

As on 30.06.2024

STATUS OF PUMPED STORAGE DEVELOPMENT IN INDIA

Region/ State	ON RIVER		OFF RIVER		TOTAL	
	No of projects	Installed capacity (MW)	No of projects	Installed capacity (MW)	No of projects	Installed capacity (MW)
In Operation	8	4745.60			8	4745.60
Under Construction	4	2930	1	1200	5	4130.00
DPR concurred by CEA	1	1000			1	1000.00
Under Examination	-	-	-	-	-	-
Under S&I	4	5940	35	49990	39	55930.00
Grand Total	17	14615.60	36	51190	53	65805.6

STATUS OF ON-RIVER PUMPED STORAGE DEVELOPMENT IN INDIA
(Installed Capacity above 25 MW)

S.No.	SCHEMES	STATE	INSTALLED CAPACITY		REMARKS
			No. of units x Unit size(MW)	MW	
A. SCHEMES CONSTRUCTED					
a) Working in Pumping Mode					
1	Nagarjuna Sagar	Telangana	7x100.80	705.60	
2	Srisailem LBPH	Telangana	6x150	900	
3	Kadamparai	Tamil Nadu	4x100	400	
4	Bhira	Maharashtra	1x150	150	
5	Ghatgar	Maharashtra	2x125	250	
6	Purulia	West Bengal	4x225	900	
			Sub Total	3305.60	
b) Presently not working in Pumping Mode					
b) Presently not working in Pumping Mode					
1	Kadana	Gujarat	4x60	240	
2	Sardar Sarovar Project	Gujarat	6x200	1200	
			Sub total	1440	
8			Grand Total	4745.60	
B. SCHEMES UNDER CONSTRUCTION					
a) Under Active Construction					
1	Tehri St-II	Uttarakhand	4x250	1000	Likely commissioning by 2024-25 (Oct.'24)
2	Kundah (Stage I,II&III)	Tamil Nadu	4x125	500	Likely commissioning by 2025-26 (July 2025)
3	Upper Sileru	Andhra Pradesh	9 x 150	1350	Likely commissioning by 2028-29 (Feb 2029)
			Total	2850	
b) On which Construction is held up					
1	Koyna Left Bank	Maharashtra	2x40	80	
			Total	80	
4			Grand Total	2930	
C. DPR CONCURRED BY CEA					
1	Turga	West Bengal	4x250	1000	EC & FC-I obtained. FC-II -obtained
1			Total	1000	
D. SCHEMES UNDER SURVEY & INVESTIGATION					
I. Both Reservoirs to be constructed					
1	Bhavali	Maharashtra	6x250	1500	•UR-downstream of Bhavali Dam, LR-Ulhas •Target date of Preparation of DPR- 08/24 •Agency-JSW Energy •Date of MOA-14.09.2021
2	Savitri	Maharashtra	6x300	1800	•UR- proposed on the Koyna River (Tributary of Krishna River), LR-Proposed on the Savitri River near •Agency-NHPC •Target date of DPR preparation-02/25
			Sub-Total	3300	
II. Both Reservoirs Existing					
1	Sharavathy	Karnataka	8x250	2000	•Both Reservoirs are existing. Upper Reservoir is on Talakalale reservoir and Lower Reservoir is on Gerusappa reservoir(Existing Hydro Project) •Agency-KPCL •Target date of DPR preparation-12/24 •Date of MoA-07.12.2017
2	Indira Sagar	Madhya pradesh	6x80+1x45	640	•Upper reservoir-ISP reservoir , LR- Omkareshwar reservoir •Agency-NHDC •Target date of DPR preparation-06/24 •Date of MOA-07.06.2023
			Sub-Total	2640	
4			Total	5940	
17			GRAND TOTAL (On-river)	14615.60	

STATUS OF OFF-RIVER PUMPED STORAGE DEVELOPMENT IN INDIA
(Installed Capacity above 25 MW)

