

Summary of Hydro Power Development in Jammu and Kashmir

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		32	12264.5
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	10	3360
B	Projects under construction	5	3051.5
C	Projects concurred by CEA and yet to be taken up for construction#	4	3119
D	Projects returned to project authorities	1	390
E	Projects under S&I	2	1060
F	Balance Capacity*	9	1088

*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

In addition to this ,DPR of one project namely Ujh Multipurpose Project (196 MW) is accepted by 148th meeting of Advisory Committee of DOWR, RD&GR on Irrigation, Flood Control & Multipurpose on 17.01.2022 but the PIB doesn't support proposal of Department of Water Resources, River Department and Ganga Rejuvenation in respect of Ujh Multipurpose project.

I. Conventional Projects**Details of Exploitable Hydro Power Projects**

S.no	Name	River	Type	I.C. (MW)
1	Uri-I (Uri)	Jhelum	R	480
2	Uri-II (Uri)	Jhelum	R	240
3	Lower Jhelum	Jhelum	R(P)	105
4	Upper Sindh II & Ext.	Sindh nallah	R(P)	105
5	Kishanganga (Karalpur)	Kishanganga	R(P)	330
6	Dulhasti	Chenab	R(P)	390
7	Salal I & II (Salal)	Chenab	R	690
8	Baghlihar-I (Baglihar)	Chenab	R(P)	450
9	Baghlihar-II (Baglihar)	Chenab	R(P)	450
10	Sewa-II (Sewa)	Sewa	R(P)	120
11	Parnai	Suran	R	37.5
12	Ratle	Chenab	R (P)	850
13	Lower Kalnai	Kalnai	R	48
14	Pakaldul	Marusudar	S	1000
15	Kiru	Chenab	R	624
16	Kwar	Chenab	R (P)	540
17	Kirthai-II (Naunut)	Chenab	R (P)	930
18	Sawalkot	Chenab	R (P)	1856
19	New Ganderbal	Sindh Nallah	R (P)	93
20	Uri-I Stage-II (Uri)	Jhelum	R	240
21	Kishanganga-II (Wangam)	Kishanganga	R	42
22	Chandanwari-Laripura	Chandanwari	R	81
23	Gangbal	Kanknang	S	48
24	Kirthai-I (Sho)	Chenab	R (P)	390
25	Bursar MPP	Marusudar	S	800
26	Ujh	Ujh	S	196
27	Dulhasti-Stage II (Dulhasti)	Chenab	R	260
28	Shamnot	Chenab	R	330
29	Barinium	Chenab	R	180
30	Bichlari	Bichlari	R	64
31	Warddwan Bursar	Wardwan	S	255
32	Ans I	Ans	R	40
32	TOTAL			12264.5

A. H.E. Projects in Operation:

Sl.No.	UTILITY/ STATIONS	NO. OF STATIONS	NO. OF UNITS X CAPACITY (MW)	RIVER/BASIN*	DISTRICT	I.C. (MW)	Type (R/S/R(P))	Sector	YEAR OF COMMISSIONING
JKSPDC									
1	BAGLIHAR-I	1	(3X150)	CHENAB	RAMBAN	450	R(P)	State	2008
2	BAGLIHAR II	1	(3X150)	CHENAB	RAMBAN	450	R(P)	State	2015
3	LOWER JHELMUM	1	(3X35)	JHELMUM	BARAMULLAH	105	R(P)	State	1978-1979
4	UPPER SINDH-II	1	(3X35)	SINDH	GANDERBAL	105	R(P)	State	2000 -2002
	TOTAL JKSPDC	4				1110			
NHPC									
1	DULHASTI	1	(3X130)	CHENAB	KISTWAR	390	R(P)	Central	2007
2	SALAL - I&II	1	(6X115)	CHENAB	REASI & UDAMPUR	690	R	Central	1987-95
3	URI-I	1	(4X120)	JHELMUM	BARAMULA	480	R	Central	1996-1997
4	URI-II	1	(4X60)	JHELMUM	BARAMULA	240	R	Central	2013-14
5	SEWA-II	1	(3X40)	SEWA	MAHASKA	120	R(P)	Central	2010
6	KISHENGANGA	1	(3X110)	KISHENGANGA	BANDIPORA	330	R(P)	Central	2018
	SUB-TOTAL NHPC	6				2250			
10	TOTAL J&K	10				3360			

* ALL PROJECTS ARE IN INDUS BASIN.

B. H.E. Projects Under Construction:

Sl.No.	Name of Project	Agency	Basin	District	I.C. (MW)	Type (R/S/R(P))	Sector	Likely Commissioning
1	Pakal Dul	CVPPPL	Indus	Kishtwar	1000	S	Joint venture between NHPC and JKPDC	2026-27 (Sept'26)
2	Parnai	JKSPDC	Indus	Poonch	37.5	R	State	2027-28 (July'27)
3	Kiru	CVPPPL	Indus	Kishtwar	624	R	Joint venture between NHPC and JKPDC	2026-27 (Sept'26)
4	Ratle	RHEPPL / NHPC	Indus	Kishtwar	850.00	R(P)	Central	2026-27 (Dec'26)
5	Kwar	CVPPPL	Indus	Kishtwar	540.00	R(P)	Joint venture between NHPC and JKPDC	2027-28 (Dec'27)
5	Total				3051.5			

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage, MPP=Multipurpose project

D. H.E. Projects concurred by CEA and yet to be taken up for construction:

Sl No.	Name of Project	Agency	River	District	I.C. (MW)	Date of CEA Concurrence	Type (R/S/R(P))	Sector	Status
1	New Ganderwal	JKSPC	Sindh Nallah	Ganderwal	93	10.06.14	R(P)	State	EC accorded on 27.9.13 & FC accorded on 02.04.2012.. #
2	Kirthai-II	CVPPL	Chenab	Kishtwar	930	14.06.2019	R(P)	Joint Venture between NHPC and JKPDC	EC recommended by MoEF&CC on 15.04.2021. Application for FC (St-I) submitted on Parivesh Portal on 19.10.2022.. ###
3	Sawalkote	NHPC	Chenab	Ramban & Udhampur	1856	18.04.18	R(P)	Central	EC recommended by EAC in its meeting dated 31.01.2017. Formal letter will be issued after FC-I. (MoEF&CC delisted EC for the project on 04.08.2017 and further relisted on 24.01.2022). ####
4	Uri-I Stage-II HE Project	NHPC	Jhelum	Baramula	240	16.02.2023	R	Central	EC & FC yet to be obtained by developer#####
4	Total				3119				

Award of contract packages is under progress. PPA signed with State Government. Loan agreement to be signed with finances.

###Survey under process. The project was handed over to NHPC vide MoU signed on 03.01.21. The project will be executed by CVPPL (A JV of NHPC, JSKPDCL). CEA vide OM dated 29.12.2021 transferred the appraisal of Kirthai-II HEP in the name of M/s. CVPPL. CEA vide letter dated 29.08.2022 extended the validity of appraisal upto 13.06.2024.

07.04.2024. State Govt. (UT of J&K) raised EDS (Essential Details Sought) with regard to CA land dated 06.04.2024 stating that the areas proposed for carrying out the Compensatory Afforestation have been identified as Degraded Forest Land (DFL) instead of Non-degraded Forest Land (NFL) as mandated under Rule 13 of Van (Sanrakshan Evam Samadhan) Rule's 2023. FC yet to be obtained.

NOC under Wildlife Conservation Act, 1972 accorded by State Forest Dept. vide letter dated 03.01.2024

The project was handed over to NHPC vide MoU signed on 03.01.21. The project will be executed by NHPC on BOOT basis. Transfer of Appraisal of Sawalkote HE Project from M/s JKSPDC to M/s NHPC Ltd. and Extension of validity of Appraisal for further 3 years (i.e. beyond 18.04.2021 to 17.04.2024) on same terms & conditions as contained in OM 18.04.2018 was granted vide HPA letter dated 25.03.2022.

#####EC proposal submitted to MOEF&CC on 27.02.2024. EDS dated 11.03.2024 was raised by MOEF&CC seeking NOC required from PCCF with respect to project components are outside the boundary as defined in ESZ notification, for consideration of Environment Clearance. PCCF/WLW vide letter dated 14.05.2024 issued the necessary NOC.

REC has recommended the FC-I in its meeting held on 25.01.2024 and for forwarding to MoEF&CC for granting In-Principle approval . FC proposal was discussed by FAC on on 30.04.2024 and raised certain observations reg. basin study, CA land , etc. FC-I yet to be obtained.

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

E. H.E. Projects Returned to Project Authorities for re-submission after compliance of observations:

Sl. No.	Name of Project	Agency	I.C. (MW)	Type (R/S/R(P))	Sector	Month of Return
1	Kirthai -I	JKSPDC	390	R(P)	State	Jul'21
1	Total		390			

F. H.E. Projects Under Survey & Investigation:

Sl. No.	Name of Project	Basin/River	Agency for DPR	District	I.C. (MW)	Type (R/S/R(P))	Date of MoA	Sector	Target date of preparation of DPR
1	Dulhasti St-II	Indus/ Chenab	NHPC	Kishtwar	260	R	03.01.2021	Central	12/24
2	Bursar	Indus/ Marusudar	NHPC	Kishtwar	800	S		Central	
2	Total				1060				

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

G. Balance Capacity

Sl.No.	Name of Project	River	Type	I.C. (MW)	District	Remarks
1	Bichlari	Bichlari	R	64	Doda	
2	Kishenganga-II (Wangam)	Kishanganga	R	42	Bandipora	
3	Barinium (Shaus)	Chenab	R	180	Doda	
4	Chandanwari Laripora	Chandanwari	R	81	Anantnang	
5	Gangbal	Kanknang	S	48	Ganderbal	
6	Wardwan Bursar	Wardwan	S	255	Kisthwar	
7	Ans-I	Ans	R	40	Reasi	
8	Shamnot	Chenab	R	330	Doda	- Initially allotted to NHPC - Project held up as the project will submerge National Highway.
9	Lower kalnai	Chenab	R	48	Kishtwar	- Initially allotted to JKSPDC - Works on all fronts at Dam and Power House site are stalled since the contract has been terminated by JK Govt. order no. 115-PDD of 2019 dated 08.06.2019. The Balance Work stands tendered out by JKSPDC in EPC mode vide E-NIT on 24.03.2022. Technical evaluation of the bids is completed and financial bids are slated to be opened. Project is likely to be commissioned 4 years after restart of works.
9	Total			1088		

Note: R –Run of the River & S - Storage

Summary of Hydro Power Development in Ladakh

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		10	707
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	2	89
B	Projects under S&I	1	95
C	Balance Capacity*	8	618

*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

I. Conventional Projects

Details of Exploitable Hydro Power Projects

S. No	Name	River	Type	I.C. (MW)
1	Nimu Bazgo (Nimu)	Indus	R(P)	45
2	Chutak	Suru	R	44
3	Leh	Indus	R	67
4	Dumkhar	Indus	R	28
5	Khalsti	Indus	R	60
6	Achinthang-Sanjak (Achingthang + Kanyunche)	Indus	R	108
7	Parfila	Zaskar	S	102
8	Tahanus	Shingo	R	49
9	Ulitopo (Nurla)	Indus	R	48
10	Sunit (Batalik)	Indus	R	156
10	TOTAL			707

A. H.E. Projects in Operation:

Sl.No.	UTILITY/ STATIONS	NO. OF STATION S	NO. OF UNITS X CAPACITY (MW)	RIVER/BASIN*	DISTRICT	Type (R/S/R(P))	I.C.(MW)	Sector	YEAR OF COMMISSIONING
	NHPC								
1	CHUTAK	1	(4X11)	SURU/INDUS	KARGIL	R	44	Central	2012-13
2	NIMOO BAZGO	1	(3X15)	INDUS	LEH	R(P)	45	Central	2013
2	SUB-TOTAL NHPC	2					89		
	TOTAL LADAKH						89		

B. H.E. Projects Under Survey & Investigation:

Sl. No.	Name of Project	Agency for DPR	Basin/River	District	Type (R/S/R(P))	I.C. (MW)	Sector
1	Drass Suru Link Project	JKPDCL	Indus/Drass Suru	Kargil		95	State
1	Total					95	

C. Balance Capacity

Sl.No.	Name of Project	River	District	Type	I.C. (MW)
1	Parfila	Zaskar	Leh	S	102
2	Ulitopo (Nurla)	Indus	Leh	R	48
3	Khalsti (Khalsi)	Indus	Leh	R	60
4	Dumkhar	Indus	Leh	R	28
5	Achinthang-sanjak (Achingthang + Kanyunche)	Indus	Leh	R	108
6	Sunit (Batalik)	Indus	Kargil	R	156
7	Tahanus	Shingo	Kargil	R	49
8	Leh	Indus	Leh	R	67
8	Total				618

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

Summary of Hydro Power Development in Himachal Pradesh

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		72	18305
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	29	10281
B	Projects under construction	9	2446
C	Projects concurred by CEA and yet to be taken up for construction	4	937
D	Projects returned to project authorities	1	400
E	Balance Capacity*	29	4259

*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pump Storage Projects		6	7260
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	Balance Capacity	6	7260

I. Conventional Projects**Details of Exploitable Hydro Power Projects**

S.no	Name	River	Type	I.C. (MW)
1	Budhil	Budhil	R (P)	70
2	Bairasiul	Siul	R (P)	180
3	Chamera-I (Chamera)	Ravi	S	540
4	Chamera-II (Gwar)	Ravi	R(P)	300
5	Chamera-III (Hibra)	Ravi	R (P)	231
6	Chanju-I	Chanju nallah	R (P)	36
7	Bajoli Holi	Ravi	R	180
8	Allain Duhangan (Allain Nallah +Duhangan)	Allain	R (P)	192
9	Malana	Mallana Nallah	R (P)	86
10	Dehar (Pandoh Diversion Dam)	Beas	R (P)	990
11	Pong (Pong Dam)	Beas	S	396
12	Malana-II	Malana	R (P)	100
13	Parbati-III (Sainj-IV)	Sainj	R (P)	520
14	Sainj (Sainj Kartha-II+Sainj)	Sainj	R (P)	100
15	Larji	Beas	R (P)	126
16	Bassi & Extn.	Uhl	R (P)	66
17	Shanan Ext. (Uhl at Joginder Nagar)	Uhl	R(P)	110
18	Baspa(Baspa-II)	Baspa	R (P)	300
19	Karcham Wangtoo	Satluj	R (P)	1045
20	Sanjay (Bhabha (Sanjay))	Bhabha Khad	R(P)	120
21	Integrated Kashang	Kashang/Kirankhar	R (P)	195
22	Nathpa Jhakri	Satluj	R (P)	1500
23	Rampur (Rampur Nanjah)	Satluj	R	412
24	Kol Dam	Satluj	S	800
25	Bhakra Left (Bhakra Nangal)	Satluj	S	612

