

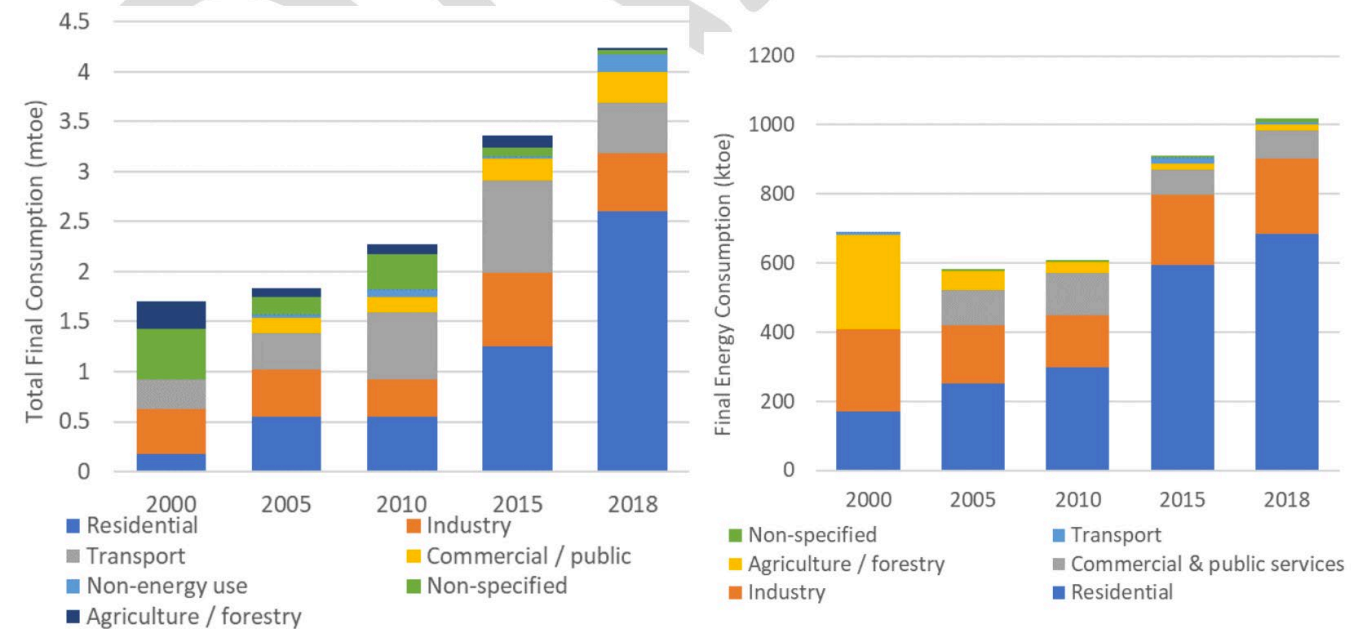
Renewable Energy Development in Kyrgyzstan

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Existing challenges of Energy Sector of Kyrgyz Republic [1]

- Annual growth of the final energy consumption increased by 87% since 2010
- The electricity consumption in Kyrgyzstan has increased by around 68% since 2010
- The electricity demand for the residential sector, has increased by 130% since 2010 and accounted for two-thirds of the electricity consumption in 2018.

Figure 1: Rising domestic demand for energy (left) and electricity (right)

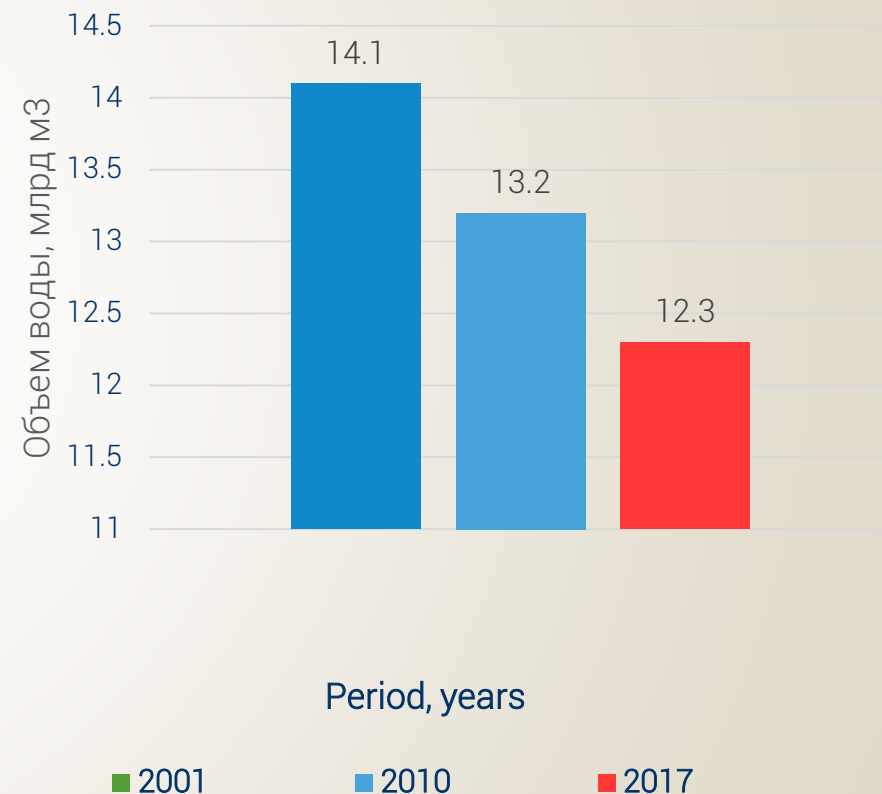


Source: (IEA, 2020)

