

The role of renewable energy in providing energy security of Kyrgyzstan

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Renewable Energy Recourses of Kyrgyzstan

№	Kind of RES	Resources
1	Solar energy	4,64 bill. MW h
2	Wind energy	2 bill. MW h
3	Biogas	1,6 bill. m ³
4	Hydro power energy of small rivers	5-8 bill. MW h
5	Big electric Power stations	11-14 bill. kW h

Production of the electric energy in Kyrgyzstan

(billion kW h)

Generat plants	1990	1995	2000	2005	2010	2015	2020	2025
HydrEP	8,96	11,1	13,56	13,82	17,02	19,18	20,23	24,48
YeatEP	4,4	1,16	1,51	1,20	1,58	1,82	2,11	2,43
RES	--	--	0,09	0,09	0,20	0,30	0,39	0,54
Total	13,37	12,35	14,76	15,28	18,81	21,31	22,66	27,46

Energy consumption of Kyrgyzstan

№	Kind of Energy	Consumption
1	Electrical energy	10,0-11,6 million kW h
2	Natural gas	300-310 million m ³
3	Coal	1,3 – 1,4 million ton
4	Other (petrol, wood)	0,5-0,6 million ton

Opportunities of the RES usage

- Presence of sufficient RES;
- Low density of consumers;
- Predominantly consumption low potential energy ($<100^{\circ}\text{C}$);
- Presence of the system of preparation of the specialists on RES;
- Presence of the RES Scientific and developing centers.

Obstacles to application of the RES

- Inert thought of population;
- Relative expensive prices of materials for production RE installation;
- Low purchasing ability of the population;
- Cheapness of electrical energy (0,15 \$/ kW h);
- Absence of advertising and exhibition centers;
- Not best infestation climate.



Thank you for attention