26	Bahkra right (Bhakra Nangal)	Satluj	S	785
27	Sorang	Sorang khar	R	100
28	Giri& Bata	Giri	R(P)	60
29	Sawara kudu	Pabar	R	111
30	Kutehr (Machhetri)	Ravi	R	240
31	Uhl III (Rana Khad)	Rana & Nerikhar	R	100
32	Parbati-II	Parbati	R	800
33	Dhauasidh	Beas	R	66
34	Tindong-I	Tidong	R	150
35	Shongtong Kharcham	Satluj	R	450
36	Luhri St-I (Luhri)	satluj	R	210
37	Chhatru	Chandra	R (P)	126
38	Miyar (Udaipur)	Miyar Nallah	R (P)	120
39	Dugar	Chenab	R (P)	500
40	Thana Plaun	Beas	R cum S	191
41	Baggi	Beas	R	42
42	Chango Yangthang	Spiti	R	180
43	Sunni (Sunni Chaba Dam)	Satluj	R(P)	382
44	Reoli Dugli (Raoli)	Chenab	R	456
45	Seli	Chenab	R (P)	400
46	Purthi	Chenab	R	232
47	Bardang	Chenab	R	175
48	Sach Khas	Sarchu	R	288
49	Gyspa	Bhaga	S	350
50	Kulu	Beas	R	52
51	Sainj-I	Sainj	R	68
52	Triveni Mahadev	Beas	R	50
53	Jangi thopan Powari (Jangi Thopan+Thopan Powari)	Satluj	R	804
54	Luhri St.-II (Luhri-II)	Satluj	R	172
55	Sumte Kothang (Thibda)	Spiti	R	50
56	Lara Sumte (kyurik)	Spiti	R	40
57	Yangthang khab	Spiti	R	158

58	Khab-I	Satluj	R	310
59	Khab-II	Satluj	R	150
60	Kashang Stage IV (Taiti-I)	Kashang & kerang	R	48
61	Shangling (Khoskar)	Chandra	R	35
62	Telling (Railing)	Chandra	S	65
63	Tandi Rashil (Jhalma)	Chenab	R	166
64	Chota Dara	Chandra	R	52
65	Lujai	Lujai Nallah	R	49
66	Tandi Rashil (Rashil)	Chenab	R	75
67	Chanju-III	Chanju nallah	R	48
68	Deothal Chanju	Chanju nallah	R	30
69	Surgani Sundla	Suil	R	48
70	Tangnu Romai-I	Pabar	R	44
71	Renukaji Dam	Giri	S	40
72	Baroti	Suil	S	30
72	TOTAL			18305

A. H.E. Projects in Operation:

S. NO.	UTILITY/STATIONS	NO. OF STNS.	NO. OF UNITS	NO. OF UNITS X CAPACITY (MW)	RIVER/ BASIN*	DISTRICT	I.C. (MW)	Type (R/S/R(P))	Sector	YEAR OF COMMISSIONING
	CENTRAL SECTOR									
	BBMB									
1	BHAKRA LEFT	1	5	(5x126)	SUTLEJ	BILASPUR	630	S	Central	1960-1961
2	BHAKRA RIGHT	1	5	(5X157)	SUTLEJ	BILASPUR	785	S	Central	1966-1968
3	DEHAR	1	6	(6X165)	BEAS	MANDI	990	R(P)	Central	1977-1983
4	PONG	1	6	(6X66)	BEAS	KANGRA	396	S	Central	1978-1983
	SUB-TOTAL BBMB	4	22				2801			
	NHPC									
5	BAIRA SIUL	1	3	(3X60)	SIUL	CHAMBA	180	R(P)	Central	1980-1981
6	CHAMERA- I	1	3	(3X180)	RAVI	DALHOUSIE	540	S	Central	1994
7	CHAMERA- II	1	3	(3X100)	RAVI	CHAMBA	300	R(P)	Central	2003-2004
8	CHAMERA- III	1	3	(3X77)	RAVI	CHAMBA	231	R(P)	Central	2012
9	PARBATI-III	1	4	(4X130)	SAINJ	KULLU	520	R(P)	Central	2014
	SUB-TOTAL NHPC	5	16				1771			
	SJVNL									
10	NATHPA JHAKRI	1	6	(6X250)	SATLUJ	SHIMLA	1500	R(P)	Central	2003-2004
11	RAMPUR	1	6	(6X68.67)	SATLUJ	SHIMLA	412	R	Central	2014
	SUB-TOTAL SJVNL	2	12				1912			
	NTPC LTD.									
12	KOLDAM	1	4	(4X200)	SATLUJ	BILASPUR	800	S	Central	2015
	SUB-TOTAL NTPC LTD.	1	4				800			
	TOTAL CENTRAL SECTOR	12	54				7284			
	STATE SECTOR									
	HPSEBL									
13	BASSI	1	4	(4X16.5)	UHL	MANDI	66	R(P)	State	1970-1981
14	GIRI BATA *	1	2	(2X30)	GIRI	SIRMAUR	60	R(P)	State	1978
15	LARJI	1	3	(3X42)	BEAS	KULLU	126	R(P)	State	2006
16	SANJAY	1	3	(3X40)	Bhabha Khad	KINNAUR	120	R(P)	State	1989
	TOTAL HPSEBL	4	12				372			
	HPPCL									
17	INTEGRATED KASHANG	1	3	(3X65)	Kashang/Kiran khar	KINNAUR	195	R (P)	State	2016-17
18	SAINJ	1	2	(2X50)	SAINJ	KULLU	100	R(P)	State	2017

19	SWARA KUDDU	1	3	(3X37)	Pabbar/Tons/ Yamuna	SHIMLA	111	R	State	2020
	TOTAL HPPCL	3	8				406			
	PSPCL									
20	SHANAN (Uhl at Joginder Nagar)	1	5	(1X50)+ (4X15)	UHL & Lamba Dug River	MANDI	110	R(P)	State	1932-1982
	TOTAL PSPCL	1	5				110			
	TOTAL STATE	8	25				888			
	PRIVATE SECTOR									
	MPCL									
21	MALANA	1	2	(2X43)	MALANA	KULLU	86	R(P)	Private	2001
	TOTAL MPCL	1	2				86			
	GBHPPL									
22	BUDHIL	1	2	(2X35)	BUDHIL	CHAMBA	70	R(P)	Private	2012
	TOTAL GBHPPL	1	2				70			
	EPPL									
23	MALANA-II	1	2	(2X50)	MALANA	KULLU	100	R(P)	Private	2011-12
	TOTAL EPPL	1	2				100			
	IA ENERGY									
24	CHANJU-I	1	3	(3X12)	Chanju nallah	CHAMBA	36	R(P)	Private	2017
	TOTAL IA ENERGY	1	3				36			
25	ALLAIN DUHANGAN	1	2	(2X96)	ALLAIN NALLAH	MANALI	192	R(P)	Private	2010
	TOTAL ADHPL	1	2				192			
	HBPCL									
26	BASPA	1	3	(3X100)	BASPA	KINNAUR	300	R(P)	Private	2003
27	KARCHAM WANGTOO	1	4	(4X261.25)	SATLAJ	KINNAUR	1045	R(P)	Private	2011 (1000 MW)
	TOTAL JSWHEL	2	7				1345			
	HSPPL									
28	Sorang	1	2	2x50	Sorang	Kinnaur	100	R	Private	2021 (100 MW)
	GMR BAJOLI HOLI HYDRO POWER PVT. LTD.									
29	Bajoli Holi	1	3	3x60	Ravi	CHAMBA	180	R	Private	2022
	TOTAL PVT	9	23				2109			
29	TOTAL HP	29	102				10281			

* ALL PROJECTS EXCEPT GIRI BATA & SWARA KUDDU (GANGA BASIN) ARE IN INDUS BASIN

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

B H.E. Projects Under Construction:

Sl. No.	Name of Project	Agency	District	River	Basin	I.C. (MW)	Type (R/S/R(P))	Sector	Likely Commissioning
1	Parbati St--II	NHPC	Kullu	Parbati/Beas	Indus	800	R	Central	2024-25 (Jan'25)
2	Uhl- III	Beas Valley Power Corp. Ltd. (BVPC)	Mandi	Uhl	Indus	100	R	Central	2024-25 (Dec'24)
3	Tidong-I	Statkraft IPL	Kinnaur	Tidong	Indus	150	R	Private	2025-26 (Oct'25)
4	Shontong Karcham	HPPCL	Kinnaur	Satluj	Indus	450	R	State	2026-27 (Feb'27)
5	Kutehr	JSW Energy (Kutehr) Power Ltd. (JSWEPL)	Chamba	Ravi	Indus	240	R	Private	2025-26 (April'25)
6	Luhri St.I	SJVNL	Shimla/Kullu	Satluj	Indus	210	R	Central	2027-28 (June'27)
7	Dhaulasidh	SJVNL	Hamirpur/Kangra	Beas	Indus	66	R	Central	2026-27 (May'26)
8	Sunni Dam	SJVNL	Shimla/Mandi	Satluj	Indus	382	R(P)	Central	2028-29 (April'28)
9	Chanju-III	HPPCL	Chamba	Chanju Nallah	Indus	48.00	R	Central	2027-28 (July'27)
9	Total					2446			

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

C. H.E. Projects concurred by CEA and yet to be taken up for construction:

Sl. No.	Name of Project	Agency	River	District	I.C. (MW)	Date of CEA Concurrence	Type (R/S/R(P))	Sector	Status
1	Miyar	NTPC	Miyar Nallah	Lahul & Spiti	120	07.02.2013	R(P)	Central	EC accorded on 30.07.12. FC-I accorded on 27.07.12. FC-II yet to be obtained. FRA compliance under process #
2	Chhatru	DSIL	Chandra	Lahaul-Spiti	126	15.01.15	R(P)	Private	EC recommended by EAC on 24.02.15, Letter will be issued after FC-I. FC-I & FC-II yet to be obtained. . ###
3	Thana Plaun	HPPCL	Beas	Mandi	191	07.09.2021	R cum S	State	EAC in its meeting dated 27.11.2018 has recommended Environmental Clearance (EC) to MoEF&CC subject to condition of Stage-I FC and adherence to the condition of Cumulative EIA study of Beas Basin. FC Stage-I accorded by MoEF&CC on 11.01.2024 . FC-II yet to be obtained.####
4	Dugar	NHPC	Chenab	Chamba	500	26.04.22	R(P)	central	EC recommended by EAC on 06.09.2022. Application for diversion of 211.84 ha of forest land was submitted by NHPC in the Parivesh Portal of MoEF&CC on 20.02.2021. State Govt. had forwarded the proposal to MoEF&CC, New Delhi on 04.07.2022. The proposal has been discussed in the FAC meeting held on 29.11.2023. FC yet to be obtained
4	Total				937				

Note: All projects are in Indus basin

#MoU was signed between Government of Himachal Pradesh and NTPC Ltd. on 25.10.2019 to set-up the hydro project. Validity of Concurrence to the project expired on 07.02.2016. GoHP vide letter dated 25.07.2022 cancelled allotment of the project to NTPC.

###Govt of Himachal Pradesh vide its letter dated 3.10.2019 has since cancelled allotment of Chhatru HEP which was allotted on 28.7.2007 to M/S DCM Shriram Infrastructure limited, and terminated the Pre- Implementation Agreement (PIA) signed on 15.2.2008. Further, validity of Concurrence to project expired on 15.01.2020

CAT Plan has been approved by Government of Himachal Pradesh on 03.01.2019. Social Impact Assessment (SIA) study for acquisition of Private land has been completed and approved from GoHP vide notification dated 16.12.2020.

D. Projects returned to project authorities

Sl. No.	Name of Project	Agency	I.C. (MW)	Type (R/S/R(P))	Month of Return
1	Seli	SHPCCL	400	R(P)	May-19
1	Total		400		

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

E. Balance Capacity

Sl.No.	Name of Project	River	Type	I.C. (MW)	Reamrks
1	Kashang Stage-IV (Taiti-I)	Chenab	R	48	
2	Baroti	Siul	S	30	
3	Chhota Dara	Chandra	R	52	
4	Shangling (Khoskar)	Chandra	R	35	
5	Telling (Railing)	Chandra	S	65	
6	Kulu	Beas	R	52	
7	Sainj-I	Sainj	R	68	
8	Yangthang Khab	Spiti	R	158	
9	Lujai	Lujai Nallah	R	49	
10	Renukaji Dam	Giri	S	40	
11	Triveni Mahadev	Beas	R	50	
12	Baggi	Beas	R	42	
13	Deothal Chanju	Chanju Nallah	R	30	
14	Sugani Sundla	Suil	R	48	
15	Chango Yangthang	Spiti	R	180	
16	Sumte Khotang	Spiti	R	50	- Initially allotted to Reliance Power Ltd. (M/s Sumte Kothang HPPL) - Project was in S&I held up due to opposition from locals and NGOs. - Project stands terminated on 28.07.2017.
17	Lara Sumte	Spiti	R	40	- Initially allotted to Reliance Power Ltd. (M/s Sumte Kothang HPPL) - Project was in S&I held up due to opposition from locals and NGOs. - Project stands terminated on 28.07.2017.
18	Purthi	Chenab	R	232	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
19	Bardang	Chenab	R	175	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
20	Sach khas	Sarchu	R	288	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
21	Reoli Dugli HEP	Chenab	R	456	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer

22	Khab-I	Satluj	R	310	Govt. of HP has confirmed the TWL of Upstream project i.e. Yangthang Khab and FRL of Downstream project Jhangi Thopan vide letter dated 15.06.2017. Accordingly a revised PFR for Khab HEP is being prepared considering the scheme to be single stage RoR and considering the virgin stretch of river as per MoEF&CC guidelines.
23	Khab-II	Satluj	R	150	
24	Jangi Thopan Powari	Satluj	R	804	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
25	Luhri St.-II	Satluj	R	172	SJVN vide letter dt. 01.09.23 informed that domain allotment is pending with GoHP and layout of the project could not be finalized.
26	Gyspa Dam	Bhaga	S	350	Project held up due to sustained opposition from local people.
27	Jhalma	Chenab	R	166	Developer vide letter dt. 01.09.23 has informed that no significant progress has been made in S&I work as locals have been resisting entry into project area since March,2022
28	Rashil	Chenab	R	75	
29	Tangu Romai	Pabar	R	44	Works on hold since Aug 2016. Funds constraints with the developer. Project is likely to be commissioned 4 years after restart of works.
29	Total			4259	

