

**Large reservoirs (with live storage of more than 10 millions m³)
and HPSs in the Amudarya 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								
Muminobad	Irrigation	1959	31.0	1.0	none	Obi-Surkhob	Tajikhydroproject	Kulyab Inter-district Joint Irrigation System
Pamir	Power	1994	-	-	4x7=28	Gunt		
Khorog	Power	1990	-	-	9	Gunt		
Selbur	Irrigation	1964	26	9.0	none	Kyzylsu	Tajikhydroproject	Kulyab Inter-district Joint Irrigation System
Varzob (1, 2, 3)	Power	1938, 1952, 1952	-	-	(2)7.44; (2)14.4; (2)3.52 = 25.36	Varzob River		
Centralnaya	Power		-	-	15.1			
Perepadnaya	Power		-	-	29.9	Vakhsh		
Sangtuda-1	Power	2008	258	246	670/4	Vakhsh	Inter RAO	OJSHC Barki Tochik
Golovnaya	Power	1966	94.5	76.5	240/6	Vakhsh	Tajikhydroproject	OJSHC Barki Tochik
Baypaza	Power	1986	97	13.5	600/4	Vakhsh	Tajikhydroproject	OJSHC Barki Tochik
Nurek	Irrigation, Power	1972-79	10500	5964	3015/ (9 x 335)	Vakhsh	SAOGIDEP ¹	OJSHC Barki Tochik, OJSC Nurek HPS
UNDER CONSTRUCTION								
Rogun	Irrigation, Power	1976 -	13300	3040	3600/6	Vakhsh	SAOGIDEP	OJSHC Barki Tochik, OJSC Rogun HPS
Sangtuda-2	Power	1995 –			220	Vakhsh	Sangob, Iran	
UNDER DESIGN								
Dashtidjum	Irrigation, Power		17600	10200	4000	Pyandj	SAOGIDEP	
Shurob	Power	12.5 km downstream of the Rogun			862.5 (4)	Vakhsh	Nurofat Institute	
Upper Amudarya	Power- Irrigation		15200	11400	1000	Amudarya		

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

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Matcha	Power		1000	200	90	Matcha, Zarafshan		
Riamut	Power		550	150	75	Matcha, Zarafshan		
Obordun	Power		1500	1160	120	Matcha, Zarafshan		
Pakhut	Power		50	30	130	Matcha, Zarafshan		
Sangistan	Power		50	30	140	Matcha, Zarafshan		
Yagnob	Power		420	120	150	Fandaryo, Zarafshan		
Ravat	Power		50	30	50	Fandaryo, Zarafshan		
Iskanderkul	Power		670	220	120	Fandaryo, Zarafshan		
Zakhmatabad	Power		16	6	190	Fandaryo, Zarafshan		
Vishkent	Power		50	30	160	Zarafshan		
Yavan	Power		50	30	160	Zaravshan		
Dupuly	Power		2600	1600	200	Zaravshan		
Pedjikent 1	Power				50	Zaravshan		
Pedjikent 2	Power				45	Zaravshan		
Pedjikent 3	Power				65	Zaravshan		

Turkmenistan

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IN OPERATION								
Zeid	Irrigation, Water supply	1963	2200	200	none	Karakum Canal	Turkmengiprovodkhoz ²	Ministry of Water Resources (MWR) of Turkmenistan
Khauzkhan	Irrigation	1962	875/460	25	none	Karakum Canal	Turkmengiprovodkhoz	MWR of Turkmenistan
Zapadnoe	Irrigation	1962	48	10	none	Karakum Canal	Turkmengiprovodkhoz	MWR of Turkmenistan
Kopetdag	Irrigation	1974 - 1 phase 1994 - 2 phase	540	25/50	none	Karakum Canal	Turkmengiprovodkhoz	MWR of Turkmenistan
Iolatan	Irrigation	1910	24	1.5/0	none	Murgap		MWR of Turkmenistan

² Turkmengiprovodkhoz - Turkmen State Research and Design Institute

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Kolkhoz-bent	Irrigation	1941	30	4.6/0	none	Murgap	Turkmengiprovodkhoz	MWR of Turkmenistan
Kaushtbente		1895	38.2	4.5	none	Murgap		MWR of Turkmenistan
Sary-Yazy	Irrigation	1984	331.5	20	none	Murgap	Turkmengiprovodkhoz	MWR of Turkmenistan
II – Tedjen	Irrigation	1960	16.9	0	none	Tedzhen	Turkmengiprovodkhoz	MWR of Turkmenistan
I - Tedjen (left pocket)	Irrigation	1950	190	0	none	Tedzhen	Turkmengiprovodkhoz	MWR of Turkmenistan
Khro-Khor	Irrigation	1960	10.9	0.9	none	Tedzhen/ Atrek	Turkmengiprovodkhoz	MWR of Turkmenistan
Mamedkul	Irrigation	1964	20.5	5.36	none	Atrek	Turkmengiprovodkhoz	MWR of Turkmenistan
Tashkeprin	Irrigation	1941	166	18.3	none	Murgap, Kushka	Turkmengiprovodkhoz	MWR of Turkmenistan
Garashsyzlygynyn 15 yily	Irrigation	1991	1150	230	none	Amudarya	Turkmengiprovodkhoz	MWR of Turkmenistan
Khan khovuz	Irrigation	1962 - 1 phase 1973 - 2 phase	700.0	40	none	Karakum Canal	Turkmengiprovodkhoz	MWR of Turkmenistan
Orta Gindugush	Irrigation	1896	15.0	0	none	Murgap		MWR of Turkmenistan
Ashaky Gindugush	Irrigation	1896	16.0	0	none	Murgap		MWR of Turkmenistan
Delili	Irrigation	1975	11	2	none	Atrek	Turkmengiprovodkhoz	MWR of Turkmenistan
Danatin	Irrigation	1985	435	48	none	Karakum Canal	Turkmengiprovodkhoz	MWR of Turkmenistan
Madluss	Irrigation	1985	700	50	none	Karakum Canal	Turkmengiprovodkhoz	MWR of Turkmenistan
Dostluk	Irrigation	2005	1250	250	none	Tedzhen	Turkmengiprovodkhoz	MWR of Turkmenistan

