

STATUS OF PUMPED STORAGE DEVELOPMENT IN INDIA

	ON STREAM PSP (Generating PSPs)		OFF STREAM PSP (Storage PSPs)		TOTAL PSP (ON STREAM + OFF STREAM)	
Category	No. of projects	Capacity (MW)	No. of projects	Capacity (MW)	No. of projects	Capacity (MW)
Potential	64	57826	183	208100	247	265925.6
In Operation #	9	5245.60	1	1680	10	6925.60
Under Construction #	4	4350.00	6	7520	10	11870.00
DPR concurred by CEA/ Appraised by CEA	1	1000	4	5580	5	6580
Under Examination	1	640	-	-	1	640
Under S&I						
(i) Projects Under S&I in CEA	1	1000	19	29690	20	30690
(ii) Projects Under S&I not in CEA	1	500	33	45350	34	45850
Total (i) +(ii)	2	1500	52	75040	54	76540
DPR Returned for Resubmission						
Grand Total (Except in operation)	8	7490	62	88140	70	95630

#Out of total four units (4 x 250 MW) two unit of Tehri PSP(500MW) has been commissioned during June & July 2025
Therefore,Tehri PSP is in under construction & in Operation Category.

CATEGORY WISE STATUS OF PUMPED STORAGE DEVELOPMENT IN INDIA
(Installed Capacity above 25 MW)

S.No.	Pumped Storage Project	State	CAPACITY		On Stream/ Off Stream	Loop (Open /Closed)	Developer	Actual Commissioning/Antic ipated Commissioning	Date of CEA Concurrence	REMARKS
			No. of units x Unit size(MW)	MW						
A. PSP IN OPERATION										
1	Tehri (2 units comissioned out of 4 units)	Uttarakhand	2x 250	500	On Stream		THDC	2025 (June 2025 & July 2025)	May , 1985	
2	Ghatgar	Maharashtra	2x125	250	On Stream		MAHAGENCO	2008 (250 MW)	17.03.1993	
3	Purulia	West Bengal	4x225	900	On Stream		WBSEDCL	2007.00		
4	Srisaillam LBPH	Telangana	6x150	900	On Stream		TSGENCO	2001 (300 MW) 2002 (450 MW) 2003 (150 MW)		
5	Kadamparai	Tamil Nadu	4x100	400	On Stream		TANGEDCO	1987 (100 MW) 1988 (200 MW) 1989 (100 MW)		
6	Nagarjuna Sagar	Telangana	7x100.80	705.60	On Stream		TSGENCO	1980 (100.8 MW) 1981 (100.8 MW) 1982 (100.8 MW) 1983 (100.8 MW) 1984 (100.8 MW) 1985 (202 MW)		
7	Bhira	Maharashtra	1x150	150	On Stream		TATA Power	1927 (125 MW) 1949 (25 MW)		
8	Kadana	Gujarat	4x60	240	On Stream		GSECL			Presently not working in Pumping mode
9	Sardar Sarovar Project	Gujarat	6x200	1200	On Stream		SSNNL			Presently not working in Pumping mode
	Sub-Total (On- Stream)	9	Nos.	5246	MW					
1	Pinnapuram	Andhra pradesh	6 x 240 +2 x 120	1680	Off Stream	Closed	Greenko Ltd	June 2025 (5 x 240 MW) August 2025(2 x 120 MW) October (1 x 240 MW)	20.04.2022	
	Sub-Total (Off- Stream)	1	Nos.	1680	MW					
	Total	10	Nos.	6925.60	MW					
B. PSP UNDER CONSTRUCTION										
1	Tehri (2 units to be comissioned out of 4 units)	Uttarakhand	2x250	500	On Stream		THDC	2025-26 (Dec. '25)	May 1985	
2	Kundah (Stage I,II&III)	Tamil Nadu	4x125	500	On Stream		TANGEDCO	2025-27 (April 26)	03.12.2008	
3	Upper Sileru	Andhra Pradesh	9 x 150	1350	On Stream		APGENCO	2028-29 (Feb 2029)	13.06.2023	