Note: R –Run of the River & S- Storage

II. Pumped Storage Projects

Exploitable Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Majra	Kangra	700
2	Renukaji (Renuka)	Sirmaur	1630
3	Dhauasidh(Sadda)	Hamirpur	180
4	Koldam PSP-I &II		2400
5	Lehri	Bilaspur	850
6	Raipur/Dobar Uparla	Una	1500
6	TOTAL		7260

a. Balance Capacity

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Majra	• Indicated by MoP to BBMB	Kangra	Sarhyali Khad	Govind Sagar	700	Yet to be allotted by the State for development
2	Renukaji (Renuka)	•HPPCL (Himachal Pradesh Power Corporation Ltd.)	Sirmaur	Jogar ka Khala	Dadahu Storage	1630	Preliminary Report Prepared
3	Dhauasidh(Sadda)	•Indicated by MoP to SJVNL	Hamirpur	at Sadda (in a Depression)	Dhauasidh HEP Reservoir (for both the alternatives)	180	•Yet to be allotted by the State for development •PFR Prepared
4	Koldam PSP-I &II	•Indicated by MoP to NTPC(self identified)	Bilaspur	to be constructed (off Stream)	Koldam reservoir	2400	•Yet to be allotted by the State for development •PFR Prepared
5	Lehri	Indicated by MoP to BBMB(self identified)	Bilaspur		Bhakra reservoir	850	Yet to be allotted by the State for development
6	Raipur/Dobar Uparla	•Indicated by MoP to BBMB(self identified)	Una	To be constructed	Bhakra reservoir	1500	•Yet to be allotted by the State for development •PFR Prepared
6	Total					7260	

Summary of Hydro Power Development in Punjab

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		10	1300.73
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	9	1096.3
B	Projects under construction	1	206

I. Conventional Projects

Details of Exploitable Hydro Power Projects				
S.no	Name	River	Type	I.C. (MW)
1	Ranjit Sagar Dam (Thein)	Ravi	S	600
2	Shahpurkhandi (Shahpur)	Ravi	R	206
3	Mukerian Phase I	Tail water of pong dam	R	45
4	Mukerian Phase II	Tail water of pong dam	R	45
5	Mukerian Phase III	Tail water of pong dam	R	58.5
6	Mukerian Phase IV	Tail water of pong dam	R	58.5
7	Anandpur Sahib-I	AHC (Canala)	R	67
8	Anandpur Sahib-II	AHC (Canala)	R	67
9	Kotla	Satluj	R	77.34
10	Ganguwal	Satluj	R	76.39
10	TOTAL			1300.73

A. H.E. Projects in Operation:

S.No	UTILITY/ STATIONS	NO. OF STATIONS	NO. OF UNITS X CAPACITY (MW)	RIVER/ BASIN*	DISTRICT	I.C. (MW)	Type (R/S/R(P))	Sector	YEAR OF COMMISSIONING
PSPCL									
1	ANANDPUR SAHIB-I	1	(2X33.5)	AHC (CANAL)	RUPNAGAR	67	R	State	1985
2	ANANDPUR SAHIB-II	1	(2X33.5)	AHC (CANAL)	RUPNAGAR	67	R	State	1985
3	MUKERIAN-I	1	(3X15)	TAIL WATER OF PONG DAM	HOSHIARPUR	45	R	State	1983
4	MUKERIAN-II	1	(3X15)	TAIL WATER OF PONG DAM	HOSHIARPUR	45	R	State	1988-89
5	MUKERIAN-III	1	(3X19.5)	TAIL WATER OF PONG DAM	HOSHIARPUR	58.5	R	State	1989
6	MUKERIAN-IV	1	(3X19.5)	TAIL WATER OF PONG DAM	HOSHIARPUR	58.5	R	State	1989
7	RANJIT SAGAR	1	(4X150)	Reservoir on River Ravi	PATHANKOT	600	S	State	2000
	TOTAL PSPCL	7				941			
BBMB									
8	GANGUWAL	1	(2X24.2)+ (1X29.25)	SATLUJ	RUPNAGAR	Type (R/S/R(P))	R	Central	1955-1962
9	KOTLA	1	(2X24.2)+ (1X29.25)	SATLUJ	RUPNAGAR	77.65	R	Central	1956-1961
	SUB-TOTAL BBMB (PUNJAB)	2				155.3			
9	TOTAL PUNJAB	9				1096.3			

* ALL PROJECTS ARE IN INDUS BASIN

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

B. H.E. Projects under Construction:

Sl. No.	Name of Project	Implementing Agency	River /Basin	District	I. C. (MW)	Type (R/S/R(P))	Sector	Likely Commissioning
1	Shahpurkandi	Irr. Deptt. & PSPCL	Ravi /Indus	Gurdaspur	206	R	State	2025-26 (Jan 26)
1	Total				206			

Summary of Hydro Power Development in Haryana

I. Conventional Projects

	Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)	-	-
Additional Project identified after reassessment study		
a) Projects Under S&I	1	250

Projects Under S&I

Sl. No.	Name of Project	River	I.C. (MW)	Agency	Type
1	Hathnikund Dam Project	Yamuna	250	Irrigation & Water Resources Department, Haryana	S
1	Total		250		

Summary of Hydro Power Development in Rajasthan

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		4	411
Breakup of Hydro Power Potential (2017-23 study)			
A	Projects in operation	4	411

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pump Storage Projects		7	9200
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	Projects Under Survey & Investigation	4	6160
b	Balance capacity	3	3040

I. Conventional Projects				
Details of Exploitable Hydro Power Projects				
S.No.	Name	River	Type	I.C. (MW)
1	Rana Pratap Sagar	Chambal	S	172
2	Jawahar Sagar	Chambal	R(P)	99
3	Mahi Bajaj-I	Mahi	S	50
4	Mahi Bajaj-II	Mahi	R (P)	90
4	Total			411

A. H.E. Projects in Operation:

SL. NO.	UTILITY/ STATIONS	NO. OF STATION S	NO. OF UNITS X CAPACITY (MW)	RIVER	BASIN	DISTRICT	I.C. (MW)	Type (R/S/R(P))	Sector	YEAR OF COMMISSIONING
RRVUNL										
1	JAWAHAR SAGAR	1	(3X33)	CHAMBAL	GANGA	BUNDI	99	R(P)	State	1972-1973
2	R P SAGAR	1	(4X43)	CHAMBAL	GANGA	CHITTORGARH	172	S	State	1968
3	Mahi Bajaj-I	1	2	Mahi	CIR	BANSWARA	50.00	MP	State	1986 (50 MW)
4	Mahi Bajaj-II	1	2	Mahi	CIR	BANSWARA	90.00	R(P)	State	1989 (90 MW)
4							411			

Note-Gandhi Sagar (115 MW) is In Operation in the state of Madhya Pradesh

II. Pumped Storage Projects

Exploitable Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Sukhpura Off-Stream	Chittorgarh	2560
2	Shahpur	Baran	1800
3	Sirohi	Sirohi	1200
4	Rana Pratap Sagar	chittorgarh	1200
5	Semaliya-II	chittorgarh	1200
6	Brahmani	Chittorgarh	600
7	Sirohi	Kolhapur	640
7	TOTAL		9200

a. PSP under Survey & Investigation

[illegible]

b. Balance Capacity

S.No.	SCHEMES	Agency	River		District	I.C. (MW)	Remarks
			Upper Reservoir	Lower Reservoir			
1	Rana Pratap Sagar	Semaliya Energy Private Limited			chittorgarh	1200	•Proposal not yet received in CEA • Agency- Semaliya Energy Private Limited •Date of grant of TOR-24.01.2022
2	Semaliya-II	Semaliya Energy Private Limited			chittorgarh	1200	•Proposal not yet received in CEA • Agency- Semaliya Energy Private Limited •Date of grant of TOR-07.06.2023
3	Sirohi	Sasa Stone Private Limited			Kolhapur	640	•Proposal not yet received in CEA • Agency- Sasa Stone Private limited •Date of grant of TOR-13.06.2023
3	Total					3040	

Summary of Hydro Power Development in Uttarakhand

I. Conventional Projects

		Nos.	I.C.(MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		55	13481.35
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	19	4035.35
B	Projects under construction	3	1264
C	Projects concurred by CEA/State Govt. #	3	815
D	Projects returned to project authorities	7	939
E	Projects under S&I	1	660
F	Balance Capacity*	22	3988

*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

#In addition to above,for one project namely Sirkari Bhyol Rupsiabagar,it has been initmated by UJVNL that total cost has been estimated at Rs. 964.12crore at price level of March 2023 and as per Section 8(1) of Electricity Act ,M/S UJVNL is required to submit the DPR to State Government

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pump Storage Projects		1	1000
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	Under Construction	1	1000

I. Conventional Projects**Details of Exploitable Hydro Power Projects**

S No.	Name of the Project	River	Type	I.C. (MW)
1	Chibro	Tons	R (P)	240
2	Khodri	Tons	R (P)	120
3	Vyasi (Lakhwar Vyasi-II)	Yamuna	R (P)	120
4	Dhakrani	Yamuna	R	33.75
5	Dhalipur	Yamuna	R	51
6	Kulhal	Tons	R	30
7	Maneri Bhalli-I	Bagirathi	R (P)	90
8	Maneri Bhalli-II	Bagirathi	R (P)	304
9	Tehri	Bagirathi	S	1000
10	Koteswar	Bagirathi	R(P)	400
11	Chilla (Rishikesh Hardwar)	Ganga	R	144
12	Vishnu Prayag	Alaknanda	R	400
13	Singoli Bhatwari (Mandakini)	Mandakini	R	99
14	Srinagar	Alaknanda	R (P)	330
15	Ramganga	Ramganga	S	198
16	Tanakpur	Sarda	R	94.2
17	Khatima	Sarda	R	41.4
18	Dhauliganga (Khet Tawaghat)	Dhauliganga	R (P)	280
19	Naitwar Mori	Tons	R (P)	60
20	Lata Tapovan	Dhauliganga	R	171
21	Tapovan Vishnugad (Tapoban Chunar)	Dhauliganga	R	520
22	Vishnu Gad Pipalkoti	Alaknanda	R	444
23	Phata Byung	Mandakini	R	76
24	Jakhol Sankari	Supin	R	44
25	Goriganga IIIA (Devibagar Khartoli)	Goriganga	R	150
26	Bowala Nand Prayag	Alaknanda	R	300
27	Pancheswar MPP (Pancheshwar-I)	Sarda	S	2400
28	Rupaligad Regulating Dam (Pancheshwar-II)	Sarda	S	120
29	Kishau Dam	Tons	S	660
30	Lakhwar MPP (Lakhwar Vyasi-I)	Yamuna	S	300

31	Kuwa ford	Yamuna	R	106
32	Arakot Tiuni (Nakot Patlasu)	Tons	R	100
33	Tiuni Plasu (Tuini)	Tons	R	62
34	Mori Hanol (Ugmir)	Tons	R	26
35	Hanol Tiuni	Tons	R	62
36	Nand Prayag Langasu	Alaknanda	R	106
37	Uttyasu Dam	Alaknanda	S	720
38	Bampa Kurkuti	Dhauli Ganga	R	31
39	Jhelum Tamak	Dhauliganga	R (P)	135
40	Tamak Lata	Dhauliganga	R	130
41	Tikh Kunwargarh (Tikh Gurupha)	Pindar	R	82
42	Bagoli Dam	Pindar	R	126
43	Devasari Dam	Pindar	R	164
44	Garba Tawaghat	Sarda	R	398
45	Tawaghat Dharchula	Sarda	R	470
46	Kalika Dantu	Sarda	R	190
47	Bokang Bailing	Dhauliganga	R	192
48	Chunger Chal	Dhauliganga	R	130
49	Sela Urthing	Dhauliganga	R	126
50	Urthing Sobla	Dhauli Ganga	R	228
51	Sobala Jhimirigaon	Dhauli Ganga	R	118
52	Mapang Bogidiyar	Goriganga	R	280
53	Bogidiyar Sirkaribhyol	Goriganga	R	100
54	Sirkari Bhyol Rupsiyabagar	Goriganga	R	135
55	Ramganga Dam	Ram Ganga	S	44
55	TOTAL			13481.35

A. H.E. Projects in Operation:

S. NO.	UTILITY/ STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER	DISTRICT	I.C. (MW)	Type (R/S/R(P))	Sector	YEAR OF COMMISSIONING
	CENTRAL SECTOR								
	NHPC								
1	DHAULI GANGA	1	(4X70)	DHAULIGANGA	PITHORAGARH	280	R(P)	Central	2005
2	TANAKPUR	1	(3X31.4)	SARDA	CHAMPAVAT	94.2	R	Central	1992
	SUB-TOTAL NHPC	2				374.2			
	THDC								
3	TEHRI ST-I	1	(4X250)	BHAGIRATHI	TEHRI GARHWAL	1000	S	Central	2006-2007
4	KOTESHWAR	1	(4X100)	BHAGIRATHI	TEHRI GARHWAL	400	R(P)	Central	2010-12
	TOTAL THDC	2				1400			
	SJVNL								
5	Naitwar Mori	1	2X30	Tons/ Yamuna	Uttarkashi	60	R	Central	2023
	SUB-TOTAL	1				60			
	SUB TOTAL CENTRAL	4				1834.2			
	STATE SECTOR								
	UJVNL								
6	CHIBRO (YAMUNA)	1	(4X60)	Tons River at Ichari Dam	DEHRADUN	240	R(P)	State	1975-1976
7	CHILLA	1	(4X36)	GANGA	HARIDWAR	144	R	State	1980-1981
8	DHAKRANI	1	(3X11.25)	Tons & Yamuna Rivers at Dakpathar Barrage	DEHRADUN	33.75	R	State	1965-1970
9	DHALIPUR	1	(3X17)	Tons & Yamuna Rivers at Dakpathar Barrage	DEHRADUN	51	R	State	1965-1970
10	KHATIMA	1	(3X13.8)	SHARDA	UDHAM SINGH NAGAR	41.4	R	State	1955-1956
11	KHODRI	1	(4X30)	TONS	DAK PATHAR	120	R(P)	State	1984
12	KULHAL	1	(3X10)	TONS	DEHRADUN	30	R	State	1975
13	MANERI BHALI- I	1	(3X30)	BHAGIRATHI	UTTARKASHI	90	R(P)	State	1984
14	MANERI BHALI- II	1	(4X76)	BHAGIRATHI	UTTARKASHI	304	R(P)	State	2008
15	RAMGANGA [RAMGANGA DAM (KALAGARH)]	1	(3X66)	RAMGANGA	PAURI GARHWAL	198	S	State	1975-1977
16	VYASI	1	(2x60)	YAMUNA/GANGA	DEHRADUN	120	R(P)	State	22.04.2022 (U#2) 24.05.2022 (U#1)
	TOTAL UJVNL	11				1372.15			
	PRIVATE								
	AHPC								
17	SHRINAGAR	1	(4X82.50)	ALAKNANDA	PAURI GARHWAL	330	R(P)	Private	2015
	JPPVL								
18	VISHNU PRAYAG	1	(4X100)	ALAKNANDA	CHAMOLI	400	R	Private	2006
	ReNew Power								
19	SINGOLI BHATWARI	1	(3X33)	Mandakini	RUDRAPRAYAG	99	R	Private	2020
	SUB TOTAL	3				829			
19	TOTAL UTTARAKHAND	18				4035.35			

Note: ALL PROJECTS ARE IN GANGA BASIN**Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage**

