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## MINISTRY OF ENERGY AND INDUSTRY OF THE KYRGYZ REPUBLIC Knowledge Co-Creation Program ENERGY POLICY

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# When the winds of change blow, some build walls, others windmills...

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### **INTRODUCTION: GENERAL INFORMATION OF THE COUNTRY**

**Official name:** Kyrgyz Republic

Form of government: **Presidential Republic** 

Language: Kyrgyz (state) Russian (official)

**Currency: KGS** 1 USD = 84,00 KGS EURO = 101,00 KGS

**Financial and cultural** centers: Bishkek city and Osh city

**Capital: Bishkek** 

Total territory: 199,9 thous. **C** Average age: 27 sq. km



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#### **ORGANIZATION INTRODUCTION**







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#### HISTORY

July 25, 1934 Kirobkoma Bureau of the CPSU (b) adopted a resolution on the transfer of the Frunze city networks 6 kV, the creation of the dispatch service and the approval of the organizational structure and management body Frunze grid - FOGES trust, which then gave the republican control function.



#### MISSION

The Ministry of Energy and Industry of the Kyrgyz Republic is a state executive body of the Kyrgyz Republic that carries out the functions of developing and implementing state policy in the field of the fuel and energy complex, industry (except for the food industry), geology, subsoil use and industrial safety, as well as state control and supervision compliance with legislation in the field of energy, industrial safety, geological work and subsoil use, as well as mandatory requirements for ensuring the safety of petroleum products.

#### GOAL

The purpose of the Ministry is to develop and implement a unified state policy in the fuel and energy complex and the industrial sector of the economy. IEEJ: August 2021 © IEEJ2021

#### **CURRENT ENERGY POLICY AND MEASURES**

The total hydropower potential of the Kyrgyz Republic is about 142 billion kWh

The republic ranks third in the CIS after Russia and TajikistanThe percentage of development of hydropower potential is only 10% On the largest river, the Naryn, 8 cascades of 34 hydroelectric power plants can be built.

The total installed capacity of . promising cascades is 6 450 MW Average long-term annual <sup>•</sup> production of more than 25 billion . kWh of electricity



THE LEGISLATIVE FRAMEWORK

- The Law of the Kyrgyz Republic "On renewable sourcesenergy";
- The Law of the Kyrgyz Republic "On Energy";
- Law of the Kyrgyz Republic "On Electric Power Industry";
- The Law of the Kyrgyz Republic "On Energy Saving";
- National Energy ProgramOf the Kyrgyz Republic for 2008-2010 and development strategy for fuel and energy complex until 2025

## PAST ENERGY DEMAND AND SUPPLY STATISTICS







The power system of the Kyrgyz Republic, due to geographic features, is clearly divided into **northern and southern** parts. Both parts are connected by the **500 kV** line "Toktogulskaya HPP - Frunzenskaya", passing through the territory of the Kyrgyz Republic, as well as through the CA UPS, covering the Republic of Tatarstan, RU and RK, as well as by the **500 kV** line "Datka - Kemin".

In the structure of electricity generation, the lion's share is occupied by hydroelectric power plants (90%), the main of which are located in the south of the country.

## IEEJ:August 2021 © IEEJ2021 PAST ENERGY DEMAND AND SUPPLY STATISTICS



**OUT**LOOK OF ENERGY DEMAND AND SUPPLY

AVAILABLE RENEWABLE ENERGY POTENTIAL Wind power can generate from 44.6 million kWh per year ~ 20 MW Solar energy can generate from 490 million kWh per year ~ 250 MW Small hydropower can generatef rom 5 to 8 billion kWh per year ~ from 1.2 GW to 2 GW

#### **CHAPTER 3. STATUS AND POLICIES** OF NEW ENERGY USE AND DEVELOPMENT (cont)



#### **CHAPTER 3. STATUS AND POLICIES OF NEW ENERGY USE AND DEVELOPMENT (cont)**

ENSURING ENERGY SECURITY ✓ RECONSTRUCTION AND RENEWAL OF KEY ASSETS (HPPs, networks, etc.) MEETING THE GROWING **ENERGY** DEMAND FOR ✓ CONSTRUCTION OF NEW HPPs **RESOURCES** ✓ IMPLEMENTATION OF MODERN CREATING A POWER RESERVE ELECTRICITY METERING SYSTEMS FOR NEW CONSUMERS ✓ IMPROVEMENT OF THE DEVELOPMENT OF **REGULATORY AND LEGAL** ENVIRONMENTALLY FRIENDLY FRAMEWORK **ENERGY SOURCES** ✓ IN THE ENERGY **INCREASING** ENERGY SPHERETRANSITION TO **EFFICIENCY** ECONOMICALLY BASED TARIFFS FORMATION OF A COMPETITIVE ✓ INCREASE IN THE USE OF RES AND **ENVIRONMENT** INTRODUCTION OF MODERN **TECHNOLOGIES FOR EFFICIENT USE OF ENERGY** 

INCREASING EXPORT CAPACITY

#### MAJOR DIFFICULTIES AND BOTTLENECKS CURRENTLY FACED IN FORMULATING ENERGY POLICIES



#### **INFORMATION ON ONGOING PROJECTS**

N⁰	Name of projects	Period
1	Commissioning of the second hydroelectric unit of the Kambarata	2018-2023
	HPP-2	
2	<b>Rehabilitation of the energy sector</b>	2013-2019
3	<b>Rehabilitation of the Toktogul HPP. Phase 2</b> "	2015-2021
4	<b>Rehabilitation of the Toktogul HPP. Phase 3</b> "	2016-2023
5	<b>Reconstruction of At-Bashinskaya HPP</b>	2014-2022
6	<b>Construction of the Kambarata HPP-1</b>	2018-2025
7	<b>Construction of the Upper Naryn HPP Cascade</b>	2018-2027
8	Energy sector development	2013-2018
9	Improving power supply to the Arkinsky massif, Leilek district,	2014-2019
	Batken region	
11	CASA-1000	2016-2022
12	Improving accountability and reliability of the power supply system	2014-2019.
13	<b>Rehabilitation of JSC "Oshelectro"</b>	2017-2020
14	<b>Rehabilitation of OJSC "Vostokelectro"</b>	2018-2021
15	Improving power supply	2018-2022
16	<b>Reconstruction and construction of pumping stations</b>	2018-2021

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### POSSIBLE INTERESTS AND COOPERATION





Thank you for your attention!