4	Sharavathy	Karnataka	8 x 250	2000	On Stream		KPCL	2029-30 (Dec'29)	09.09.2024	
	Sub-Total (On- Stream)	4	Nos.	4350	MW					
1	Chitravathi	Andhra Pradesh	2 x 250	500	Off Stream	Open	Adani Renewable Energy Forty- Two Limited	2026-27 (Oct 26)	05.03.2025	
2	Bhivpuri	Maharashtra	4 x 200 + 2 x 100	1000	Off Stream	Open	TATA Power	2027-28 (Jan'28)	30.09.2024	
3	MP30 Gandhisagar	Madhya Pradesh	7x240 +2x120	1920	Off Stream	Open	Greenko MP01 IREP Private Limited	2026-27 (Dec'26)	19.12.2024	
4	Saundatti	Karnataka	320X4+160x2	1600	Off Stream	Closed	Greenko KA01 IREP Private Limited	2027-28 (Dec' 2027)	29.07.2025	
5	Gandikota	Andhra Pradesh	4 X 250	1000	Off Stream	Open	Adani Renewable Energy Fifty One Limited	2028-29 (Mar' 2029)	28.05.2025	
6	Bhavali	Maharashtra	5x250 + 2 x 125	1500	Off Stream	Open	JSW Energy PSP Two limited	2028-29 (Dec' 2028)	24.09.2024	
	Sub-Total (Off- Stream)	6	Nos.	7520	MW					
	Total	10	Nos.	11870.00	MW					

C. PSP DPR CONCURRED BY CEA AND YET TO BE TAKEN UP FOR CONSTRUCTION									
1	Turga	West Bengal	4x250	1000	On Stream		WBSEDCL		05.10.16
	Sub-Total (On-Stream)	1	Nos.	1000	MW				
1	Kandhaura	Uttar Pradesh	5x280+2x140	1680	Off Stream	Closed	JSW Energy PSP Six Ltd		13.06.2025
2	Upper Indravati	Odisha	4x150	600	Off Stream	Open	OHPC		19.08.24
3	Shirwata	Maharashtra	5x300 +2x150	1800	Off Stream	Open	Tata Power		07.09.2025
4	Pane	Maharashtra	5x250+2x150	1500	Off Stream	Open	JSW Energy		18.09.2025
	Sub-Total (Off-Stream)	4	Nos.	5580	MW				
	Total	5	Nos.	6580	MW				
D. PSP UNDER EXAMINATION									
1	Indira Sagar	Madhya pradesh	6x80+1x45	640	On Stream		NHDC Ltd		
	Sub-Total (On-Stream)	1	Nos.	640	MW				
	Total	1	Nos.	640	MW				
E. PSP UNDER SURVEY & INVESTIGATION									
Pumped Storage Projects under S&I in CEA									
1	Upper Bhavani	Tamil Nadu	4 x 250	1000	On Stream		NTECL		•Upper reservoir-Upper Bhavani , LR- Avalanche Emerald •Agency-NTECL •Target date of DPR preparation-04/26 Date of MoA/MoU-11.03.24
	Sub-Total (On-Stream)	1	Nos.	1000	MW				
1	Hasdeo bango	Chhattisgarh	4x200	800	Off Stream	Open	CSPGCL		• UR- off Stream , LR- Existing Hasdeo Bango Reservoir on Hasdeo River •Agency- CSPGCL •Date of MoA/MoU- 06.10.2023 •Target date of DPR Preparation-03/26
2	Sikaser	Chhattisgarh	4 x 300	1200	Off Stream	Open	CSPGCL		• UR- Off stream & LR-Sikaser Dam • Agency-CSPGCL • Target date of DPR Preparation-03/26
3	Rouni	Chhattisgarh	6 x 350	2100	Off Stream	Open	CSPGCL		• UR- Off river & LR- on river IB , tributary of Mahanadi • Agency-CSPGCL • Target date of DPR Preparation-12/26
4	Tarali	Maharashtra	5x300	1500	Off Stream	Open	Adani Green		•Upper Reservoir is proposed Offstream and Lower Reservoir is existing Tarali reservoir •Target date of DPR preparation- 10/26 •Agency-Adani Green Energy Ltd. •Date of MoA/MoU-28.06.2022