B. H.E. Projects under Construction:

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	Type (R/S/R(P))	Sector	Likely Commissioning
1	Vishnugad Pipalkoti	THDC	Chamoli	444	Alaknanada	Ganga	R	Central	2026-27 (Dec'26)
2	Tapovan Vishnugad	NTPC	Chamoli	520	Dhauliganga	Ganga	R	Central	2028-29 (Mar'29)
3	Lakhwar MPP	UJVNL	Dehradun & Tehri Garhwal	300	Yamuna	Ganga	S	Central	2028-29 (Oct'28)
3	Total			1264					

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

C. H.E. Projects concurred by CEA and yet to be taken up for construction:

Sl. No.	Name of Project	River	Agency	District	I.C. (MW)	Type (R/S/R(P))	Sector	Status
1	Kotlibhel St-IA	Bhagirathi	NHPC	Tehri Garhwal	195	R	Central	EC accorded on 9.05.07. However, NHPC vide email dated 02.04.2021 furnished that EC expired in May'2012 FC-I accorded on 13.10.11 & for FC-II, Compliance Report is awaited from State Govt. However, NHPC vide email dated 02.04.2021 furnished that FC-I expired in Oct'2016. .#
2	Kotlibhel St-IB	Alaknanda	NHPC	Pauri & Tehri Garhwal	320	R	Central	EC accorded earlier by MoEF&CC on 14.08.07 was quashed by NEEA on 15.09.2010. Thereupon MoEF&CC withdrew the EC on 22.11 2010. MoEF&CC declined FC-I on 7.07.11..##
3	Alaknanda (Badri Nath)	Alaknanda	GMR	Chamoli	300	R	Private	EC accorded on 12.3.08. FC-I accorded on 8.11.11. FC-II accorded on 09.11.2012. The project is included in the list of 24 projects under review by Hon'ble Supreme Court. Validity of Concurrence expired on 07.08.2019.
3	Total				815			

The project is included in the list of 24 projects under review by Hon'ble Supreme Court. Hon'ble Supreme Court vide order dated 13.08.2013 directed the MoEF&CC as well as State of Uttarakhand not to grant any further Environmental Clearance for any hydropower projects in the State of Uttarakhand until further orders. In compliance to the above order, MoEF & CC constituted an Expert Body vide order dated 12.05.2015. Expert Body has recommended, in its report to MoEF&CC issued in Sept, 2017, that the project should operate to run one turbine continuously during lean season to minimize peaking impact at Devprayag. Hon'ble Supreme Court vide order dated 24.11.2015 directed MoP, MoEF&CC and MoWR to arrive at a common policy framework amongst three ministries which is yet to be formulated.

M/s. NHPC vide letter dated 22.10.2021 informed that the project has been closed w.e.f. 01.04.2021 vide NHPC office order dated 12.04.2021. Further, MoEF&CC has filed the affidavit dated 17.08.2021 before Hon'ble Supreme Court of India incorporating the responses of MoP and MoJS. It has been mentioned in the affidavit that there is consensus on only 7 projects, where substantial progress and sizeable investment have already been made, for implementation amongst the three Ministries and the Govt. of Uttarakhand. Kotlibhel- 1A HE Project of NHPC does not figure in this list.

##The project is included in the list of 24 projects under review by Hon'ble Supreme Court. Hon'ble Supreme Court vide order dated 13.08.2013 directed the MoEF&CC as well as State of Uttarakhand not to grant any further Environmental Clearance for any hydropower projects in the State of Uttarakhand until further orders. Further, MoEF&CC has filed the affidavit dated 17.08.2021 before Hon'ble Supreme Court of India incorporating the responses of MoP and MoJS. It has been mentioned in the affidavit that there is consensus on only 7 projects, where substantial progress and sizeable investment have already been made, for implementation amongst the three Ministries and the Govt. of Uttarakhand. Kotlibhel- 1B HE Project of NHPC does not figure in this list.

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

D. Hydro Projects Returned to Project Authorities for re-submission after compliance of observations:

Sl. No.	Name of Project	River	Agency	Sector	Type (R/S/R(P))	I.C. (MW)	Month of Return
1	Nand Prayag Langasu	Alaknanda	UJVNL	State	R	100	Apr-11
2	Mori Hanol	Tons	KKHPL	Private		63	Feb-10
3	Bogudiyar Sirkari Bhyol	Gori Ganga	GGHPL	Private	R	146	Sep-10
4	Tiuni Plasu	Tons	UID	State	R	72	Oct-10
5	Jhelum Tamak	Dhauliganga	THDCIL	Central	R(P)	108	Aug-19
6	Bowala Nand Prayag	Alaknanda	UJVNL	State	R	300	Sep-22
7	Goriganga-IIIA	Goriganga	NHPC	Central	R	150	Jan-21
7	Total					939	

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

E. H.E. Projects under Survey & Investigation:

Sl. No.	Name of Project	River	I.C. (MW)	Agency	District	Type (R/S/R(P))	Date of MOA	Sector
1	Kishau MPP	Tone	660	UJVNL	Dehradun	S		State
1	Total		660					

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

F. Balance Capacity

SLNo.	Name of Project	River	Type	LC.(MW)	District	Remarks
1	Ram Ganga Dam	Ram Ganga	S	44	Pithoragarh	
2	Kuwa ford	Yamuna	R	106	Uttarkashi	
3	Bampa Kurkuti	Dhaul Ganga	R	31	Chamoli	
4	Tikh Kunwargarh (Tikh Gurupha)	Pindar	R	82	Bageshwar	
5	Uttyasu Dam	Alaknanda	S	720	Rudraprayag	
6	Sobla Jhimirigaon	Dhaul Ganga	R	118	Pithoragarh	
7	Tawaghat Dharchula	Sarda	R	470	Pithoragarh	
8	Kalika Dantu	Sarda	R	190	Pithoragarh	
9	Hanol tiuni	tons	R	62	Uttarkashi	
10	Bagoli Dam	Pindar	R	126	chamoli	
11	Jakhol sankari	Supin	R	44	Uttarkashi	
12	Urthing Sobla	Dhauliganga	R	228	Pithoragarh	
13	Mapang Bogidiyar	Goriganga	R	280	Pithoragarh	
14	Garba Tawaghat	MahaKali	R	398	Pithoragarh	- Initially allotted to NHPC - MoEF&CC has issued draft notification on 29.01.2019 regarding proposed ESZ of Askot Wildlife Sanctuary. Publication of final notification of boundaries is still awaited. Being located on Mahakali River, the project would need to be developed jointly with Nepal under the provision of Mahakali Treaty.
15	Tamak Lata	Dhauliganga	R	130	Chamoli	- Initially allotted to UJVNL - Project included in the list of 24 HE project named in PIL under consideration by Hon'ble Supreme Court.
16	Chhunger - Chal	Dhauliganga	R	130	Pithoragarh	- Initially allotted to NHPC - Project was held up due to MoEF Clearance. Project in Askot wild life Sanctuary. PCCF (Wildlife) and Chief Warden Wildlife, Dehradun has since granted permission for S&I on 17.05.2016. - NHPC vide letter dated 09.04.2018 intimated GoUK that it is not presently prudent to proceed further with implementation of Chungar Chal HE Project. State Govt. has requested NHPC to inform about their final decision on the project.
17	Devsari	Pindar	R	126	Chamoli	- Initially allotted to SJVN - Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
18	Sela Urthing	Dhauliganga	R	192	Pithoragarh	- Initially allotted to UJVNL - Project held up due to MOJS is not in favour of construction of any other HEP in Ganga Basin
19	Bokang Bailing	Dhauliganga	R	164	Pithoragarh	- Initially allotted to THDC - Project held up due to MOJS is not in favour of construction of any other HEP in Ganga Basin
20	Arakot -Tiuni HEP	Tons	R	100	Uttarkashi	- Initially allotted to UJVNL - Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
21	Lata Tapovan	Dhauliganga	R	171	Chamoli	- Initially allotted to NTPC - Matter is sub-judice. Infrastructure works almost completed. Hon'ble SC stayed construction of 24 HE projects in Uttarakhand including Lata Tapovan. - Project is likely to be commissioned 4 years after restart of works. Work stalled since May, 2014.
22	Phata Byung	Mandakini	R	76	Rudraprayag	- Initially allotted to MJUPL (Starkraft) - Works stalled since July, 2017 due to Financial crunch. The project stands allotted to M/s Statkraft IH through NCLT on 23.03.2023. The revival of Environmental clearance is under process. Project is likely to be commissioned 2 years after restart of works.
22	Total			3988		

Note: R –Run of the River & S- Storage

II. Pumped Storage Projects

Exploitable Hydro Power Potential from Pumped Storage Projects

S.No.	Name	River	I.C. (MW)
1	Tehri	Bhagirathi river	1000
1	Total		1000

a. PSP under Active Construction

S.No.	Name	Agency	District	River	No. of units x Unit size(MW)	I.C. (MW)	Sector	Remarks
1	Tehri	THDC	Tehri Garhwal	Bhagirathi river	4x250	1000	Private	Likely to be Commissioned by 2024-2025 (Feb.'25)
1	Total					1000		

Summary of Hydro Power Development in Uttar Pradesh

I. Conventional Projects

	Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)	4	501.6
Breakup of Hydro Power Potential (2017-23 Study)		
A Projects in operation	4	501.6

II. Pumped Storage Projects

	Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pump Storage Projects	10	16620
Breakup of Hydro Power Potential from Pumped Storage Projects		
a Under Survey & Investigation	7	13020
b Balance capacity	3	3600

I. Conventional Projects**Details of Exploitable Hydro Power Projects**

S.No	Name	River	Type	I.C. (MW)
1	Khara	Yamuna	R (P)	72
2	Matatila	Betwa	S	30.6
3	Obra	Rihand	S	99
4	Rihand	Rihand	S	300
4	Total			501.6

A. Projects in operation

SL. NO.	STATIONS	NO. OF STATIONS	NO. OF UNITS X CAPACITY (MW)	RIVER/ BASIN*	DISTRICT	I. C. (MW)	Type (R/S/R(P))	Sector	YEAR OF COMMISSIONING
UPJVNL									
1	KHARA	1	(3X24)	YAMUNA LINK CHANNEL	SUNEBHADRA	72	R(P)	State	1992
2	MATATILLA	1	(3X10.2)	BETWA	LALITPUR	30.6	S	State	1965
3	OBRA	1	(3X33)	RIHAND	SUNEBHADRA	99	S	State	1970-1971
4	RIHAND	1	(6X50)	Rihand	SINGRAULI	300	S	State	1961-1965
4	TOTAL UPJVNL	4				501.6			

II. Pumped Storage Projects

Exploitable Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Kandhaura	Sonbhadra	1680
2	Musakhband	Chandauli	600
3	UP01	Sonbhadra	3660
4	Shoma	Sonbhadra	2400
5	Sonbhadra	Sonbhadra	1200
6	Sashnai	Sonbhadra	1760
7	Astha UP	Mirzapur and Prayagraj	640
8	Panaura	Sonbhadra	1500
9	Jhariya	Sonbhadra	1620
10	Chichlik	Sonbhadra	1560
10	Total		16620

a. PSP under Survey & Investigation

S.No.	SCHEMES	Agency	Sector	District	River	INSTALLED CAPACITY		Remarks
						No. of units x Unit size(MW)	I.C. (MW)	
1	Kandhaura	JSW Energy	Private	Sonbhadra	Off Stream	5x280+2x140	1680	•Target date of preparation of DPR-04/25 •Date of MOA-25.11.2022
2	Musakhband	ACME Urja Two Private Limited	Private	Chandauli	Off Stream	(2x 200 MW + 2 x 100 MW)	600	•Target date of preparation of DPR-04/25 •Date of MOA-03.04.2023
3	UP01	Greenko	Private	Sonbhadra	Off Stream	11x305+2x152.5	3660	•Target date of preparation of DPR-12/25 •Date of MOA-01.02.2023
4	Shoma	Torrent Power	Private	Sonbhadra	Off Stream		2400	•Target date of preparation of DPR-06/25 •Date of MOA-20.01.2023
5	Jhariya	Jhariya Anant Urja	Private	Sonbhadra	Off stream		1620	•Target date of DPR preparation -08/25 • Date of MoA- 19.08.2023
6	Chichlik	Avaada	Private	Sonbhadra	Off Stream		1560	•Target date of DPR preparation -08/25 • Date of MoA- 03.04.2024
7	Panaura	Adani green	Private	Sonbhadra	Off Stream		1500	•Target date of DPR preparation -09/25 • Date of MoA- 16.05.2024
7	Total						13020	

b. Balance Capacity

S.No.	SCHEMES	Agency	River		District	I.C. (MW)	Remarks
			Upper Reservoir	Lower Reservoir			
1	Sonbhadra	Sri Siddharth Infratech & Services (I) Private Limited			Sonbhadra	1200	•Proposal not yet received in CEA • Agency-Sri Siddharth Infratech & Services (I) Privated Limited •Date of grant of TOR-07.06.2023
2	Sashnai	Torrent Power Limited			Sonbhadra	1760	•Proposal not yet received in CEA • Agency-Torrent Power limited •Date of grant of TOR-14.12.2023
3	Astha UP	Astha Green Energy Ventures India Private Limited			Mirzapur and Prayagraj	640	•Proposal not yet received in CEA • Agency-Astha Green Energy Ventures India Private Limited •Date of grant of TOR-13.06.2023
3	Total					3600	

Summary of Hydro Power Development in Madhya Pradesh

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		14	2819
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	9	2235
B	Balance Capacity	5	584

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pump Storage Projects		8	8560
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	Under S&I	2	2560
b	Balance Capacity	6	6000

I. Conventional Projects

Details of Exploitable Hydro Power Projects

S.No.	Name of Project	River	Type	I.C.(MW)
1	Bargi	Narmada	S	90
2	Indira Sagar (Narmada Sagar)	Narmada	S	1000
3	Omkareshwar	Narmada	S	520
4	Maheshwar	Narmada	R	400
5	Basania	Narmada	S	56
6	Hoshangabad (Jahanpur)	Narmada	R	58
7	Bauras	Narmada	R	44
8	Burhner	Burhner	S	26
9	Gandhi Sagar	Chambal	S	115
10	Rajghat	Betwa	S	45
11	Madhikheda	Sindh	S	60
12	Bansagar-III (Bansagar)	Sone	R	60
13	Bansagar-II (Beehar)	Sone	S	30
14	Bansagar-I (Tons)	Tons	R(P)	315
14	Total			2819