Existing challenges of Energy Sector of Kyrgyz Republic [2]

- ▶ Dependence on the water level in the Toktogul reservoir (about 40% of the total electricity generation in the republic)
- ▶ Deficit /import of electricity in winter and during the droughts
- ▶ Depreciation of more than 50% of a part of power equipment
- ▶ Deficit of funds in energy companies caused by tariffs below cost price
- ▶ Debt of energy companies (As of the end of 2020, the debt of OJSC "Electric Power Plants" for state borrowed funds is 53.8 billion soms)

Long-term inflow into the Toktogul reservoir

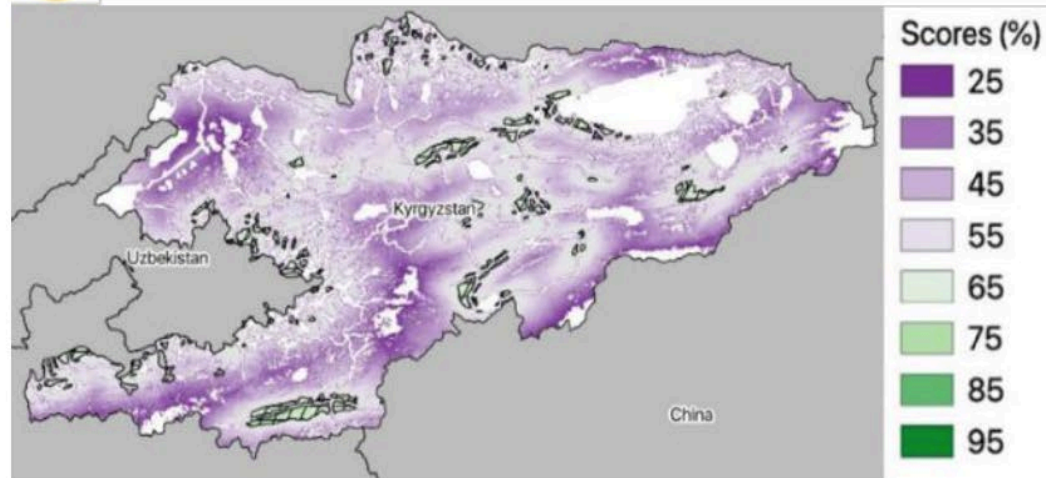


Opportunities of the Renewable Energy in Kyrgyzstan

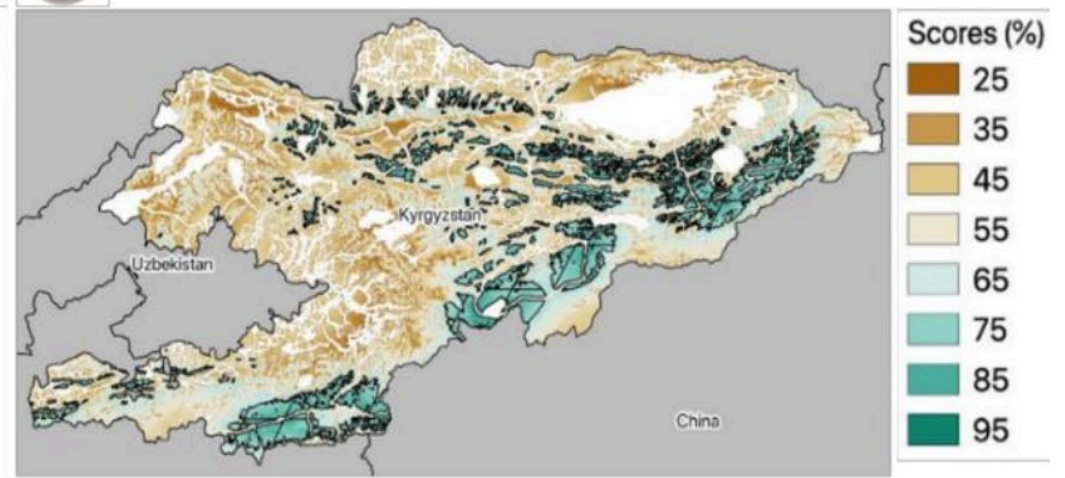
- The country has significant renewable energy potential for technologies such as solar PV, wind, bioenergy, and hydropower.



Solar PV Suitable Areas and Zones



Onshore Wind Suitable Areas and Zones



Source: (IRENA, 2020b)

Renewable energy legislation framework

- The Law on Renewable Energy, adopted 2008, revised 2019
 - Obliges electricity distribution companies to purchase energy generated using renewable energy sources
 - Sets preferential tariffs for the sale of electricity generated by renewable energy sources (increasing coefficient 1.3)

Recommendations of Renewable Energy Development

- Improvement of the existing legislation and increasing the investors interest for the RE development on :
 - the necessary technical regulations and standards for the RE installations;
 - economic motivations – exemption of the VAT and custom fee;
 - the Light house solar rooftop projects;
 - the FIT scheme for Solar and Wind renewables
- Increasing public awareness about clean energy opportunities
- Increasing the capacity and coordination between governmental institutions
- Increasing R&D capacities and technology transfer opportunities



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THANK YOU!