5	Karjat (Saidongar -1)	Maharashtra	9x300 + 2x150	3000	Off Stream	Open	Torrent Power		• UR- off Stream , LR- Initial filling by rainfall yield of self-catchment of the lower reservoir only •Agency- Torrent Power •Date of MoA/MoU-06.06.2023 •Target date of DPR Preparation-10/26
6	Maval (Saidongar -2)	Maharashtra	3x300 + 2x150	1200	Off Stream	Open	Torrent Power		• UR -off Stream & LR- Initial filling by rainfall yield of self-catchment of the lower reservoir only •Agency-Torrent Power •Date of MoA/MoU- 06.06.2023 •Target date of DPR Preparation-02/26
7	Savitri	Maharashtra	8 x 300	2400	Off Stream	Open	NHPC		• UR- Koyna river & LR- Savitri River • Agency-NHPC • Target date of DPR Preparation-03/26 •Date of MoA/MoU- 06.06.2023(revised MoU on 03.09.2024)
8	Jhariya	Uttar Pradesh	5x270 + 2x135	1620	Off Stream	Closed	Jhariya AnantUrja		• UR &LR-off Stream •Agency- Jhariya Anant Urja •Date of MoA/MoU- 19.08.2023 •Target date of DPR Preparation-04/26
9	UP01	Uttar Pradesh	11x305+2x152.5	3660	Off Stream	Closed	Greenko		• UR & LR- both off stream • Target date of preparation of DPR- 12/25 • Agency-Greenko •Date of MoA/MoU-01.02.2023
10	Shahpur	Rajasthan	5x300 +2x150	1800	Off Stream	Closed	Greenko		•Offstream closed loop, UR &LR -off stream •Target date of preparation of DPR- 12/25 •Agency-Greenko •Date of MoA/MoU-18.12.2021

11	Sirohi	Rajasthan	3x400	1200	Off Stream	Closed	JSW Energy			• UR off stream, LR located across a minor rivulet draining into Sili Nallah, a tributary of Sipu river in West Banas river basin • Target date of preparation of DPR- 04/26 • Agency- JSW Energy • Date of MoA/MoU-24.01.2022 (acknowledgment letter to LOI)
12	Chichlik	Uttar Pradesh	5x260 + 2x130	1560	Off Stream	Closed	Avaada			• UR & LR-off Stream • Agency- Avaada • Date of MoA/MoU- 03.04.2024 • Target date of DPR Preparation- 12/25
13	Masinta	Odisha	4 x 250	1000	Off Stream	Closed	NHPC			• UR- off stream & LR- off stream • Agency-NHPC • Target date of DPR Preparation-07/26 • Date of MoA/MoU- 23.06.2023
14	Motaraypura	Gujarat	4 x 250	1000	Off Stream	Open	GSECL			• UR- off stream & LR- existing Karjan Reservoir • Target date of DPR Preparation-12/26 • Date of MoA/MoU- 17.09.2024
15	Kumbhe	Maharashtra	4 x 275	1100	Off Stream	Open	NTPC			• UR- across the Nirabai River, a tributary of the Savitri River & LR- across a season nala • Target date of DPR Preparation-11/26 • Date of MoA/MoU- 03.09.2025
16	Kalu	Maharashtra	6 x 300	1800	Off Stream	Closed	NHPC			• UR- off stream & LR-Off Stream • Target date of DPR Preparation-11/26 • Date of MoA/MoU- 03.09.2024
17	Narihalla	Karnataka	2x150	300	Off Stream	Open	JSW Energy			• Upper Reservoir is proposed on minor rivulet draining into Narihalla Reservoir and Lower Reservoir- Narihalla Reservoir existing on Narihalla River • target date of DPR preparation- 06/26 • Date of MoA/MoU-28.11.2022