Republic of Uzbekistan

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IN OPERATION								
Tyuyamuyun	Irrigation, Power	1980	7800	2550	150/6	Amudarya	Central Asian Division of Hydroproject Institute	Lower Amudarya Basin Irrigation Systems Administration (BISA), Directorate for HPS
Tudakul	Irrigation	1986	1150	600	none	Big Andizhan Canal (BAC)	Uzgirovodkhoz Institute ³	Amu-Bukhara BISA
Talimardjan	Irrigation	1985	1525	125	none	Karshi Main Canal (KMC)	Uzgiromeliiovodkhoz Institute	Administration for KMC operation
Yuzhnosurkhan	Irrigation	1967	800	100	none	Surkhandarya	Sredazgirovodkhlopok Institute ⁴ (Uzgiromeliiovodkhoz)	Administration for the South-Surkhan reservoir operation
Tupolang	Irrigation, Power	1988	500	30		Tupolang	Uzgirovodkhoz Institute	
Shurkul	Irrigation	suspended in 1985	designed - 394, actual -170	designed - 17.0, actual -17	none	Zeravshan	Uzgirovodkhoz Institute	Amu-Bukhara BISA
Kuyamazar	Irrigation	1958	310	47	none	BAC/ Zeravshan	Uzgirovodkhoz Institute	Inter-provincial Administration for ABMC operation
Akdarya	Irrigation	1983	112.5	2.5	none	Akdarya	Samarkandgirovodkhoz Institute	Zarafshan BISA
Kattakurgan	Irrigation	1953	900	24	none	Zeravshan	Sazvodproiz Trust, then Sredazgirovodkhlopok	Zarafshan BISA
Karaultyube/ Karaultepa	Irrigation	1987	53	3	none	Zeravshan	Uzgirovodkhoz Institute	Zarafshan BISA
Kamashi	Irrigation	1987 after reconstruction	25.0	1.2	none	Karabagdarya	Uzgirovodkhoz Institute	Amu-Kashkadarya BISA
Kattasay	Irrigation	1961	55	15		Kattasay		
Pachkamar	Irrigation	1968	260	10	none	Guzadarya	Uzgirovodkhoz Institute	Administration for the Pachkamar reservoir operation
Dekhkanaabad	Irrigation	1991	18.4	3	none	Kichik- Uradarya	Uzgirovodkhoz Institute	Amu-Kashkadarya BISA

³ Uzgirovodkhoz – Uzbek State Research and Design Institute of Melioration and Water Resources

⁴ Sredazgirovodkhlopok – Central Asia Research and Design Institute (nowdays Uzgiromeliiovodkhoz)

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Chimkurgan	Irrigation	1963	500	0/50	none	Kashkadarya	Uzgiplomeliiovodkhoz Institute (Sredazgiprovodkhlopok)	Administration for the Chimkurgan reservoir operation
Gissarak	Irrigation, Power	1988-2011	170	8.4	45 (2)	Aksu, Kashkadaya	Uzgiprovodkhoz Institute	Administration for the Gissarak reservoir operation УЭ
Uchkyzyl	Irrigation	1957	160	80	none	Zang Canal	Sredazgiprovodkhlopok	Amu-Surkhan BISA
Aktepa, I phase	Irrigation	construction suspended, not accepted for regular operation	120	20	none	Zang Canal	Uzgiprovodkhoz Institute	Amu-Surkhan BISA
Degrez	Irrigation	1961	12.75	0.55	none	Tupalang River across Khazarbag Canal	Design Group in Surkhandarya Province	Amu-Surkhan BISA
Karasuy	Irrigation	1988	27.6	2.2	none	Karasu	Samarkandgiprovodkhoz Institute	Zarafshan BISA
Karatepa	Irrigation	1982	19.0	0.56	none	Karatepasay	Uzgiprovodkhoz Institute	Zarafshan BISA
Tusunsay	Irrigation	1990	42.0	5.5	none	Tusunsay	Uzgiprovodkhoz Institute	Zarafshan BISA
Mezhdurechensk	Irrigation		450	50	none	Amudarya		
Aktay	Irrigation	1963	110	20	none	Kashkadarya		