S.No.	SCHEMES	STATE	INSTALLED CAPACITY		REMARKS
			No. of units x Unit size(MW)	MW	
A. SCHEMES UNDER CONSTRUCTION					
1	Pinnapuram	Andhra Pradesh	4x240+2x120	1200	Likely commisiioning by 2024-25 (Dec 24)
1	TOTAL			1200	
B. SCHEMES UNDER SURVEY & INVESTIGATION					
I. One Reservoir Existing & One to be constructed					
1	Narihalla	Karnataka	2x150	300	<ul style="list-style-type: none"> •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- 09/24 • Agency- JSW Energy •Date of MOA-28.11.2022
2	Upper Indravati	Odisha	4x150	600	<ul style="list-style-type: none"> •Upper Reservoir is existing on Upper Indravati HEP reservoir (Exisiting Hydro Project) and Lower Reservoir is to be constructed. •Target date for preparation of DPR – 07/24 •Agency-OHPCL •Date of MOA-15.01.2014
3	Saundatti	Karnataka	320X4+160x2	1600	<ul style="list-style-type: none"> •Upper Reservoir is proposed Off Stream and Lower Reservoir is on RenukaSagar which is existing on Malaprabha river •Target date for preparation of DPR – 08/24 •Agency-Greenko •Date of MOA-12.03.18. Revised approval on 27.02.19
4	MP30 Gandhi Sagar	Madhya Pradesh	7x240+2x120	1920	<ul style="list-style-type: none"> •Upper Reservoir is proposed off the river and Lower Reservoir is exisiting on Gandhi Sagar which is on Chambal river •Target date of DPR preparation-07/24 •Agency-Greenko •Date of MOA-13.10.2021
5	Gandikota	Andhra Pradesh	7x240+2x120	1000	<ul style="list-style-type: none"> •Upper Reservoir is proposed Off Stream and Lower Reservoir is exisiting on Gandikota reservoir which is on Penna river •Target date of Preparation of DPR- 09/24 •Agency- Adani green energy •Date of MOA-29.06.2022
6	OWK	Andhra Pradesh	4x200	800	<ul style="list-style-type: none"> •Upper Reservoir is proposed Off Stream and Lower Reservoir is exisiting on Owk reservoir which is on Penna river •Target date of Preparation of DPR- 09/24 •Agency- Aurobindo Realty & Infrastructure Pvt. Ltd. •Date of MOA-12.09.2022
7	Chitravathi	Andhra Pradesh	2x250	500	<ul style="list-style-type: none"> •Upper Reservoir is proposed Off Stream and Lower Reservoir is exisiting on Chitravathi reservoir •Target date of Preparation of DPR- 07/24 •Agency-Adani Green Energy Ltd •Date of MOA-29.06.2022
8	Tarali	Maharashtra	5x300	1500	<ul style="list-style-type: none"> •Upper Reservoir is proposed Offstream and Lower Reservoir is existing Tarali reservoir •Target date of DPR preparation- 07/24 •Agency-Adani Green Energy Ltd. •Date of MOA-28.06.2022
9	Shirwata	Maharashtra	5x300 +2x150	1800	<ul style="list-style-type: none"> •Upper Reservoir is off stream and Lower Reservoir is existing Shirawata reservoir •Agency-TATA power •Target date of preparation of DPR- 09/24 •Date of MOA-08.08.2023
10	Bhivpuri	Maharashtra	4x200 +2x100	1000	<ul style="list-style-type: none"> •Upper Reservoir is existing Thokerwadi reservoir and Lower Reservoir is offstream. •Agency-TATA power •Target date of preparation of DPR-07/24 •Date of MOA-08.08.2023
10	Sub-Total			11020	
III. Both Reservoirs to be constructed					
1	Somasila	Andhra Pradesh	4x225	900	<ul style="list-style-type: none"> •Both Upper & Lower Reservoirs are proposed off stream • Target date of Preparation of DPR- 09/24 •Agency- Shirdi Sai Electricals Ltd. •Date of MOA-19.01.2023