18	Malshej Ghat	Maharashtra	4 x 300	1200	Off Stream	Closed	THDC			• Date of MoA/MoU-03.09.2024 • Target date of DPR preparation - 12/26
19	Dharoi	Gujarat	10 x125	1250	Off Stream	Open	GSECL			• UR- off stream & LR- Dharoi reservoir • Agency-GSECL • Date of MoA/MoU- 24.09.2025 • Target date of DPR preparation - 04/26
	Sub-Total (Off-River)	19	Nos.	29690	MW					
	Sub-Total (PSP Under S&I in CEA)	20	Nos.	30690	MW					
Pumped Storage Projects under S&I not in CEA										
1	Balimela	Odisha	2x250	500	On Stream		OHPL			• UR- balimela existing reservoir & LR- to be constructed on Kharika johra Stream • Agency-OHPL
	Sub-Total (On-River)	1	Nos.	500	MW					
1	Sukhpura Off-Stream	Rajasthan	7x320 + 2x160	2560	Off Stream	Closed	Greenko			• UR & LR-Off stream, Both Upper Reservoir & Lower Reservoirs are to be constructed.. • Agency- Greenco • Date of MOA-24.01.2023
2	vempalli	Andhra Pradesh	6x250	1500	Off Stream	Closed	JSW Energy			• UR & LR- both off stream • Agency-JSW Energy • Date of MoA/MoU-25.01.2022
3	Musakhand	Uttar Pradesh	2x200+2x100	600	Off Stream	Closed	ACME Urja Two Private Limited			• UR & LR- both off stream • Agency- ACME Urja Two Private Limited • Date of MoA/MoU-03.04.2023
4	Malshej Ghat Bhorande	Maharashtra	6 x 250	1500	Off Stream	Closed	Adani Green			• UR on Minor nallah draining into Kukadi river & LR-on Minor nallah draining Into Kalu river • Agency-Adani Green Energy Ltd. • Date of MoA/MoU- 28.06.2022
5	Kamalapadu	Andhra Pradesh	3x238 +2x118	950	Off Stream	Closed	APGENCO			• UR & LR- both off stream • Agency-APGENCO • Date of MoA/MoU-23.08.2023
6	Koyna Nivakane	Maharashtra	8x 300 + 2x150	2700	Off Stream	Closed	Adani Green			• UR & LR-minor rivulet draining into Kera River/ Koyna river • Agency- Adani Green
7	Rayavaram	Andhra Pradesh	5x250+2x125	1500	Off Stream	Closed	APGENCO & ONGC			• UR & LR- on minor stream • Agency-APGENCO & ONGC
8	Gadikota	Andhra Pradesh	4x240+2x120	1200	Off Stream	Closed	APGENCO & NHPC			• UR & LR- off stream • Agency-APGENCO
9	Nayagaon	Maharashtra	5x334+2x165	2000	Off Stream	Closed	Greenko			• UR- Off Stream , LR- Minor Nallah Draining into Hivra river • Agency-Greenko • Date of MoA/MoU-16.01.2023
10	Shoma	Uttar Pradesh	7x300+2x150	2400	Off Stream	Closed	Torrent Power			• UR- Off Stream , LR- Off Stream • Agency-Torrent Power • Date of MoA/MoU-20.01.2023

11	Pedakota	Andhra Pradesh	5x300+2x150	1800	Off Stream	Closed	Adani Green			•UR & LR- on minor stream draining into the Sarada River •Agency-Adani Green •Date of MoA/MoU-23.05.2022
12	Bilaspur	Chhattisgarh	4x250	1000	Off Stream	Closed	Jindal Renewables			• UR &LR-off Stream •Agency-Jindal renewables •Date of MoA/MoU- 08.09.2023
13	Serula	Gujarat	6x160	960	Off Stream	Closed	GSECL			• UR &LR-off Stream •Agency-GSECL • Date of MoA/MoU-17.09.2024
14	Brahmani	Rajasthan	2x200+2x100	600	Off Stream	Closed	ACME Urja Two Private Limited			• UR & LR- off stream • Agency-Acme Urja Two Pvt Ltd
