RENEWABLE ENERGY DEVELOPMENT IN KAZAKHSTAN

MINISTRY OF ENERGY OF THE REPUBLIC OF KAZAKHSTAN
PRIMARY ENERGY RESERVES OF KAZAKHSTAN

32 BILLION TONS
IN OIL EQUIVALENT

3.6%
OF WORLD PRIMARY ENERGY RESERVES
PRIMARY ENERGY RESERVES OF KAZAKHSTAN

No. 1 in uranium mining in the world

40% of world uranium mining
KAZAKHSTAN NATURAL RESOURCES

FOREIGN PARTNERS TECHNOLOGIES
No. 36

IN DOING BUSINESS RATING

IMPROVED POSITIONS BY CRITERIA

- BUSINESS REGISTRATION
- GRID CONNECTION
- PROPERTY REGISTRATION
- ENFORCEMENT OF CONTRACTS
RENEWABLE ENERGY INVESTMENTS

- Wind Energy Potential: 920 Billion KWh/year
- Hydro Energy Potential: 62 Billion KWh/year
- Solar Energy Potential: 3 Thousand Solar Hours/year
2017

- **50** Operating RES Facilities
- **336 MW** Total Capacity

- **Wind**: 107 MW
- **Hydro**: 171 MW
- **Solar**: 58 MW
- **Bio Gas**: 0.35 MW
RES DEVELOPMENT INDICATORS

RENEWABLES
%

- 2020: 3%
- 2030: 10%
- 2050: 50%
2020

103 OPERATING RES FACILITIES

2000 MW TOTAL CAPACITY

23 WIND 960 MW
13 HYDRO 290 MW
17 SOLAR 960 MW
THE LAW
‘ON SUPPORT OF THE USE OF RENEWABLE ENERGY SOURCES’

DEFINES:
• SCHEME OF PURCHASE AND SALE OF RES ELECTRIC ENERGY WITH FINANCIAL SETTLEMENT CENTRE
• 15-YEAR PPA STANDARD FORM BY AUCTION PRICE AND IN NATIONAL CURRENCY (KZT)
• STANDARD FORM OF RES FACILITY GRID CONNECTION AGREEMENT
PREFERENCES FOR RES PRODUCERS

- TARIFFS ARE SUBJECT TO ANNUAL INDEXATION CONSIDERING INFLATION AND EXCHANGE DIFFERENCE BETWEEN KZT AND USD
- EXEMPTION FROM PAYMENT FOR ENERGY TRANSMISSION SERVICES
- INVESTMENT PREFERENCES ON THE BASIS OF CONTRACT SIGNED BETWEEN THE GOVERNMENT OF THE REPUBLIC OF KAZAKHSTAN AND LEGAL ENTITY WHICH IMPLEMENTS INVESTMENT PROJECT
- PRIORITY DISPATCHING OF ELECTRIC ENERGY
FROM 2018
Auction mechanism of RES projects selection

Transparent and clear process of projects and investors selection

Selection of technologies and projects having the least affect on the tariffs of end consumers

Clear responsibilities of market participants in generation, transmission and consumption of electric energy
MINISTRY OF ENERGY PUBLISHED THE 2018 AUCTION SCHEDULE

THERE YOU CAN FIND THE INFORMATION ON FREE RESERVED LAND PLOTS, ON POSSIBILITY OF CONNECTING ENERGY TRANSMISSION COMPANIES TO ELECTRIC GRID WITH THE MAXIMUM PERMISSIBLE CAPACITY FOR POINTS OF CONNECTION TO ELECTRIC GRID AND THE NUMBER OF POSSIBLE CONNECTIONS.
Selection of RES projects for auctions is based on:

- Maximum permissible installed capacity by zones of unified power system
- RES potential
- Readiness of infrastructure and demand in energy
- RES facilities location plan considering target indicators
1. Company wins in auction
2. Included in the list of energy producing organizations
3. Signs PPA with FSC for 15 years
INVESTOR MUST PLACE A BID BOND TO IMPLEMENT RES PROJECT
WE DEVELOPED INTERNET PLATFORM FOR AUCTIONS

MOST EFFECTIVE RES PROJECTS WIN AND SIGN PPA

3-HOUR SESSION
WE WELCOME INTERNATIONAL FINANCIAL INSTITUTIONS AND PRIVATE INVESTORS FOR COOPERATION