

List of hydropower stations in the Kyrgyz Republic

n	Name and location	Specifications	Condition	Impact on river flow
OPERATING				
1.	Toktogulskaya HPS Naryn river (tributary of Syrdarya river)	Capacity - 1200 megawatt, units – 4, power generation – 4400 billion. kWt/h, dam height - 215 m, reservoir capacity - 19,5 km ³ ., usable storage - 14 km ³ , water-surface area - 284 km ² , length - 65 km.	Operates since 1975, generates up to 40% of electricity in KR; reconstruction need.	Irrigation and energy purposes. The biggest reservoir in Central Asia, allows over-years regulation of the flow and improve water supply guarantee in irrigated areas (from 75% to 90%). Since 1992 the Toktogulskaya HPS operates the electricity-generating mode what is accompanied by large water releases in non-vegetation period and by water accumulation in vegetation period. Such an operating mode provokes flooding the agricultural land downstream in winter and a critical water deficit - in summer, and damages greatly the agriculture production in Uzbekistan, Tajikistan and southern Kazakhstan.
2.	Kurpsaiskaya HPS Naryn river (tributary of Syrdarya river), down stream the Toktogulskaya HPS	Capacity – 800 Megawatt, units – 4, power generation – 2,63 billion. kWt/h, dam height – 113 m, reservoir capacity - 370 mln. m ³ , usable storage – 35 mln. m ³ .	Operates since 1976; reconstruction need	Energy purpose. Daily-storage reservoir.
3.	Tashkumyrskaya HPS Naryn river (tributary of Syrdarya river), down stream the Toktogulskaya HPS	Capacity – 450 Megawatt, units – 3, power generation – 1,55 billion. kWt/h, dam height - 75 m, reservoir capacity – 140 mln.	First unit was started up in 1985, second unit – in 1986, third unit – in 1987.	Energy purpose. Daily-storage reservoir.

n	Name and location	Specifications	Condition	Impact on river flow
		Cub.m, usable storage – 10 mln cub.m.		
4.	Shamaldysaiskaya HPS Naryn river (tributary of Syrdarya river), down stream the Toktogulskaya HPS	Capacity - 240 Megawatt, power generation – 900 mln. kWt/h, dam height – 37 m, reservoir capacity – 41 mln. m3, usable storage – 5,5 mln. m3	First unit was started up in 1992, second unit – in 1994, third unit – in 1996.	Energy purpose. No high-capacity reservoir. No considerable impact on river flow.
5.	Uchkurganskaya HPS Naryn river (tributary of Syrdarya river), down stream the Toktogulskaya HPS	Capacity – 180 Megawatt, power generation – 820 mln.kWt/h, dam height – 34 m, reservoir capacity – 53 mln. m3, usable storage – 20 mln. m3.	Operates since 1974; reconstruction need; Government of KR and South Korea company have signed Agreement on reconstruction of the Uchkurganskaya HPS.	Energy purpose. No high-capacity reservoir. No considerable impact on river flow.
6.	Atbashinskaya HPS Naryn river (tributary of Syrdarya river), down stream the Toktogulskaya HPS	Capacity – 40 Megawatt, units – 4, power generation – 160 mln. kWt/h, dam height 79 m, reservoir capacity – 10 mln. m3, usable storage – 4,3 mln. m3.	Operates since 1970.	Energy purpose. No high-capacity reservoir. No considerable impact on river flow.
7.	Kambaratinskaya HPS -2 Naryn river (tributary of Syrdarya river), upstream the Toktogulskaya HPS	Designed Capacity - 240-360 Megawatt, units – 3, power generation -1050-1148 mln. kWt/h, dam height – 60 m, reservoir capacity - 70 mln. m3, usable storage 8 mln. m3.	Construction of Kambaratinskaya HPS-2 is being implemented by the Kyrgyz Republic only. Implemented efforts are 30%. In October 2007 the Government adopted resolution on reactivation of construction and starting-up operation of the first unit on 22 December 2009. In 2008 1,6 billion. SOM (\$ 44 mln.) has been allocated for the hydropower station construction . Total costs for HPS completion is supposed will be five	Energy purpose. Daily-storage reservoir. Construction of the Kambaratinskaya HPS-2 isn't rational without construction of Kambaratinskaya HPS-1 in the judgment of specialists. According to technological requirements the Kambaratinskaya HPS-2 is needed to be constructed either after or simultaneously with construction of the Kambaratinskaya HPS-1. In other case the Kambaratinskaya HPS-2 would failed because of reservoir sedimentation.

n	Name and location	Specifications	Condition	Impact on river flow
			billion. SOM (\$ 143,65 mln.).	
PROJECTED				
8.	Kambaratinskaya HPS -1 Naryn river (tributary of Syrdarya river), upstream the Toktogulskaya HPS	Designed Capacity – 1900 Megawatt, power generation – 5,1 billion. kWt/h., dam height – 275 m, reservoir capacity – 4,7 km ³ , usable storage - 3,4 km ³ .	The association established by "Inter Russian Joint-Stock Company Common Energy System" (Russia), JSC "KazKuat" (Kazakhstan) and "Electric power stations" (Kyrgyzstan) had announced competition on justification of investment to construction of Kambaratinskaya HPS-1 and 2 in 2006. The winners were the French engineering company "Electricite de France" and transnational corporation "Price Water House Coopers" of which services amounted \$3,013 mln. Proposals on funding of technical and economic assessment of Kambaratinsky HPSs construction is planned to be finalized on May 2009, after that the investment attracting process will start. Preliminary project cost is \$1,7 billion.	Construction of Kambaratinskaya HPS-1 could considerably affect a seasonal and over-years regulation of flow in the Naryn and Syrdarya rivers.
9.	Toguztorauskaya HPS Naryn river (tributary of Syrdarya river)	Designed Capacity – 250 Megawatt, power generation – 0,9 billion. kWt/h, reservoir capacity: total – 170 mln. m ³ .	Government of KR is searching investors	Energy purpose. Daily-storage reservoir.
10.	Karabulinskaya HPS -1	Designed Capacity – 163 Megawatt, power generation –	Government of KR is searching investors	Energy purpose. No high-capacity reservoir. No considerable impact on river flow.

n	Name and location	Specifications	Condition	Impact on river flow
	Naryn river (tributary of Syrdarya river)	0,85 billion. kWt/h.		
11.	Karabulinskaya HPS -2 Naryn river (tributary of Syrdarya river)	Designed Capacity – 149 Megawatt, power generation – 0,58 billion. kWt/h, reservoir capacity – 110 mln. m3.	Government of KR is searching investors	Energy purpose. Daily
12.	Oruktamskaya HPS Naryn river (tributary of Syrdarya river)	Designed Capacity -100 Megawatt, units – 2, power generation – 648 mln. kWt/h, reservoir capacity – 558 mln. m3	Government of KR is searching investors	Energy purpose. Daily
13.	Djanykelskaya HPS Naryn river (tributary of Syrdarya river)	Designed Capacity -130 Megawatt, units – 2, power generation – 470 mln. kWt/h, dam height – 160 m, reservoir capacity – 325 mln. m3	Government of KR is searching investors	Energy purpose. Daily