15	Panaura	Uttar Pradesh	4x300 +2x150	1500	Off Stream	Closed	Adani Green			• UR & LR- off stream • Agency-Adani Green • Target date of DPR Preparation-12/25
16	Juni kayaliwel	Gujarat	2x150	300	Off Stream	Closed	GSECL			• UR & LR- off stream • Agency-GSECL • Date of MoA/MoU-17.09.2024
17	Amalpada	Gujarat	2x150	300	Off Stream	Closed	GSECL			• UR & LR- off stream • Agency-GSECL • Date of MoA/MoU-17.09.2024
18	Juni Bavli	Gujarat	3x150	450	Off Stream	Open	GSECL			• UR - off stream & LR- exisiting ukai reservoir • Agency-GSECL •Date of MoA/MoU-17.09.2024
19	Satkashi	Gujarat	2x165	330	Off Stream	Closed	GSECL			• UR & LR- off stream • Agency-GSECL • Date of MoA/MoU-17.09.2024
20	Ukai	Gujarat	4x320 + 2x160	1600	Off Stream	Closed	Greenko			• UR- off stream & LR- off stream • Agency-GSECL • Target date of DPR Preparation-12/25
21	Kamod	Maharashtra	7X250 + 2X125	2000	Off Stream	Closed	Megha Engineering			• UR- off stream & LR- off stream • Agency-Megha engineering
22	Ghosla	Maharashtra	7 x 250 + 2 x 125	2000	Off Stream	Closed	Megha Engineering			• UR- off stream & LR- off stream • Agency-Megha engineering • Target date of DPR Preparation-03/26
23	Kalu Patti	Uttar Pradesh	5 x 200	1000	Off Stream	Closed	Renew Hydro			• UR- Off stream & LR-Off stream • Agency-Renew Hydro
24	Pawana Falyan	Maharashtra	8 x 300	2400	Off Stream	Closed	Avaada			• UR- Off stream & LR-off stream • Agency-Avaada
25	Longtarai	Tripura	4 x 200	800	Off Stream	Closed	NHPC			• UR- Off stream & LR-off stream
26	Gujjili	Andhra Pradesh	8 x 300	2400	Off Stream	Closed	NECL			• UR- Off stream & LR-off stream
27	Chittamvalasa	Andhra Pradesh	6 x 300	1800	Off Stream	Closed	NECL			• UR- Off stream & LR-off stream
28	Upper kolab	Odisha	4 x 150	600	Off Stream	Open	OHPL			• UR- Upper Kolab & LR- Off Stream • Agency-OHPC
29	Warasgaon warangi	Maharashtra	5x300	1500	Off Stream	Closed	Adani Green			•UR- proposed on minor nallah draining into Ambi river , LR- proposed on on minor nallah draining into Kal river •Agency-Adani Green •Date of MoA/MoU-28.06.2022
30	Raiwada	Andhra Pradesh	2x300+2x150	900	Off Stream	Closed	Adani Green			• UR on on a tabletop hill across a minor rivulet draining into a nallah & LR-across Sarada river • Agency-Adani Green Energy Ltd. •Date of MoA/MoU-23.05.2022
31	Howraghat	Assam		1500	Off Stream	Closed	Adani Green			•UR &LR- to be constructed newly •Date of MoA/MoU-24.07.2025
32	Moti Hojai	Assam		1200	Off Stream	Closed	Adani Green			•UR &LR- to be constructed newly •Date of MoA/MoU-26.8.2025
33	Adnadi	Maharashtra		1500	Off Stream	Closed	Adani Green			•UR &LR- to be constructed newly •Date of MoA/MoU-15.07.2025
	Sub-Total (Off-River)	33	Nos.	45350						
	Sub-Total (PSP Under S&I not in CEA)	34	Nos.	45850	MW					
	Total (Under S&I)	54	Nos.	76540	MW					
80	GRAND TOTAL			102555.60						