A. H.E. Projects in Operation:

S. No.	Utility/ Stations	No. of Stns.	No. Of units x Capacity (MW)	River	Basin	District	I.C. (MW)	Type (R/S/R(P))	Sector	Year of commissioning
	NHDC									
1	INDIRA SAGAR	1	(8X125)	NARMADA	CIR	KHANDWA	1000	S	Central	2004-2005
2	OMKARESHWAR	1	(8X65)	NARMADA	CIR	KHANDWA	520	S	Central	2007
	SUB-TOTAL NHDC	2					1520			
	TOTAL CENTRAL	2					1520			
	MPPGCL									
3	BANSAGAR TONS-I	1	(3X105)	TONS	GANGA	SATNA	315	R(P)	State	1991-1992
4	BANSAGAR TONS-III	1	(2X15)	SONE	GANGA	SATNA	30	R	State	2000-2002
5	BANSAGAR TONS-II	1	(3X20)	SONE	GANGA	REWA	60	S	State	2002
6	BARGI	1	(2X45)	NARMADA	CIR	JABALPUR	90	S	State	1988
7	GANDHI SAGAR	1	(5X23)	CHAMBAL	GANGA	MANDSAUR	115	S	State	1960-1966
8	MADHIKHERA	1	(3X20)	KALI SINDH	GANGA	SHIVPURI	60	S	State	2006-2007
9	RAJGHAT	1	(3X15)	BETWA	GANGA	ASHOK NAGAR	45	S	State	1999
	SUB-TOTAL MPPGCL	7					715			
9	TOTAL MP	9					2235			

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

B. Balance Capacity

S.No.	Name of Project	I.C. (MW)	District	River	Type	Remarks
1	Burhner	26	Mandla	Burhner	S	
2	Basania	56	Mandla	Narmada	S	
3	Hoshangabad (Jahanpur)	58	Hoshangabad	Narmada	R	
4	Bauras	44	Raisen	Narmada	R	
5	Maheshwar (Pvt.)	400	Khargone & Khandwa	Narmada	R	- Initially allotted to SMHPCL - Matter is sub-judice. Works suspended since Nov-11 due to cash flow problem with developer. M.P. Power Management Company Ltd. has terminated the Power Purchase Agreement with SMHPCL on 18.04.2020. The application of PFC has been admitted in NCLT on 27.09.2022 under IBC. CIRP has been put on hold by NCLT vide order dated 17.03.2023 in an application filed by Entegra Ltd. PFC has filed an Appeal before the NCLAT against the NCLT Order dated 17.03.2023 for recommencement of CIRP. Project is likely to be commissioned 2 years after restart of works.
5	Total	584				

Note: R –Run of the River & S- Storage

II. Pumped Storage Projects

Exploitable Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Indira Sagar-Omkareshwar PSP	Khandwa	640
2	MP30 Gandhi Sagar	Neemach	1920
3	Tekwa-2	Khargone	800
4	Satpura-2	Chhindwara	1000
5	Panari	Satna	1800
6	Astha MP	Khargone	1200
7	MP Pumped Storage Project	Panna	600
8	Rewa	Rewa	600
8	Total		8560

a. PSP under Survey & Investigation

S.No.	SCHEMES	Agency	Sector	District	River		I.C. (MW)		Remarks
					Upper Reservoir	Lower Reservoir	No. of units x Unit size(MW)	MW	
1	Indira Sagar-Omkareshwar PSP	NHDC	Central	Khandwa	ISP Reservoir	Omkareshwar reservoir	8x80	640	•Target date of DPR preparation-12/25 •Date of MOA-07.06.2023
2	MP30 Gandhi Sagar	Greenko	Private	Neemach	Off Stream	Chambal	7x240+2x120	1920	•Target date of DPR preparation-08/25 •Date of MOA-13.10.2021
2	Total							2560	

b. Balance Capacity

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Satpura-2	•Indicated by MoP to NHPC	Chhindwara	Latitude - 22.4043° Longitude - 78.8169°	Latitude - 22.4283° Longitude - 78.7933°	1000	•Yet to be allotted by the State for development •PFR Prepared
2	Panari	Sri Siddharth Infratech & Services (I) Private Limited	Satna			1800	•Proposal not yet received in CEA • Agency- Sri Siddharth Infratech & Services (I) Private Limited •Date of grant of TOR-13.03.2020
3	Astha MP	Astha Green Energy Ventures India Private Limited	Khargone			1200	•Proposal not yet received in CEA • Agency- Astha Green Energy Ventures India Private Limited •Date of grant of TOR-17.04.2023
4	MP Pumped Storage Project	Rithwik Projects Private Limited	Panna			600	•Proposal not yet received in CEA • Agency- Rithwik Projects Private Limited •Date of grant of TOR-13.06.2023
5	Rewa	Sasa Stone Private Limited	Rewa			600	•Proposal not yet received in CEA • Agency- Sasa Stone Private Limited •Date of grant of TOR-13.06.2023
6	Tekwa-2	NHDC	Khargone	Off Stream	Off Stream	800	•Initially allotted to NHDC •Project held up as allotment was pending
6	Total					6000	

Summary of Hydro Power Development in Chhattisgarh

I. Conventional Projects

		Nos.	I.C.(MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		11	1311
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	1	120
B	Balance Capacity	10	1191

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pump Storage Projects		8	8525
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	Under S&I	2	1800
b	Balance Capacity	6	6725

I. Conventional Projects

Details of Exploitable Hydro Power Projects

Sl.No.	Name of Project	River	Type	I. C. (MW)
1	Hasdeo Bango	Hasdeo	S	120
2	Bodhghat	Indravati	S	252
3	Kutru-I	Indravati	S	96
4	Kutru-II	Indravati	S	275
5	Nugur-I	Indravati	S	272
6	Kotri	Kotri	S	44
7	Konta	Sabari	R	68
8	Joka	Kanhar	S	30
9	Pasal	Rihand	S	82
10	Duniadhih (Duniahin)	Rehar	S	46
11	Rehar-II (Karri)	Rehar	S	26
11	Total			1311

A. H.E. Projects in Operation:

S. No.	Utility/ Stations	No. of Station	No. of units x Capacity (MW)	I.C. (MW)	River/ Basin	District	Type (R/S/R(P))	Sector	Year of commissioning
	CSPGCL								
1	HASDEO BANGO	1	(3X40)	120	HASDEO/ CIR	KORBA	S	State	1994-1995
1	TOTAL CSPGCL	1		120					

B. Balance Capacity

Sl. No.	Name of Project	River	I.C. (MW)	District	Type
1	Bodhghat	Indravati	252	Dantewada	S
2	Kutru-I	Indravati	96	Bastar	S
3	Kutru-II	Indravati	275	Bastar	S
4	Nugur-I	Indravati	272	Dantewada	S
5	Kotri	Kotri	44	Bastar	S
6	Konta	Sabari	68	Dantewada	R
7	Joka	Kanhar	30	Surguja	S
8	Pasal	Rihand	82	Surguja	S
9	Duniadhih	Rehar	46	Surguja	S
10	Rehar-II (Karri)	Rehar	26	Surguja	S
10	Total		1191		

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

II. Pumped Storage Projects

Exploitable Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Dangari	Jashpur	1400
2	Rauni	Raigarh	2100
3	Chikni	Surajpur	325
4	Kharauli	Surajpur	500
5	Hasdeo Bango	Korba	800
6	CHH-09	Surguja	1200
7	Gandhwani	Surguja	1200
8	Bilaspur	Bilaspur	1000
8	Total		8525

a. PSP under S&I

S. No.	Name of project	IC	Agency	Sector	River		District	Remarks
					Upper Reservoir	Lower Reservoir		
1	Hasdeo Bango	800	CSPGCL	State	Offstream	Exisiting Hasdeo bango reservoir on hasdeo river	Korba	•Target date of DPR Preparation-08/25 •Date of MoA-06.10.2023
2	Bilaspur	1000	Jindal renewables	Private	Offstream	Offstream	Bilaspur	•Target date of DPR Preparation-08/25 •Date of MoA-08.09.2023
2	Total	1800						

b. Balance Capacity

S.No.	SCHEMES	Agency	River		District	I.C. (MW)	Remarks
			Upper Reservoir	Lower Reservoir			
1	Dangari	CSPGCL	Bichri Nala	Goer river	Jashpur	1400	•Yet to be allotted by the State for development •Techno Commerical Feasibility Report (TCFR) has been prepared for IC of 1400 MW
2	Rauni	CSPGCL	Kamarima Nala	Dorki Nadi	Raigarh	2100	•Yet to be allotted by the State for development •Techno Commerical Feasibility Report (TCFR) has been prepared for IC 2100 MW
3	Chikni	Chikini Energy Private Limited			Surajpur	325	•Proposal not yet received in CEA • Agency- Chikni Energy Private Limited •Date of grant of TOR-07.08.2023
4	Kharauli	Kharauli Energy Private Limited			Surajpur	500	•Proposal not yet received in CEA • Agency- Kharauli Energy Private Limited •Date of grant of TOR-10.09.2023
5	CHH-09	Sterlite Grid 36 Limited			Surguja	1200	•Proposal not yet received in CEA • Agency- Sterlite Grid 36 Limited •Date of grant of TOR-22.01.2024
6	Gandhwani	Gandhwani Energy Private Limited			Surguja	1200	•Proposal not yet received in CEA • Agency- Gandhwani Energy Private Limited •Date of grant of TOR-05.02.2024
6	TOTAL					6725	

Summary of Hydro Power Development in Gujarat

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		2	550
Breakup of Hydro Power Potential (2017-23 Study)			
A	Capacity in operation	2	550

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pump Storage Projects		8	7700
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	In Operation	2	1440
b	Under S&I	3	1560
c	Balance Capacity	3	4700

Two pumped storage projects, namely Kadana (4x60 = 240 MW) and Sardar Sarovar (6x200 = 1200 MW) are constructed but not working in pumping mode. Kadana is not operating in pumping mode due to vibration problem. Sardar Sarovar Project is an interstate project of Gujarat, MP & Maharashtra and the operation of this project in pumping mode is under discussion with Narmada Control Authority (NCA) and concerned State Govts.

I. Conventional Projects

Details of Exploitable Hydro Power Projects

S.no	Name	River	I.C. (MW)	Type
1	Ukai	Tapti	300	S
2	Sardar Sarovar CHPH	Narmada	250	R(P)
2	TOTAL		550	

A. H.E. Projects in Operation:

S. No.	Utility/ Stations	No. of Stns.	No. of units x Capacity (MW)	River / Basin*	District	I.C. (MW)	Type (R/S/R(P))	Sector	Year of commissioning
	GSECL								
1	UKAI	1	(4X75)	TAPI	TAPI	300	S	State	1974-1976
	SUB-TOTAL GSECL	1				300			
	SSNNL								
2	SARDAR SAROVAR CHPH	1	(5X50)	NARMADA	NARMADA	250	R(P)	State	2004
	SUB-TOTAL SSNNL	1				250			
2	TOTAL GUJARAT	2				550			

* All projects are in CIR Basin

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

II. Pumped Storage Projects

Exploitable Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Kadana	Panchmahal	240
2	Sardar Sarover	Baharuch	1200
3	Ukai	Tapi	2400
4	Pindval	Vaisad	1000
5	Tokarpada	Vaisad	1300
6	Serula	Tapi	960
7	Juni kayaliwel	Tapi	300
8	Amalpada	Tapi	300
8	Total		7700

a. PSP In Operation

S.No.	SCHEMES	Agency	River		District	I.C. (MW)	Sector	Remarks
			Upper Reservoir	Lower Reservoir				
1	Kadana	GSECL	Mahi	Mahi	Panchmahal	240	State	Not Working in Pumping Mode
2	Sardar Sarover	SSNNL	Narmada	Narmada	Baharuch	1200	State	Not Working in Pumping Mode
2	TOTAL					1440		

b. PSP Under S&i

S.No.	SCHEMES	Agency	River		District	I.C. (MW)	Sector	Remarks
			Upper Reservoir	Lower Reservoir				
1	Serula	GSECL	Off Stream	Off Stream	Tapi	960	State	• Target date of DPR preparation-09/25
2	Juni Kayaliwel	GSECL	Off Stream	Off Stream	Tapi	300	State	• Target date of DPR preparation-09/25
3	Amalpada	GSECL	Off Stream	Off Stream	Tapi	300	State	• Target date of DPR preparation-09/25
3	TOTAL					1560		

c. Balance Capacity

S.No.	SCHEMES	Agency	River		District	I.C. (MW)	Remarks
			Upper Reservoir	Lower Reservoir			
1	Ukai	Greenko Energies Private Limited			Tapi	2400	• Proposal not yet received in CEA • Agency- Greenko Energy Private Limited • Date of grant of TOR- 13.04.2020
2	Pindval	Torrent Power Limited			Vaisad	1000	• Proposal not yet received in CEA • Agency- Torrent Power • Date of grant of TOR- 23.09.2023
3	Tokarpada	Torrent Power Limited			Vaisad	1300	• Proposal not yet received in CEA • Agency- Torrent Power • Date of grant of TOR- 23.09.2024
3	TOTAL					4700	

Summary of Hydro Power Development in Maharashtra

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		16	3144.0
Breakup of Hydro Power Potential (2017-23)			
A	Projects in operation	12	2647
B	Balance Capacity	4	497

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pump Storage Projects		35	43405
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	In Operation	2	400
b	Concurred	2	2500
c	Under S&I	10	18500
d	Balance Capacity	22	23805

I. Conventional Projects

Details of Exploitable Hydro Power Projects				
S.no	Name	River	Type	I.C. (MW)
1	Vaitarna (Vaitarna I)	Vaitarna	S	60
2	Bhira Tail Race	Kundalika	R (P)	80
3	Tillari	Tillari	R (P)	60
4	Bhandardara St-II	Pravara	R (P)	34
5	Pench	Pench	S	160
6	Wainganga	Wainganga	S	138
7	Samda	Wainganga	R	45
8	Kunghara	Wainganga	R	100
9	Pranhita	Pranhita	S	214
10	Bhivpuri	Andhra	S	75
11	Khopoli	Indrayani	S	72
12	Bhira	Neela& Mula	S	150
13	Koyna Dam P/H	Koyna	S	36
14	Koyna St. I & II	Koyna	S	600
15	Koyna St. III	water discharge d from units(St-I, II & IV	R (P)	320
16	Koyna St. IV	Koyna	S	1000
16	TOTAL			3144

