

**Large reservoirs (with live storage of more than 10 millions m³)
and HPSs in the Syrdarya River Basin**

Republic of Tajikistan

Reservoir, HPS	Purpose	Start-up date	Reservoir capacity, Mm ³		Installed HPS capacity, MW/ number of aggregates, units	Water sources	Design institution	Responsible organization
			Full	Dead				
IN OPERATION								
Kayrakkum	Irrigation, Power	1959	4160	1560	126/6	Syrdarya	SAOGIDEP ¹	Administration for the Kayrakkum reservoir operation
Kattasay	Irrigation	1965	55	18.4	None	Kattasay		Administration for the Kattasay reservoir operation
Dagan-Say	Irrigation	1985	28	14	None	Dagan-Say		

Kyrgyz Republic

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IN OPERATION								
Kambarata-2	Power	2010	70	62	360/3	Naryn		
Toktogul	Irrigation, Power	1982	19500	5500	1200/4	Naryn	SAOGIDEP	
Uchkurgan	Power	1962	52.5	31.6	180/4	Naryn		
Kurpsay	Power	1974 - 1981	370	335	800/4	Naryn	SAOGIDEP	OJSC Power Station
Kurgantepa		1978	33.3	5.5		Shakhimardan		
Nayman	Irrigation	1966	80	1.5	None	Kirgizata and Chilisay		
Papan	Irrigation and Water Supply to Osh City	1985	260	20	None	Akbura		
Bazarkorgan	Irrigation	1962	22.5	2.5	None	Karaunkursay		
Tort-Gulskou	Irrigation	1970	90	15	None	Isfara		

¹ SAOGIDEP – Central Asia Division under Cooperative Research and Design Institute “HYDROPOWERPROJECT”

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Tashkumyr	Power	1985-1987	140	10	450/3	Naryn	SAOGIDEP	OJSC Power Station
Shamaldysay	Power	2003	40	10	240/3	Naryn	SAOGIDEP	
UNDER DESIGN								
Kambarata-1	Power		4650	1220	1900/4			
Upper Naryn HPSs:	Power	2016			237.7	Naryn	RusHydro ²	
Akbulun								
Naryn-1								
Naryn -2								
Naryn -3								

Republic of Kazakhstan

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IN OPERATION								
Koksaray	Counterregulator, Irrigation	2008-2011	3000	500		Syrdarya	Kazgyprovodkhoz ³	
Bugun	Irrigation	1967	370	6.3	None	Bugun		
Chardara	Irrigation, Power	1965	5700	1500	100/4	Syrdarya	SAOGIDEP	
Badam	Irrigation	1974	61.5	2.5	None	Badam River, Sayram-Su River		
Kapshagay	Irrigation	1983	34	2.0	None	Shayan		
Koshkurgan	Irrigation	1982	37.3	1.0	None	Karachik		
Ters-Ashibulak	Irrigation	1963	159	1.0	None	Ters		
Kuruksay	Irrigation	1990	650	50	None	Keles, Chirchik		
Berezovskoe	Irrigation	1980	480	140	None	Arys		

² RusHydro - Russian Hydroelectricity Company

³ Kazgyprovodkhoz – Kazakh State Institute for Design of Water Facilities

Republic of Uzbekistan

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IN OPERATION								
Djizak	Irrigation	1973	100	4	None	Sanzar	Uzgirovodkhoz Institute ⁴	Zarafshan Basin Irrigation Systems Administration (BISA)
Zaamin	Irrigation	1987	51	21	None	Zaamin	Uzgirovodkhoz Institute	Lower Syrdarya BISA
Charvak	Irrigation, Power	1963-1972	2006	426	620,5/4	Chirchik	Central Asian Division of Hydroproject Institute	Chichik-Akhangaran BISA, State JSC Uzbekenergo
Tyuyabuguz (Tashken Sea)	Irrigation	I phase – December 1961 II phase - December 1963	250	26.0	None	Akhangaran	Uzgipromeliiovodkhoz Institute (Sredazgirovodkhopok) ⁵	Administration for the Tashkent reservoir operation
Akhangaran	Irrigation	1989	198	13	None	Akhangaran	Sredazgirovodkhopok Institute (Uzgipromeliiovodkhoz)	Chichik-Akhangaran BISA
Farkhad	Irrigation, Power	1942-48	350	330	126/4	Syrdarya	SAOGIDEP	Uzbekenergo
Kassansay	Irrigation	I phase - 25.04.1957 / II phase - 26.01.1968	165	10	None	Kassansay	I phase – Sazvodproiz Trust. II phase – Sredazgirovodkhopok	Naryn-Syrdarya BISA
Karkidon	Irrigation	1967	218.4	7.0	None	Kuvasay and South Ferghana Canal (SFC)	Uzgirovodkhoz Institute	Administration of main canals systems for the Ferghana Valley
Andijan	Irrigation, Power	1978	1900	150	140/4 + 50(2) = 190	Karadarya	Uzgipromeliiovodkhoz Institute (Sredazgirovodkhopok)	Administration for the Andijan reservoir operation
Varzyk	Irrigation	1992	18.2	0.4	None	Galaba Canal	Ferghanagirovodkhoz Institute	Naryn-Syrdarya BISA
Eskiyor	Irrigation	1978	18.5	0.6	None	Namangansay	Uzgirovodkhoz Institute	Naryn-Syrdarya BISA

