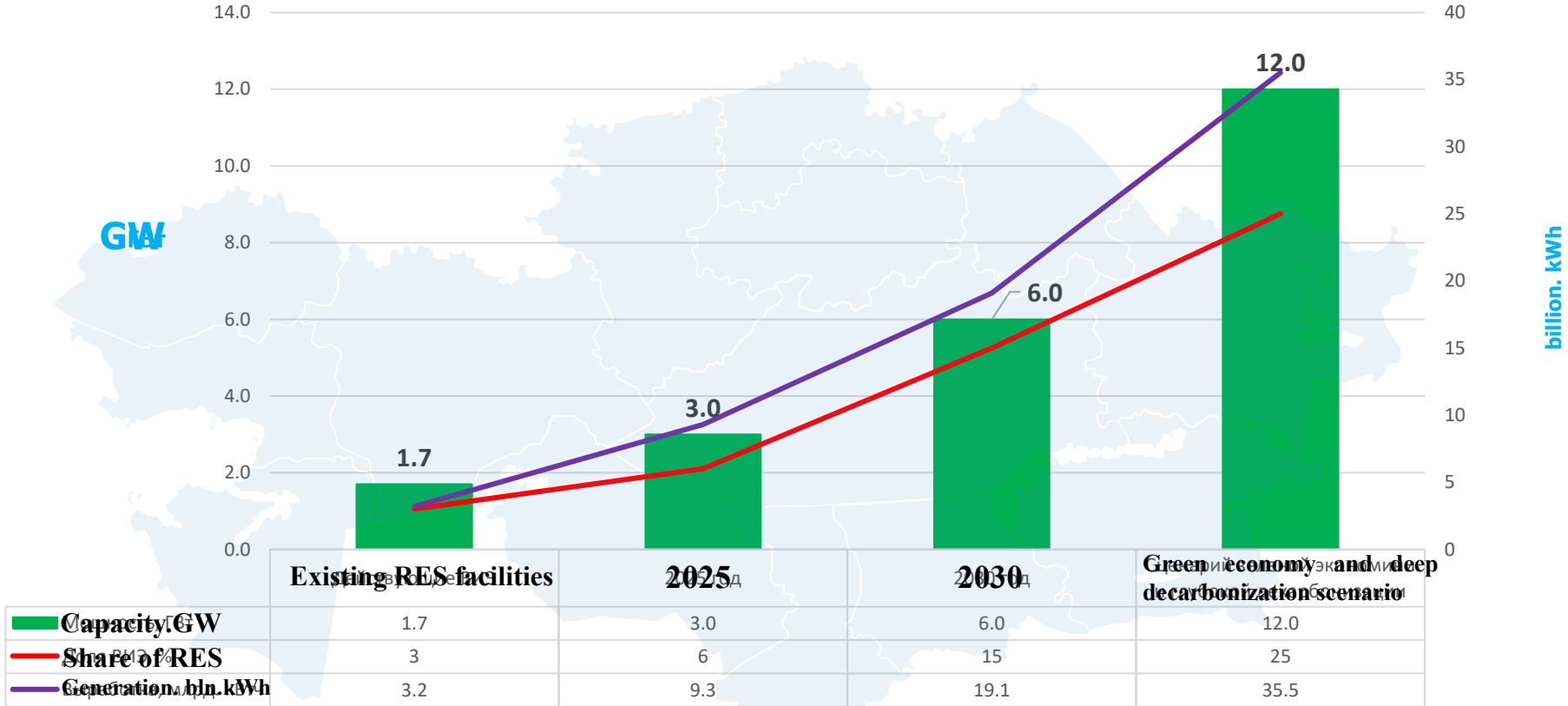


A working group was created on March 12 this year



Development of the draft Law – December 2022

# RES development scenarios





**Thank you for your attention!**

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