S.No.	SCHEMES	STATE	INSTALLED CAPACITY		REMARKS
			No. of units x Unit size(MW)	MW	
2	Paidipalem East	Andhra Pradesh	6x200	1200	<ul style="list-style-type: none"> •UR- new proposed Off Stream , LR - new proposed draws water Paidipalem Balancing reservoir •Date of DPR preparation-09/24 •Agency-Indosol Solar Power Pvt. Ltd. •Date of MOA-12.09.2022
3	Singanamala	Andhra Pradesh	4x200	800	<ul style="list-style-type: none"> •UR- Off Stream, LR- Off Stream. •Date of DPR preparation-09/24 •Agency- Aurobindo Realty & Infrastructure Pvt. Ltd. •Date of MOA-12.09.2022
4	Sukhpura Off-Stream	Rajasthan	7x320 + 2x160	2560	<ul style="list-style-type: none"> •UR & LR-Off stream, Both Upper Reservoir & Lower Reservoirs are to be constructed.. •Target date for preparation of DPR – 12/24 •Agency- Greenco •Date of MOA-24.01.2023
5	Paidipalem North	Andhra Pradesh	5 x 200	1000	<ul style="list-style-type: none"> •UR- new proposed Off Stream , LR - new proposed draws water Paidipalem Balancing reservoir •Date of DPR preparation– 09/2024 •Agency-Indosol Solar Power Pvt. Ltd. •Date of MOA-12.09.2022
6	Shahpur	Rajasthan	5x300+2x150	1800	<ul style="list-style-type: none"> •Offstream closed loop, UR & LR -off stream •Target date of preparation of DPR- 08/24 •Agency-Greenko •Date of MOA-18.12.2021
7	Sirohi	Rajasthan	3x400	1200	<ul style="list-style-type: none"> • 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- 08/24 • Agency- JSW Energy •Date of MOA-24.01.2022 (acknowledgment letter to LOI)
8	Pane	Maharashtra	5x250+2x150	1500	<ul style="list-style-type: none"> •UR-Offstream LR-connected to a small stream which joins the downstream Kal river •Target date of preparation of DPR- 07/24 •Agency- JSW Energy •Date of MOA-29.09.2022
9	Veeraballi Off-stream	Andhra Pradesh	5x300+2x150	1800	<ul style="list-style-type: none"> •UR & LR- both off stream • Target date of preparation of DPR- 08/24 • Agency-Astha Green Energy Ventures India PVT. LTD. •Date of MOA-12.09.2022
10	vempalli	Andhra Pradesh	6x250	1500	<ul style="list-style-type: none"> • UR & LR- both off stream • Target date of preparation of DPR- 03/25 • Agency-JSW Energy •Date of MOA-25.01.2022
11	Kandhaura	Uttar Pradesh	5x280+2x140	1680	<ul style="list-style-type: none"> • UR & LR- both off stream • Target date of preparation of DPR- 12/24 • Agency-JSW Energy •Date of MOA-25.11.2022
12	UP01	Uttar Pradesh	11x305+2x152.5	3660	<ul style="list-style-type: none"> • UR & LR- both off stream • Target date of preparation of DPR- 08/24 • Agency-Greenko •Date of MOA-01.02.2023
13	Musakhand	Uttar Pradesh	2x200+2x100	600	<ul style="list-style-type: none"> • UR & LR- both off stream •Agency- ACME Urja Two Private Limited •Target date of DPR preparation-02/25 •Date of MOA-03.04.2023
14	Raiwada	Andhra Pradesh	2x300+2x150	900	<ul style="list-style-type: none"> • UR on on a tabletop hill across a minor rivulet draining into a nallah & LR-across Sarada river • Target date of preparation of DPR- 1/25 • Agency-Adani Green Energy Ltd. •Date of MOA-23.05.2022
15	Malshej Ghat Bhorande	Maharashtra	6 x 250	1500	<ul style="list-style-type: none"> • UR on Minor nallah draining into Kukadi river & LR-on Minor nallah draining Into Kalu river • Target date of preparation of DPR- 12/24 • Agency-Adani Green Energy Ltd. •Date of MoA- 28.06.2022
16	Yaganti	Andhra Pradesh	4x250	1000	<ul style="list-style-type: none"> • UR on Minor rivulet & LR-on Minor rivulet • Agency-APGENCO • Target date of preparation of DPR- 08/24 •Date of MOA-23.08.2023

S.No.	SCHEMES	STATE	INSTALLED CAPACITY		REMARKS
			No. of units x Unit size(MW)	MW	
17	Kamalapadu	Andhra Pradesh	3x238 +2x118	950	<ul style="list-style-type: none"> • UR & LR- both off stream • Agency-APGENCO • Target date of preparation of DPR- 08/24 • Date of MOA-23.08.2023
18	Warasgaon warangi	Maharashtra	5x300	1500	<ul style="list-style-type: none"> • 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-28.06.2022 • Target date of DPR Preparation-09/24
19	Aravetipalli	Andhra Pradesh	6x220	1320	<ul style="list-style-type: none"> • UR & LR- both off stream • Agency-APSPCL • Target date of DPR Preparation-08/24
20	Koyna Nivakane	Maharashtra	8x 300 + 2x150	2700	<ul style="list-style-type: none"> • UR & LR- minor rivulet draining into Kera River/ Koyna river • Agency- Adani Green • Target date of DPR Preparation-06/25
21	Rayavaram	Andhra Pradesh	5x250+2x125	1500	<ul style="list-style-type: none"> • UR & LR- on minor stream • Agency-NREDCAP • Target date of DPR preparation-06/25
22	Gadikota	Andhra Pradesh	4x240+2x120	1200	<ul style="list-style-type: none"> • UR & LR- off stream • Agency-APGENCO • Target date of DPR preparation-06/25
23	Nayagaon	Maharashtra	5x334+2x165	2000	<ul style="list-style-type: none"> • UR- Off Stream , LR- Minor Nallah Draining into Hivra river • Agency-Greenko • Date of MOA-16.01.2023 • Target date of DPR Preparation-06/25
24	Shoma	Uttar Pradesh	7x300+2x150	2400	<ul style="list-style-type: none"> • UR- Off Stream , LR- Off Stream • Agency-Torrent Power • Date of MOA-20.01.2023 • Target date of DPR Preparation-06/25
25	Pedakota	Andhra Pradesh	5x300+2x150	1800	<ul style="list-style-type: none"> • UR & LR- on minor stream draining into the Sarada River • Agency-Adani Green • Date of MOA-23.05.2022 • Target date of DPR Preparation-06/25
25	Sub-Total			38970	
35	TOTAL			49990	
36	GRAND TOTAL(Off-River)			51190.00	