



The State Committee for Industry, Energy and Subsoil of the
Kyrgyz Republic



RENEWABLE ENERGY SOURCES IN THE KYRGYZ REPUBLIC

2020



MAIN ASPECTS OF ENERGY DEVELOPMENT IN THE KYRGYZ REPUBLIC



ENSURING ENERGY SECURITY



MEETING THE GROWING DEMAND FOR ENERGY



CREATION OF A RESERVE OF CAPACITIES FOR NEW CONSUMERS



DEVELOPMENT OF ENVIRONMENTALLY SOUND ENERGY SOURCES



IMPROVING ENERGY EFFICIENCY



FORMATION A COMPETITIVE ENVIRONMENT



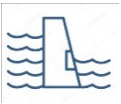
INCREASED EXPORT CAPACITY



MAIN DIRECTIONS OF DEVELOPMENT OF ENERGY OF THE



RECONSTRUCTION AND UPDATING OF MAJOR ASSETS (HPP, NETWORK AND SO ON)



CONSTRUCTION OF NEW HPP



IMPLEMENTATION OF MODERN ELECTRICITY ACCOUNTING SYSTEMS



IMPROVEMENT OF THE REGULATORY AND LEGAL FRAMEWORK IN THE FIELD OF ENERGY



TRANSITION TO COST-EFFECTIVE TARIFFS



INCREASE THE SHARE OF RENEWABLE ENERGY SOURCES



POTENTIAL RENEWABLE ENERGY SOURCES IN THE KYRGYZ REPUBLIC

The Kyrgyz Republic is one of the States with a great potential for renewable energy. First of all, it is the energy of watercourses, the sun and wind energy. Estimates of experts show that potential renewable energy in Kyrgyzstan will replace up to 50.7% of the demand for fuel and energy resources consumed by the republic today

The potential energy resources of renewable energy sources of the republic, which are actually available at the current level of development of technology and technologies, make up 840 million conventional fuel per year. At present, the practical use of renewable energy sources is insignificant and in the total energy sector of the country is slightly more than 1%.



SMALL HYDROPOWER

The most explored and technically prepared for wide practical use are the development of the capacity of small and medium-sized watercourses.

The hydropower potential of small rivers and watercourses is about 5-8 billion kWh per year, of which the republic uses less than 1%.

To date, 16 small hydropower plants are operated with a total installed capacity of 46.8 MW.

258 MW

Potential of small hydropower plants

1.5 billion kWh





SOLAR ENERGY

The prospect of using solar radiation is determined by the magnitude of its duration of sunlight and the level of intensity.

In the Kyrgyz Republic, the average annual duration of sunshine is 2100-2900 hours.

More than 50% direct solar radiation.

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Annual surface radiation
1700 kWh/m²



WIND ENERGY

The territory of the Kyrgyz Republic has very complex orography. Accordingly, the territorial distribution of wind speed is also complex.

Higher energy potential is characterized by high-altitude areas of slopes and main ridges.

Studies show that the republic has wind energy potential at speeds of 4 to 5 m/s

The gross annual energy potential of the wind flows of the Kyrgyz Republic can be about 2 billion kWh.