A. H.E. Projects in Operation:

S. No.	Utility/	No. Of stns.	No. Of units x Capacity (MW)	River	Basin	District	I.C. (MW)	Type (R/S/R(P))	Sector	Year of commissioning
MAHAGENCO										
1	BHIRA TAIL RACE	1	(2X40)	KUNDALIKA	WFR	RAIGAD	80	R(P)	State	1987-1988
2	KOYNA DPH	1	(2X18)	KOYNA	EFR	SATARA	36	S	State	1980-1981
3	KOYNA-I&II	1	(4X70)+ (4X80)	KOYNA	EFR	PATAN	600	S	State	1962-1967
4	KOYNA-III	1	(4X80)	Water let out through ulestown units (St-I,II & IV)	EFR	RATNAGIRI	320	R(P)	State	1975-1978
5	KOYNA-IV	1	(4X250)	KOYNA	EFR	SATARA	1000	S	State	1999-2000
6	TILLARI	1	(1X60)	TILLARI	WFR	KOLHAPUR	60	R(P)	State	1986
7	VAITARNA	1	(1X60)	VAITARNA	WFR	NASIK	60	S	State	1976
	SUB-TOTAL MAHAGENCO	7					2156			
MPPGCL										
8	PENCH	1	(2X80)	PENCH	EFR	CHINDWARA	160	S	State	1986-1987
	SUB-TOTAL MPPGCL	1					160			
	TOTAL STATE SECTOR	8					2316			
PRIVATE										
DODSON-LINDBLOM HYDRO POWER PVT. LTD. (DLHP)										
9	BHANDARDHARA ST-II	1	(1X34)	PRAVARA	EFR		34	R(P)	Private	1996
	SUB-TOTAL DLHP	1					34			
	TATA POWER COMPANY (PVT.)									
10	BHIRA	1	(6X25)	NEELA & MULA	EFR	RAIGAD	150	S	Private	1927-1949
11	BHIVPURI	1	(3X24) + (2X1.5)	ANDHRA	EFR	RAIGAD	75	S	Private	1997-1999
12	KHOPOLI	1	(3X24)	INDRAYANI	EFR	RAIGAD	72	S	Private	2001-2003
	SUB-TOTAL TPCL	3					297			
	TOTAL PVT (MAHARASHTRA)	4					331			
12	TOTAL MAHARASHTRA	12					2647			

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

B. Balance Capacity

Sl .No.	Name of Project	River	Type	I.C.(MW)	District
1	Wainganga	Wainganga	S	138	Border of Gadchiroli and Chandrapur district
2	Samda	Wainganga	R	45	Border of Gadchiroli and Chandrapur district
3	Kunghara	Wainganga	R	100	Border of Gadchiroli and Chandrapur district
4	Pranhita	Pranhita	S	214	Gadchiroli
4	Total			497	

Note: R –Run of the River & S- Storage

II. Pumped Storage Projects

Exploitable Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Ghatghar Stage-II	Ahmednagar	125
2	Malshej Ghat	Ahmednagar/ Thane	700
3	Mutkhel	Ahmednagar	110
4	Warasgaon	Pune/Raigad	1200
5	Bhira	Raigad	150
6	Ghatgar	Thana	250
7	Kengadi	Thane	1550
8	Jalond	Thane	2400
9	Amba	Pune	800
10	Jalvara	Ratnagiri/Belgaum	2220
11	Koyna Left Bank	Satara	80
12	Varandhghat	Pune	800
13	Panshet	Satara	1600
14	Nive	Pune	1200
15	Kodali	Kolhapur	220
16	Bhavali	Nashik/ Thane	1500
17	Atvan	Pune/raigad	500

18	Koyna St-VI	Satara	400
19	Patgaon	Sindhudurg and Kolhapur	2100
20	Kundi	Ratnagiri	600
21	Pane	Raigad	1500
22	Tarali	Satara	1500
23	Malshej Ghat Bhorande	Pune & Thane	1500
24	Aruna	Kolhapur	1950
25	Humbarli Birmani	Satara/ Ratnagiri	1000
26	Shirwata	Pune	1800
27	Bhivpuri	Raigad	1000
28	Warasgaon Warangi	Pune-Raigad	1500
29	Savitri	Raigad and Satara	2250
30	Koyna Nivakane	Satara	2700
31	Nayagaon	Chhatrapati Sambhajnagar	2000
32	Mhaismal	Aurangabad	800
33	Kolhapur	Kolhapur	1200
34	Maval (Saidongar-2)	Pune and Raigarh	1200
35	Saidongar-1	Pune and Raigarh	3000
35	Total		43405

a. PSP in Operation

S.No.	SCHEMES	Agency	District	River		Sector	I.C. (MW)
				Upper Reservoir	Lower Reservoir		
1	Bhira	TATA power	Raigad	Mulla & Neela		Private	150
2	Ghatgar	MAHAGENCO	Thana	Pravara		State	250
2	Total						400

b. PSP concurred and yet to be taken up for construction

S. No.	Scheme	Agency	Sector	River		IC (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Bhivpuri	Tata Power Corporation Ltd	Private	Exisiting Thokerwadi reservoir	Off Stream	1000	Date of concurrence - 30.09.2024
2	Bhavali	JSW Energy	Private	Downstream of Bhavali dam	Ulhas river	1500	Date of concurrence - 24.09.2024
2	Total					2500	

c. PSP under S&I

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Sector	Remarks
				Upper Reservoir	Lower Reservoir			
1	Pane	JSW Energy	Raigad	Off Stream	connected to a small stream which joins the downstream Kal river	1500	Private	•Target date of DPR preparation-07/24 •Date of MOA-29.09.2022
2	Tarali	Adani Green Energy Ltd.	Satara	Off Stream	existing Tarali reservoir	1500	Private	•Target date of DPR preparation-03/25 •Date of MOA-28.06.2022
3	Malshej Ghat Borande	Adani Green Energy Ltd.	Pune & Thane	on Minor nallah draining into Kukadi river	on Minor nallah draining into Kalu rive	1500	Private	•Target date of DPR preparation-03/25 •Date of MOA-28.06.2022
4	Shirwata	TATA power	Pune	offstream	existing Shirawata reservoir	1800	Private	• Target date ofDPR preparation-11/24 •Date of MOA- 08.08.2023
5	Savitri	NHPC	Raigad and Satara	proposed on the Koyna River (Tributary of Krishna River)	Proposed on the Savitri River near	1800	Central	•Agency-NHPC •Target date of DPR preparation-06/25
6	Warasgaon Warangi	Adani Green	Pune-Raigad	on minor nallah draining into Ambi river	on minor nallah draining into Kal river	1500	Private	• Target date ofDPR preparation-03/25 •Date of MOA- 28.06.2022
7	Koyna Nivakane	Adani Green	Satara	minor rivulet draining into Kera River/ Koyna river	minor rivulet draining into Kera River/ Koyna river	2700	Private	• Target date ofDPR preparation-06/25 •Date of MOA- 28.06.2022
8	Nayagaon	Greenko	Chhatrapati Sambhajiagar	offstream	minor nallah draining into Hivra River	2000	Private	• Target date ofDPR preparation-06/25 •Date of MOA- 16.01.2023
9	Karjat(Saidongar-1)	Torrent ower	Raigad	Off Stream	Initially filling by rainfall yield of self catchment of lower reservoir only	3000	Private	• Target date ofDPR preparation-08/25 •Date of MOA- 06.06.2023
10	Maval (Saidongar -2)	Torrent Power	Pune & Raigad	offstream	Initial filling by rainfall yield of self-catchment of the lower reservoir only	1200	Private	• Target date ofDPR preparation-08/25 •Date of MOA- 06.06.2023
10	Total					18500		

c. Balance Capacity

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Ghatghar Stage-II	WRD, Maharashtra	Ahmednagar	Pravara river	Shahi Nalla	125	PFR Prepared in March-21. Use of both reservoirs of Ghatghar PSP St.I
2	Malshej Ghat	Indicated by MoP to THDCIL	Ahmednagar/Thane	Kalu river		700	Yet to be allotted by the State for development. Implementation agreement yet to be signed with Govt. of Maharashtra. DPR Prepared in May-2010.
3	Mutkhel	WRD, Maharashtra	Ahmednagar	Pravara		110	PFR Prepared in May-15
4	Kengadi	Indicated by MoP to NHPC	Thane	Thane	Kengadi river	1550	Yet to be allotted by the State for development
5	Jalond	Indicated by MoP to NHPC	Thane	Thane	Mula river	2400	Yet to be allotted by the State for development
6	Amba	Indicated by MoP to NTPC	Pune	Pune	Lonauli Lake	800	Yet to be allotted by the State for development
7	Jalvara	Indicated by MoP to SJVNL	Ratnagiri/ Belgaum	Ratnagiri/ Belgaum	Hajatar river	2220	Yet to be allotted by the State for development
8	Varandhghat	WRD, Maharashtra	Pune	Welvandi River	Kharak River	800	Preliminary Investigation Report prepared in Dec 16
9	Panshet	WRD, Maharashtra	Satara	Mose River	Kal River	1600	Preliminary Investigation Report Prepared in March-17
10	Nive	WRD, Maharashtra	Pune	Kundalika River	Kundalika River	1200	PFR Prepared in August-2015
11	Kodali	WRD, Maharashtra	Kolhapur	Kodali River	Kharal River	220	PFR Prepared in April-2014
12	Atvan	WRD, Maharashtra	Pune/raigad	pawana	uttara	500	PFR prepared
13	Koyna St-VI	WRD, Maharashtra	Satara	Koyna	Koyna	400	Yet to be allotted by the State for development
14	Kundi	Indicated by MoP to NTPC	Ratnagiri	Varna river	Nibera Vahal river	600	Yet to be allotted by the State for development
15	Aruna	Indicated by MoP to THDCIL	Kolhapur	Kumbli river	Aruna river	1950	Yet to be allotted by the State for development PFR Prepared
16	Humbarli Birmani	Indicated by MoP to THDCIL	Satara/ Ratnagiri	minor nallah flowing to koyna river basin	On initial reaches of a nallah flowing to suk river	1000	Yet to be allotted by the State for development PFR Prepared
17	Mhaismal	Greenko Energies Private Limited	Aurangabad			800	•Proposal not yet received in CEA • Agency- Greenko Energy Private Limited •Date of grant of TOR-28.02.2020
18	Kolhapur	Rithwik Projects Private Limited	Kolhapur			1200	•Proposal not yet received in CEA • Agency- Rithwik Projects Private Limited •Date of grant of TOR-13.06.2023
19	Koyna Left Bank	WRD , Maharashtra	Satara	Koyna		80	Project stalled since July, 2015. The current expenditure on the project has already reached to almost original administrative approved cost level. The proposal for execution with various options (By WRD/ Through BOT/ By MSPGCL in collaboration with WRD) is under process.Project is likely to be commissioned 4 years after restart of works
20	Warasgaon	WRD, Maharashtra	Pune/Raigad	Mose river	Kal river	1200	no progress on S&I activities from more than 6 months
21	Patgaon	Adani Green Energy Ltd.	Sindhudurg and Kolhapur	existing Patgaon reservoir	to be constructed on tributary of Karli river	2100	Adani letter dated 19.01.2024 vide which it was informed that the project elements such as powerhouse and lower reservoir are located in the area marked as Tiger Corridor by National Tiger Corridor Authority. Developer is identifying a new PSP site out side the National Tiger Corridor.
22	Savitri	NHDC	Raigad and Satara	proposed on the Koyna River (Tributary of Krishna River)	Proposed on the Savitri River near	2250	Project returned due to non submission of all pre DPR chapters required for finalization of general layout as per checklist
22	Total					23805	

Summary of Hydro Power Development in Goa

I. Conventional Projects

	No.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)	*	*

Summary of Hydro Power Development in Andhra Pradesh

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		8	2826
Breakup of Hydro Power Potential (2017-23)			
A	Projects in operation	5	1610
B	Projects under construction	2	1190
C	Balance Capacity	1	26

II. Pumped Storage Projects

		Nos.	Capacity (MW)
Exploitable Hydro Power Potential from Pump Storage Projects		23	26420
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	Under Construction	2	2550
b	Under S&I	14	15850
c	Balance Capacity	7	8020

I. Conventional Projects

Details of Exploitable Hydro Power Projects

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Upper Sileru-I&II (Upper Sileru)	Sileru	S	240
2	Lower Sileru	Sileru	S	460
3	Polavaram	Godavari	S	960
4	Balimela Dam Toe	Sileru	S	26
5	Srisaillam	Krishna	S	770
6	Nagarjunasagar RBC & Ext (Nagarjunasagar RBC)	Krishna	S	90
7	Nagarjunasagar TPD	Krishna	R (P)	50
8	Lower sileru extension	Sileru	R (P)	230
8	Total			2826

A. H.E. Projects in Operation:

S. No.	Utility/ Stations	No. Of stns.	No. of units x Capacity (MW)	River / Basin*	District	I.C. (MW)	Type (R/S/R(P))	Sector	Year of commissioning
APGENCO									
1	LOWER SILERU	1	(4X115)	SILERU	KHAMMAM	460	S	State	1976-1978
2	NAGARJUNA SGR RBC & EXT.	1	(3X30)	KRISHNA	SATRASALA	90	S	State	1983-90
3	SRISAILAM	1	(7X110)	KRISHNA	MAHABUBNA GAR	770	S	State	1982-1987
4	UPPER SILERU-I&II	1	(4X60)	SILERU	VISHAKAPAT NAM	240	S	State	1967-1995
5	NJ SAGAR TPD	1	(2X25)	KRISHNA	GUNTUR	50	R(P)	State	2017
5	TOTAL	5				1610			

* All projects are in EFR Basin

B. H.E. Projects under construction:

Sl. No.	Name of Project	Agency	River/ Basin	District	I. C. (MW)	Type (R/S/R(P))	Sector	Likely Commissioning
1	Polavaram	APGENCO/ Irrigation Dept., A.P	Godavari/ EFR	East & West Godavari	960	S	State	2027-28 (Sept'27)
2	Lower sileru extension	APGENCO	Sileru/EFR	Alluri Sitharamaraju	230	R(P)	State	2025-26 (Mar'26)
2	Total				1190			

Note : R= Run of River, S=Storage & R(P)= Run of River with Pondage

C. Balance Capacity

Sl.No.	Name of Project	River	Type	I. C. (MW)	District	Remarks
1	Balimela Dam Toe	Sileru	S	26	Malkangri	• The Government of Orissa and Government of Andhra Pradesh agreed in year 1962 that AP will construct a 60 MW Power House at Balimela toe for its own use at its cost, using AP's 50% share of water. Though the Dam is situated in orissa, 100% cost and benefits go to State of A.P. as per the agreement • This project could not be taken up due to non-issue of NOC by Govt of Odisha for blasting material for power House excavation in spite of lot of correspondence from Govt of AP. • The Govt. of Odisha had informed the Govt. of AP on 08-09-2010 to take up the construction of this project jointly by both APGENCO & OHPC on 50:50 basis. • The correspondence has been done with Govt. of Odisha from year 2013 to till date on the finalization of the clauses of draft modified agreement to be entered by both Govt. of AP & Govt. of Odisha as the implementation of Balimela Dam Toe HE Project would be taken up jointly by both APGENCO & OHPC duly sharing the costs and benefits in 50:50 ratio as per the decisions of Project Administrative committee (PAC) and after signing of modified agreement. • At present, the draft modified agreement is submitted to the Govt. of AP vide dt:07-07-18 for approval. After receiving approval from Govt. of AP, the draft modified agreement will be sent to M/s OHPC for arranging consent of Govt. of Odisha.
1	Total			26		

