

How to solve Kyrgyz energy problem?

The recent theoretical development has been identified that to resolve the issue of the Kyrgyz power sector as well as to provide sustainable energy (especially in rural areas), the RE sources are the most promising solution.

Does Kyrgyzstan have a good power supply?

According to the results of the quality of energy delivering services survey in Kyrgyzstan made by the National Statistical Committee in 2015, "only 11.8 % of households had uninterrupted power supply, while 64.4 % had power cut several times a year and 0.5 % had daily power cuts" ( National Statistical Committee of the Kyrgyz Republic, 2017 ).

Does Kyrgyzstan have energy insecurity?

Kyrgyzstan - a Central Asian country - faces a high degree of energy insecurity. Especially the Kyrgyz power sector suffers from outdated infrastructure and is not capable of fulfilling the growing and fluctuating inter-seasonal energy demand.

What is Kyrgyz energy policy?

Outlook to the Kyrgyz energy policy To unleash the RE capacity, the Kyrgyz government introduced the law titled "Renewable energy sources (RES)" in December 2008 ( Ministry of justice of the Kyrgyz Republic, 2008 ). Kyrgyzstan was the first country in Central Asia who implemented RE-based law.

Why does Kyrgyzstan need a new focus on hydropower generation?

The Kyrgyz government needs to change the focus from hydropower generation as it suffers from variable hydrology and seasonal demand issues towards more diversified and reliable energy resources to produce power. On the contrary, Kyrgyzstan is blessed with plentiful renewable energy (RE) resources (other than hydro resources) ( IEA, 2020 ).

How does Kyrgyzstan meet the energy gap?

To meet the energy gap, Kyrgyzstan imports electricity from the neighbouring countries (i.e., Tajikistan and Kazakhstan), especially during winter. During summer, the average flow of a river is higher as compared to winter ( Gassner et al., 2017 ). Fig. 1 gives the comparative impression of residential consumption in winter and summer. Fig. 1.

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The task of National Power Grid of Kyrgyzstan is to transmit power via national 126, 252 and 550 kV power

lines to the consumers and control over the network and interstate and republican ...

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The Datka-Kemin transmission line enables Kyrgyzstan to transmit electricity from a hydropower base in the southwest to an electricity consumption center in the capital city of Bishkek in the northeast, without ...

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Currently, Kyrgyzstan's renewable energy law only permits producers of over 500 kW/h to sell electricity to the central grid, with no regulation in place for microgeneration. This legislative gap stifles the development of ...

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National Electrical Grid of Kyrgyzstan JSC was established on 7 September 2001 as a result of reorganization of Kyrgyzenergo JSC. During 2001 division of Kyrgyzenergo was formed in accordance with long-term governmental program Reorganization and privatization of Kyrgyzenergo JSC appointed by the decision of Government Ns 333 dated ...

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