⁴ Uzgirovodkhoz – Uzbek State Research and Design Institute of Melioration and Water Resources

⁵ Sredazgirovodkhopok – Central Asia Research and Design Institute (nowdays Uzgipromeliiovodkhoz)

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Khodjикent	Power	1976	31	22	165/3	Chirchik		
Gazalkent	Power	1977-1981	16	9	120/3	Chichik		
Kurgantepa	Irrigation	1978	28.7	0.3	None	Arabtepasay, Kemkulsay		
Rezaksay	Irrigation	2010	300	2	None	Syrdarya	Sredazgiprovodkhlpok Institute (Uzgiplomeliiovdkhoz)	
Djidalisay	Irrigation	2011	44	1	None	Chadaksay	Uzgiprovodkhoz Institute	Administration for the Djidalisay reservoir operation
Chartak	Irrigation	2013	30	9	None	Chartaksay	Uzgiprovodkhoz Institute	Administration for the Chartak reservoir operation
Arnasay	Irrigation		1000	130		Syrdarya	Uzgiprovodkhoz Institute	Administration for the Arnasay reservoir operation
Tavaksay	Power	1932-1941			73.6 (4)	Chirchik (derivation)		
Chirchik HPS named after Loginov (Komsomolskaya) #7	Power	1932-1956			86.4 (4)	Chirchik (derivation)		
Akkavak-1 (#15)	Power	1941-1951			36.8 (1)	Chirchik (derivation)		
Akkavak-2	Power	1943-1946			9 (2)	Bozsu Canal		
Kibray (#11)	Power	1942-1943			11.2 (1)	Bozsu Canal		
Kadyrin (#3)	Power	1930 - 1936			13.2 (4)	Bozsu Canal		
Salar (#12)	Power	1943-1944			11.7 (1)	Bozsu Canal		
Bozsuy HPS	Power	1923-1936			4 (4)	Bozsu Canal		
Sheykhantaur (#21)	Power	1951-1955			3.6 (3)	Bozsu Canal (Ankhor)		
Burdjar HPS	Power	1933-1937			6.6 (2)	Bozsu Canal (Burdjar)		
Aktepin HPS	Power	1936-1943			15 (1)	Bozsu Canal (Aktepa)		
Lower Bozsu HPS 1	Power	1943-1944			10.2 (1)	Bozsu Canal		
Lower Bozsu HPS 2	Power	1950			7.2 (3)	Bozsu Canal		
Lower Bozsu HPS 3	Power	1945-1955			11.2 (2)	Bozsu Canal		

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Lower Bozsus HPS 4	Power	1948-1954			17.6 (2)	Bozsus Canal		
Lower Bozsus HPS 6	Power	1950-1954			4.4 (2)	Bozsus Canal		
UNDER CONSTRUCTION								
Central Ferghana	Irrigation		350			Big Andizhan Canal (BAC), Big Ferghana Canal (BFC)	SAOGIDEP	
Sardob	Irrigation		922			South Golodnosteppe Canal (SGC)	Sredazgiprovodkhopok Institute (Uzgipromeliiovodkhoz)	
Zarkent	Irrigation	1 phase in 1983 Construction uncompleted	25	0.5		Karakorumsay	Uzgiprovodkhoz Institute	
UNDER DESIGN								
Pskem	Irrigation, Power		500		450	Pskem	Central Asian Division of Hydroproject Institute	
Kamolot	Power	2011-			8	Chichik (derivation)		