Note: R –Run of the River & S- Storage

II. Pumped Storage

Exploitable Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Upper Sileru	Alluri Sitharamaraju	1350
2	Kurukutti	Vizianagaram	1200
3	Karrivalasa	Vizianagaram	1000
4	Yerravaram PSP	Vishakhapatnam	1200
5	Pinnapuram	Kurnool	1200
6	Gandikota	Kadapa	1000
7	Chitravathi	Ananthapuramu	500
8	Somasila	Kadapa	900
9	Owk	Kurnool	800
10	Paidipalem East	YSR	1200
11	Singanamala	Ananthapuramu	800
12	Paidipalem North	YSR	1000
13	Veeraballi Off-Stream	Annamayya	1800
14	Vempalli	YSR Kadapa	1500
15	Gujjili	Alluri Sitharama Raju	1500
16	Raiwada	Anakapalle	900
17	Chittamvalasa	Alluri Sitarama Raju	800
18	Yaganti	Nandyal	1000
19	Kamalapadu	Ananthapuramu	950
20	Aravetipalli	YSR	1320
21	Rayavaram	Annamayya	1500
22	Gadikota	Annamayya	1200
23	Pedakota	Alluri Seetharama Raju	1800
23	Total		26420

a. PSP Under Construction

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Sector	Remarks
				Upper Reservoir	Lower Reservoir			
1	Pinnapuram	Greenko	Kurnool	Near Gorakallu reservoir in Pannapuram Village Lat 15°36'26" N Long 78°15'13" E	In Pannapuram Village Lat 15°37'26" N Long 78°15'30" E	1200	Private	Likely to be Commissioned by 2024-2025(March'25)
2	Upper Sileru	APGENCO	Alluri Sitharamraju	Guntawada reservoir	Donkarayi reservoir	1350	State	Likely to be Commissioned by 2028-2029(Feb'29)
2	Total					2550		

b. PSP Under S&I

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Sector	Remarks
				Upper Reservoir	Lower Reservoir			
1	Gandikota	Adani Green Energy Ltd.	Kadapa	Off Stream	Gandikota reservoir on Penna River	1000	Private	•Target date of DPR preparation-11/24
2	Chitravathi	Adani Green Energy Ltd.	Ananthapuramu	Off Stream	Chitravathi	500	Private	•Target date of DPR preparation-10/24 •Date of MOA-29.06.2022
3	Somasila	Shirdi Sai Electricals Ltd.	Kadapa	Off Stream	Off Stream,	900	Private	•Target date of DPR preparation-04/25 •Date of MOA-19.01.2023
4	Owk	Aurobindo Realty & Infrastructure Pvt. Ltd.	Kurnool	Off Stream	Owk reservoir on Penna River	800	Private	•Target date of DPR preparation-04/25 •Date of MOA-12.09.2022
5	Paidipalem East	Indosol Solar Power Pvt. Ltd.	YSR	new proposed Off Stream	new proposed draws water Paidipalem Balancing reservoir	1200	Private	•Target date of DPR preparation-04/25 •Date of MOA-12.09.2022
6	Singanamala	Aurobindo Realty & Infrastructure Pvt. Ltd.	Ananthapuramu	Off Stream	Off Stream	800	Private	•Target date of DPR preparation-04/25 •Date of MOA-12.09.2022
7	Paidipalem North	Indosol Solar Power Pvt. Ltd.	YSR	new proposed Off Stream	new proposed draws water Paidipalem Balancing reservoir	1000	Private	•Target date of DPR preparation-04/25 •Date of MOA-12.09.2022
8	Veeraballi Off-Stream	Astha Green Energy Ventures India PVT. LTD.	Annamayya	Off Stream	Off Stream	1800	Private	•Target date of DPR preparation-04/25 •Date of MOA-12.09.2022
9	Vempalli	JSW Energy	YSR Kadapa	Off Stream	Off Stream	1500	Private	•Target date of DPR preparation-04/25 •Date of MOA-25.01.2022
10	Raiwada	Adani Green Energy Ltd.	Anakapalle	on a tabletop hill across a minor rivulet draining into a nallah	across Sarada river	900	Private	•Target date of DPR preparation-04/25 •Date of MOA-23.05.2022

11	Kamalapadu	APGENCO	Ananthapuramu	Off Stream	Off Stream	950	State	•Target date of DPR preparation-04/25 •Date of MOA- 23.08.2023
12	Rayavaram	NREDCAP	Annamayya	On minor Stream	On minor Stream	1500		•Target date of DPR preparation-06/25
13	Gadikota	APGENCO	Annamayya	Off Stream	Off Stream	1200	State	•Target date of DPR preparation-06/24 •Date of MoA-29.06.2022
14	Pedakota	Adani Green	Alluri Seetharama Raju	on minor stream draining into the Sarada River	on minor stream draining into the Sarada River	1800	Private	•Target date of DPR preparation-06/25 •Date of MoA-23.05.2022
14	Total					15850		

c. Balance Capacity

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Kurukutti	Adani Green Energy Ltd.	Vizianagaram	Minor nallah draining into Boduru Gedda river	Boduru Gedda river	1200	•Project site (partly) falls within the disputed boundary between Govt. of Andhra Pradesh and Govt. of Odisha. Drilling Held up.
2	Karrivalasa	Adani Green Energy Ltd.	Vizianagaram	Minor nallah draining into Boduru Gedda river	Boduru Gedda river	1000	•Project site (partly) falls within the disputed boundary between Govt. of Andhra Pradesh and Govt. of Odisha. Drilling Held up.
3	Yerravaram PSP	Shirdi Sai Electricals Ltd.	Vishakhapatnam	Nallah/Stream flowing into the Thandava reservoir,	Nallah/Stream flowing into the Thandava reservoir,	1200	Drilling activity will be commenced upon resolving local issues
4	Gujjili	NREDCAP	Alluri Sitharama Raju	Off Stream	Off Stream	1500	Project is not allotted to any developer, Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
5	Chittamvalasa	NREDCAP	Alluri Sitarama Raju	Off Stream	Off Stream	800	Project is not allotted to any developer, Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
6	Yaganti	APGENCO	Nandyal	Minor rivulet	Minor rivulet	1000	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
7	Aravetipalli	APSPCL	YSR	Off Stream	Off Stream	1320	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
7	Total					8020	

Summary of Hydro Power Development in Telangana

I. Conventional Projects

		Nos.	Capacity (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		8	1302.00
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	6	800
B	Projects returned to project authorities	1	320
C	Balance Capacity*	1	240

*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

II. Pumped Storage Projects

		Nos.	Capacity (MW)
Exploitable Hydro Power Potential from Pump Storage Projects		7	8755.6
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	In Operation	2	1605.6
b	Balance Capacity	5	7150.00

I. Conventional Projects

Details of Exploitable Hydro Power Projects

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Pochampad	Godavari	S	36
2	Dummugudem	Godavari	R	262
3	Tupakulagudem	Godavari	S	240
4	Priyadarshini Jurala	Krishna	R (P)	234
5	Lower Jurala	Krishna	R (P)	240
6	Nagarjunasagar (Nagarjunasagar Dam PH)	Krishna	S	110
7	Nagarjunasagar LBC	Krishna	R	60
8	Pulichintala	Krishna	R (P)	120
8	Total			1302

A. H.E. Projects in Operation:

S. No.	Utility/ Stations	No. of Stns.	No. of units x Capacity (MW)	River / Basin*	District	I.C. (MW)	Type (R/S/R(P))	Sector	Year of commissioning
	TSGENCO								
1	PRIYADARSHNI JURALA	1	(6X39)	KRISHNA	MAHABOOB NAGAR	234	R(P)	State	2008-2011
2	POCHAMPAD	1	(4X9)	GODAVARI	NIZAMABAD	36	S	State	1987-1988, 2010
3	NAGARJUNA SGR	1	(1X110)	KRISHNA	NALGONDA	110	S	State	1978-85
4	NAGARJUNA SGR LBC	1	(2X30)	KRISHNA	GUNTUR	60	R	State	1983
5	LOWER JURALA	1	(6X40)	KRISHNA	WANPARTHY	240	R(P)	State	2015-16
6	PULINCHINTHALA	1	(4X30)	KRISHNA	SURAPETA	120	R(P)	State	2016-17
6	TOTAL TSGENCO	6				800			

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

B. H.E. Projects Returned to project Authorities:

Sl. No.	Name of Project	Agency	Month of Return	I.C. (MW)	Sector	Reason for Return
1	Dummugudem	APGENCO	Mar-06	320	State	Returned due to non-replying of various comments such as hydro planning, cost of E&M works, hydel civil Engineering, geological aspects etc.
1	Total			320		

C. Balance Capacity

Sl.No.	Name of Project	River	District	I.C.(MW)	Type
1	Tupakulagudem	Godavari	Mulugu	240	S

II. Pumped Storage Projects

Exploitable Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Nagarjuna Sagar	Karnool	705.60
2	Srisailem LBPH	Nalgonda	900
3	Ippagudem	Mulugu	3960
4	Ranapur	Adilabad	1200
5	Greenko TS01	Adilabad	750
6	Astha Telangana	Nizamabad	600
7	Cerulean-II	Komarambheem	640
7	Total		8755.6

a. PSP in Operation

S.No.	SCHEMES	Agency	District	River	I.C. (MW)	Sector
1	Nagarjuna Sagar	TSGENCO	Karnool	Krishna	705.60	State
2	Srisailem LBPH	TSGENCO	Nalgonda	Krishna	900	State
2	Total				1605.6	

b. Balance Capacity

Sl. No	Name of Project	District	Agency	River		I.C. (MW)	Remarks
				Upper reservoir	Lower Reservoir		
1	Ippagudem	Mulugu	Greenko Energies Private Limited			3960.00	• Proposal not yet received in CEA • Agency- Greenko energie Private Limited • Date of grant of TOR- 13.07.2020
2	Ranapur	Adilabad	Sri Siddharth Infratech & Services (I) Private Limited			1200	• Proposal not yet received in CEA • Agency- Sri Siddharth Infratech & Services (I) Private Limited • Date of grant of TOR- 08.12.2022
3	Greenko TS01	Adilabad	Greenko Energies Private Limited			750	• Proposal not yet received in CEA • Agency- Greenko Energies Private Limited • Date of grant of TOR- 17.04.2023
4	Astha Telangana	Nizamabad	Astha Green Energy Ventures India Private Limited			600	• Proposal not yet received in CEA • Agency- Astha Green Energy Ventures India Private Limited • Date of grant of TOR- 07.06.2023
5	Cerulean-II	Komarambheem	Cerulean Energy Solutions Private Limited			640	• Proposal not yet received in CEA • Agency- Cerulean Energy Solutions Privated Limited • Date of grant of TOR- 07.06.2023
5	TOTAL					7150.00	

Summary of Hydro Power Development in Karnataka

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		20	4414.4
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	16	3689.2
B	Projects returned to project authorities	2	665
C	Balance Capacity*	4	747

*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pumped Storage Projects		8	7600
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	Under S&I	2	1900
b	Concurred and yet to be taken up for construction	1	2000
c	Balance	5	3700.00

I. Conventional Projects

Details of Exploitable Hydro Power Projects

Sl.No.	Name of Project	River	Type	I. C. (MW)
1	Almatti	Krishna	S	290
2	Ghatprabha	Ghataprabha	S	32
3	Bhadra (Bhadra Dam PH)	Bhadra	S	39.2
4	Munirabad	Tungbhadra	S	38
5	Hampi	Tungbhadra	S	36
6	T B Dam (Tungabhadra RBC)	Tungbhadra	S	36
7	Shivasamudram	Cauvery	R (P)	42
8	Kalinadi Supa	Kali	S	100
9	Kalinadi (Nagjhari)	Kali	S	855
10	Kodasalli (Kalinadi I (Kadassali))	Kali	S	120
11	Kadra Kalinadi I(Kadra)	Kali	S	150
12	Gangavali St.II (Gangavali (Sonda) St.II)	Gangavali	R	600
13	Linganamakki	Sharavathy	S	55
14	Mahatma Gandhi Jog	Sharavathy	S	139.2
15	Sharavathy (Sharavathi)	Sharavathy	S	1035
16	Gerusoppa (Sharavathy Tail Race)	Sharavathy	R (P)	240
17	Varahi	Varahi	R (P)	460
18	Netravathy	Netravathy	S	41
19	Sirpadi	Netravathy	R	36
20	Kumaradhari	Kumaradhari	S	70
20	TOTAL			4414.4

A. H.E. Projects in Operation:

S. No.	Utility/ Stations	No. of Stns.	No. Of units x capacity (MW)	River	Basin	District	I.C. (MW)	Type (R/S/R(P))	Sector	Year of commissioning
	KPCL									
1	ALMATTI	1	(5X55) +(1X15)	KRISHNA	EFR	BIJAPUR	290	S	State	2004-2005
2	GERUSOPPA (SHARAVATHY TAIL RACE)	1	(4X60)	SHARAVATHY	WFR	UTTARA KANNADA	240	R(P)	State	2001-2002
3	GHAT PRABHA	1	(2X16)	GHATPRABHA	EFR	BELGAUM	32	S	State	1992
4	MAHATMA GANDHI JOG	1	(4X21.6) +(4X13.2)	SHARAVATHY	WFR	SHIMOGA	139.2	S	State	1949-1952
5	KADRA	1	(3X50)	KALI	WFR	UTTARA KANNADA	150	S	State	1997-1999
6	KALINADI (NAGJHARI)	1	6x 150	KALI	WFR	UTTARA KANNADA	900	S	State	1979-1984
7	KALINADI SUPA	1	(2X50)	KALI	WFR	UTTARA KANNADA	100	S	State	1985
8	KODASALI	1	(3X40)	KALI	WFR	UTTARA KANNADA	120	S	State	1998-1999
9	LINGNAMAKKI	1	(2X27.5)	SHARAVATHY	WFR	SHIMOGA	55	S	State	1979-1980
10	MUNIRABAD	1	(2X9) +(1X10)	TUNGABHADRA	EFR	KOPPAL	28	S	State	1962-1965
11	SHARAVATHY	1	(10X103.5)	SHARAVATHY	WFR	SHIMOGA	1035	S	State	1965-1977
12	SIVASAMUNDRUM	1	(4X6)+(6X3)	CAUVERY	EFR	MANDYA	42	R(P)	State	1922-1934
13	VARAHI	1	(4X115)	VARAHI	WFR	UDUPI	460	R(P)	State	1989-2009
14	BHADRA	1	(2x12)+(1x2)	BHADRA	EFR	CHICKMAGALUR	26	S	State	1965
	TOTAL KPCL	14					3617.2			
	APGENCO									
15	T B DAM *	1	(4X9)	TUNGABHADRA	EFR	BELLARI	36	S	State	1957-1964
16	HAMPI *	1	(4X9)	TUNGABHADRA	EFR	BELLARI	36	S	State	1958-1964
	SUB-TOTAL APGENCO	2					72			
16	TOTAL KARNATAKA	16					3689.2			

* Utilities are in Andhra Pradesh

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

B. Hydro Projects Returned to Project Authorities for re-submission after compliance of observations:

Sl. No.	Name of Project	Agency	I.C. (MW)	Sector	Reason of Return
1	Sivasamudram	KPCL	345	State	Presentation meeting held on 16.5.2012 as it involves interstate issues; DPR could not be processed and returned the same for resubmission after resolution of interstate aspects.
2	Mahadayi	KPCL	320	State	Returned due to non-tie up of inputs/clearances, the project involves interstate aspects.
2	Total		665		

C. Balance Capacity

Sl.No.	Name of Project	District	I.C. (MW)	Type	River
1	Netravathy	Dakshina Kannada	41	S	Netravathy
2	Sirpadi	Dakshina Kannada	36	R	Netravathy
3	Kumaradhari	Dakshina Kannada	70	S	Kumaradhari
4	Gangavali St.II (Gangavali (Sonda) St.II)	Uttara Kannada	600	R	Gangavali
4	Total		747		

Note: R –Run of the River & S- Storage

II. Pumped Storage

Exploitable Hydro Power Potential from Pumped Storage Projects

Sl. No.	Name of project	District	I.C. (MW)
1	Varahi	Dakshina Kannada	1500
2	Sharavathy	Shimoga & Uttara Kannada	2000
3	Saundatti	Belgavi	1600
4	Netravathy Stage I	Hasan	1500
5	Narihalla	Bellary	300
6	Shanti sagar	Davanagere	270
7	Vijayanagar	Bellary	130
8	Sankanoor	Kalaburagi	300
8	TOTAL		7600

a. PSP Under S&I

Sl. No	Name of Project	District	Agency	River		I.C. (MW)	Sector	Remarks
				Upper reservoir	Lower Reservoir			
1	Narihalla	Bellary	JSW Energy	Upper Reservoir is proposed on minor rivulet draining into Narihalla Reservoir	Lower Reservoir- Narihalla Reservoir existing on Narihalla River	300	Private	• Target date of DPR preparation- 06/25 • Date of MOA-28.11.2022
2	Saundatti	Belgavi	Greenko	Upper Reservoir is proposed Off Stream	Lower Reservoir is on RenukaSagar which is existing on Malaprabha river	1600	Private	• Target date for preparation of DPR – 12/24 • Date of MOA-12.03.18. Revised approval on 27.02.19
2	TOTAL					1900.00		

b. PSP concurred by CEA and yet to be taken up for construction.

