



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

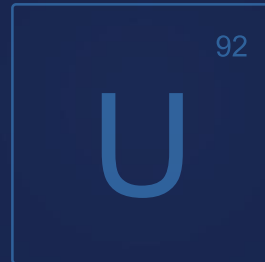
TOP 10

COUNTRIES BY OIL 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



920 BILLION
KWH/YEAR

**WIND ENERGY
POTENTIAL**



62 BILLION
KWH/YEAR

**HYDRO ENERGY
POTENTIAL**



3 THOUSAND
SOLAR HOURS/YEAR

**SOLAR ENERGY
POTENTIAL**

2017

50

**OPERATING RES
FACILITIES**

336 MW
TOTAL CAPACITY



WIND
107 MW



HYDRO
171 MW



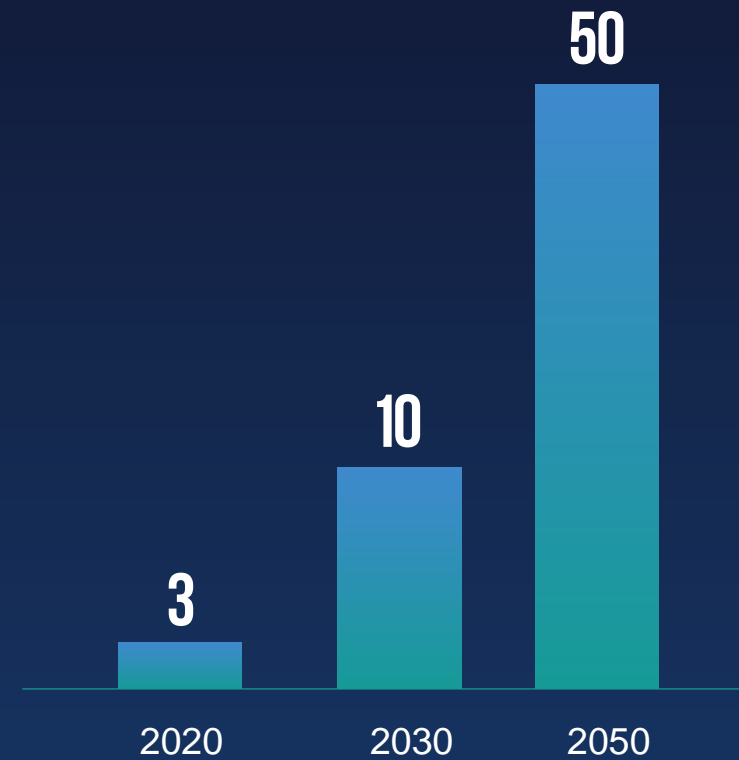
SOLAR
58 MW



BIO GAS
0.35 MW

RES DEVELOPMENT INDICATORS

RENEWABLES
%



2020

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:

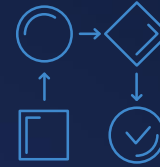
- **SCHEME OF PURCHASE AND SALE OF RES ELECTRIC ENERGY WITH FINANCIAL SETTLEMENT CENTRE**
- **15-YEAR PPA STANDARD FORM BY AUCTION PRICE AND IN NATIONAL CURRENCY (KZT)**
- **STANDARD FORM OF RES FACILITY GRID CONNECTION AGREEMENT**



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**

09.01.2018, 16:59:20 Astana Kazakhstan 2050 Official website of the President Official website of the Government
 Official website of the Parliament National Symbols

Ministry of Energy of the Republic of Kazakhstan Official website
 Ethics Commissioner 8 (7172) 78-68-88 Phone of the Office 8 (7172) 78-69-81
 Site map Feedback

ABOUT THE MINISTRY STATE SERVICES ADVISORY ACTIVITY MEDIA-CENTER CITIZENS AND BUSINESS
 CONTACTS

Oil and gas industry «Green» economy Atomic industry Electric energy industry Coal industry

BLOG CHAIRMAN
 Bozumbayev K. A. Minister of Energy of the Republic of Kazakhstan

THE MINISTRY NEWS

29 december 2017, 11:36
OPEN...
 Open Dialogue is an open platform for dialogue between the population and the state, which excludes barriers such as distance,...

29 december 2017, 09:15
PRESS RELEASE ON THE ACTIVITIES IN THE TERRITORY OF THE SPECIAL ECONOMIC ZONE "NATIONAL INDUSTRIAL PETROCHEMICAL TECHNO-PARK" IN...
 As of December 1, 2017, the total amount of disbursements...

28 december 2017, 11:11
OPEN NORMATIVE LEGAL...
 Open Normative Legal Acts is a component of the "Open Government". This portal ensures the participation of citizens in the...

28 december 2017, 09:05
OPEN...
 The portal was created in order to simplify citizens' representation about the notion of "budget planning" in the state and...

27 december 2017, 15:50
THE PRODUCTION OF BITUMEN IS GROWING IN...
 At the present time, Kazakhstan is working on the formation of an efficient transport and logistics system...

26 december 2017, 15:27
***OPEN...**
 Open data is a site where publicly available data of government bodies are placed in machine-readable form...

REGULATORY LEGAL ACTS

ANNOUNCEMENTS
 International Congress and Exhibition
 Hydropower Caspian and Central Asia

INFORMERS
 DAILY INDICES OF OGO RK
 27.12.2017
 RETAIL PRICE FOR FL IN RK (TG/L)

First 1 2 3 4 5 Last

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**

**READINESS OF INFRASTRUCTURE
AND DEMAND IN ENERGY**

**RES FACILITIES LOCATION PLAN
CONSIDERING TARGET INDICATORS**

**MAXIMUM PERMISSIBLE INSTALLED
CAPACITY BY ZONES OF UNIFIED
POWER SYSTEM**

RES POTENTIAL

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



3-HOUR SESSION

**MOST EFFECTIVE RES PROJECTS WIN
AND SIGN PPA**



**WE WELCOME INTERNATIONAL FINANCIAL
INSTITUTIONS AND PRIVATE INVESTORS FOR
COOPERATION**