Sl. No	Name of Project	District	Agency	River		I.C. (MW)	Sector	Remarks
				Upper reservoir	Lower Reservoir			
1	Sharavathy	Shimoga & Uttara Kannada	KPCL	Upper Reservoir is on Existing Talakalale reservoir	Lower Reservoir is on Existing Gerusappa reservoir	2000.00	State	
1	TOTAL					2000.00		

c. Balance Capacity

Sl. No	Name of Project	District	Agency	River		I.C. (MW)	Remarks	
				Upper reservoir	Lower Reservoir			
1	Varahi	Dakshina Kannada	Govt. of Karnataka allotted to KPCL	Varahi		1500.00	• Indicated by MoP and allotted by Govt. of Karnataka to KPCL. • Existing Varahi pick-up Dam as upstream reservoir. • Lower reservoir to be constructed.	
2	Netravathy Stage I	Hasan	Yet to be allotted by the State for development	Kaginahare	Kempohle	1500	• Indicated by MoP to NTPC • PFR prepared	
3	Shanti Sagar	Davanagere	Cerulean Energy Solutions Private Limited			270	• Proposal not yet received in CEA • Agency- Cerulean Energy Solutions Private Limited • Date of grant of TOR-17.01.2020	
4	Vijayanagar	Bellary	JSW Renewable Energy (Vijayanagar) Limited			130	• Proposal not yet received in CEA • Agency- JSW Renewable Energy (Vijayanagar) Limited • Date of grant of TOR-03.06.2022	
5	Sankanoor	Kalaburagi	Cerulean Energy Solutions Private Limited			300	• Proposal not yet received in CEA • Agency- Cerulean Energy Solutions Private Limited • Date of grant of TOR-07.08.2023	
5	TOTAL					3700.00		

Summary of Hydro Power Development in Kerala

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		23	2472.75
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	14	2048.5
B	Projects under construction	3	140
C	Balance Capacity*	7	1219

*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pumped Storage Projects		2	1200
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	Balance	2	1200

I. Conventional Projects

Details of Exploitable Hydro Power Projects

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Kuttiyadi (Kuttiyadi)	Kuttiyadi	S	75
2	Kuttiyadi Extension (Kuttiyadi)	Kuttiyadi	S	50
3	Kuttiyadi Addl. Extension (Kuttiyadi)	Kuttiyadi	S	100
4	Chalipuzha	Baypore	S	80
5	Idukki (Idukki I&II & Idukki III)	Periyar	S	780
6	Lower Periyar	Periyar	R(P)	180
7	Pallivasal (Pallivasal Replacement)	Muthirapuzha	S	37.5
8	Pallivasal Extension	Muthripuzha	R	60
9	Thottiyar	Thottiyar	R	40
10	Sengulam	Periyar (Muthripuzha)	S	51.2
11	Panniar	Panniar	S	32.4
12	Neriamangalam	Muthripuzha	S	52.65
13	Manali	Idamalayar	S	26
14	Kudal	Idamalayar	S	56
15	Idamalayar	Idamalyar	S	75
16	Sholaiyar	Sholayar	S	54
17	Poringalkuthu (Proringalkuthu (L.B.))	Chalakudy	S	36
18	Athirapilly (Adirapally)	Chalakudy	R	163
19	Sabarigiri	Pamba	S	340
20	Kakkad	Pamba	R (P)	50
21	Lower Sabarigiri	Pamba	S	68
22	Twin-Kallar (Twin Kallar Multipurpose)	Achankovil	S	26
23	Mankulam	Velacherry Ar	S	40
23	Total			2472.75

A.Hydro Electric Projects in Operation:

S. No.	Utility/Stations	I.C. (MW)	No. of units x Capacity (MW)	River	District	Type (R/S/R(P))	Sector	Year of commissioning
	KSEB							
1	IDAMALAYAR	75	(2X37.5)	IDAMALAYAR	ERNAKULAM	S	State	1987
2	IDUKKI	780	(6X130)	PERIYAR	IDUKKI	S	State	1976-1986
3	KAKKAD	50	(2X25)	PAMBA	PATHANAMTHIT TA	R(P)	State	1999
4	KUTTIYADI	75	(3X25)	KUTTIYADI	KOZHIKODE	S	State	1972
5	KUTTIYADI EXTN.	50	(1X50)	KUTTIYADI	KOZHIKODE	S	State	2001
6	KUTTIYADI ADDN EXTN	100	(2X50)	KUTTIYADI	KOZHIKODE	S	State	2010
7	LOWER PERIYAR	180	(3X60)	PERIYAR	IDUKKI	R(P)	State	1997
8	NERIAMANGLAM	237	(3X17.55)	MUTHIRAPUZHA	IDUKKI	S	State	1961-63
9	PALLIVASAL	37.5	(3X5) +(3X7.5)	MUTHIRAPUZHA	IDUKKI	S	State	1948-2001
10	PANNIAR	30	(2X15)	PANNIAR	IDUKKI	S	State	1963-2001
11	PORINGALKUTTU	32	(4X8)	CHALAKUDY	COIMBATORE	S	State	1957-1960
12	SABARIGIRI	300	(6X50)	PAMBA	PATHANAMTHIT TA	S	State	1960-1967
13	SENGULAM	48	(4X12)	MUTHIRAPUZHA	IDUKKI	S	State	1954-2001
14	SHOLAYAR	54	(3X18)	SHOLAYAR	COIMBATORE	S	State	1956-1968
14	TOTAL	2048.5						

B. H.E. Schemes under Construction:

Sl. No.	Name of Project	I.C. (MW)	Type (R/S/R(P))	River	District	Agency	Sector	Likely Commissioning
1	Pallivasal Extension	60	R	Mudirapuzha/WFR	Idukki	KSEB	State	2024-25 (Oct'24)
2	Thottiyar	40	R	Thottiyar/ WFR	Idukki	KSEB	State	2024-25 (Oct'24)
3	Mankulam	40	S	Melachery	Idukki	KSEB	State	2026-27 (May'26)
3	Total	140						

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

D. Balance Capacity

Sl. No.	Name of Project	River	I.C. (MW)	District	Type	Remarks
1	Chalipuzha	Baypore	80	Wayanad	S	
2	Manali	Idamlayar	26	Idukki	S	
3	Kudal	Idamlayar	56	Ernakulam	S	
4	Lower Sabarigiri	Pamba	68	Pathanamthitta	S	
5	Twin-Kallar	Achankovil/Kallar	26	Pathanamthitta	S	
6	Athirapilly	Chalakudy	163	Thrissur	R	
7	Idukki Extension Scheme	Periyar	800	Idukki	S	- Initially allotted to KSEB - Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
7	Total		1219			

II. Pumped Storage**Exploitable Hydro Power Potential from Pumped Storage Projects**

Sl. No.	Name of project	District	I.C. (MW)
1	Idukki	Idukki	600
2	Pallivasal	Idukki	600
2	TOTAL		1200

a. Balance Capacity

Sl. No	Name of Project	River	I.C. (MW)	Agency	District	Remarks
1	Idukki	Periyar/cheruthoni/K illi Valli Thodu	600	Yet to be allotted by the State for development	Idukki	Indicated by MoP to THDCIL Existing Idukki reservoir.
2	Pallivasal	Mudirapuzha	600	Yet to be allotted by the State for development	Idukki	Indicated by MoP to THDCIL Existing Palliavsal reservoir.
2	TOTAL		1200.00			

Summary of Hydro Power Development in Tamil Nadu

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		26	1785.20
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects In Operation	26	1778.2

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pumped Storage Projects		19	16500
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	In Operation	1	400
c	Under Construction	1	500
d	Balance Capacity	17	15600

I. Conventional Projects**Details of Exploitable Hydro Power Projects**

S.no	Name	River	Type	I.C. (MW)
1	Aliyar (Upper Aliyar)	Bharatapuzha/Aliyar	S	60
2	Sarkarpathy (Sarkarpathi)	Parabikulam	R (P)	30
3	Sholayar I	Sholayar	S	70
4	Periyar (Periyar Lake)	Periyar	S	168
5	Kodayar I	Kodayar	S	60
6	Kodayar II	Kodayar	S	40
7	Kundah-I (Avalanche Em'ld(Kundah-I))	Avalanche Stream	S	60
8	Bhavani Kattalai Barrage -I	Cauvery	R (P)	30
9	Bhavani Kattalai Barrage -II	Cauvery	R (P)	30
10	Bhavani Kattalai Barrage -III	Cauvery	R (P)	30
11	Kundah-II (Kundapallam (Kundah-II))	Kundah	S	175
12	Lower Mettur-I (Lower Mettur)	Cauvery	R (P)	30
13	Lower Mettur-II (Lower Mettur)	Cauvery	R (P)	30
14	Lower Mettur-III (Lower Mettur)	Cauvery	R (P)	30
15	Lower Mettur-IV (Lower Mettur)	Cauvery	R (P)	30
16	Mettur Dam	Cauvery	S	50
17	Mettur Tunnel	Cauvery	S	200
18	Moyar	Moyar	S	36
19	Parson's valley	Bhavani	S	30
20	Kundah-III (Pengumbahalla (Kundah-III))	Pegumbahallah	S	180
21	Kundah-IV	Bhavani	S	100
22	Pykara (Pykara (Singara))	Pykara	S	59.2
23	Pykara Ultimate	Pykara	S	150
24	Kundah-V	Bhavani	S	40
25	Papanasam	Thamirabarani	S	32
26	Suruliyar	Eervalangar	S	35
26	Total			1785.2

A. H.E. Projects in Operation:

S. No.	Utility/ Stations	No. Of stns.	No. of units x Capacity (MW)	River	Basin	District	I.C. (MW)	Type (R/S/R(P))	Sector	Year of commissioning
TANGEDCO										
1	ALIYAR	1	(1X60)	Aliyar	WFR	COIMBATORE	60	S	State	1970
2	BHAVANI KATTALAI BARRAGE-I	1	(2X15)	CAUVERY	EFR	ERODE	30	R(P)	State	2006
3	BHAVANI KATTALAI BARRAGE-II	1	(2X15)	CAUVERY	EFR	ERODE	30	R(P)	State	2013
4	BHAVANI KATTALAI BARRAGE-III	1	(2X15)	CAUVERY	EFR	ERODE	30	R(P)	State	2012
5	KODAYAR-I	1	(1X60)	KODAYAR	WFR	KANYAKUMARI	60	S	State	1970
6	KODAYAR-II	1	(1X40)	KODAYAR	WFR	KANYAKUMARI	40	S	State	1971
7	KUNDAH-I	1	(3X20)	AVLANCHE STREAM	EFR	NILGRIS	60	S	State	1960-1964
8	KUNDAH-II	1	(5X35)	KUNDAH	EFR	NILGRIS	175	S	State	1960-1965
9	KUNDAH-III	1	(3X60)	PENGUNBAHAL LAH	EFR	COIMBATORE	180	S	State	1965-1978
10	KUNDAH-IV	1	(2X50)	BHAVANI	EFR	COIMBATORE	100	S	State	1966-1978
11	KUNDAH-V	1	(2X20)	BHAVANI	EFR	NILGRIS	40	S	State	1964-1988
12	LOWER METTUR-I	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	State	1988
13	LOWER METTUR-II	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	State	1988
14	LOWER METTUR-III	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	State	1987-1988
15	LOWER METTUR-IV	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	State	1988-1999
16	METTUR DAM	1	(4X12.5)	CAUVERY	EFR	SALEM	50	S	State	1937-1946
17	METTUR TUNNEL	1	(4X50)	CAUVERY	EFR	SALEM	200	S	State	1965-1966
18	MOYAR	1	(3X12)	MOYAR	EFR	NILGRIS	36	S	State	1952-1953
19	PAPANASAM	1	(4X8)	THAMBRAPAR ANI	EFR	TIRUNELVELI	32	S	State	1944-1951
20	PARSON'S VALLEY	1	(1X30)	BHAVANI	EFR	NILGIRIS	30	S	State	2000
21	PERIYAR	1	(3X42)+ (1X35)	PERIYAR	WFR	IDUKKI	161	S	State	1958-1965
22	PYKARA	1	(3X7)+ (2X13.6)+ (1X11)	PYKARA	EFR	NILGRIS	59.2	S	State	1932-2005
23	PYKARA ULTMATE	1	(3X50)	PYKARA	EFR	NILGRIS	150	S	State	2005
24	SARKARPATHY	1	(1X30)	PARABIKULAM	WFR	KOZHICODE	30	R(P)	State	1966
25	SHOLAYAR I	1	(2X35)	SHOLAYAR	WFR	COIMBATORE	70	S	State	1971
26	SURULIYAR	1	(1X35)	ERAVANGALA R	EFR	TIRUNELVELI	35	S	State	1978
26	TOTAL	26					1778.2			

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

II. Pumped Storage**Exploitable Hydro Power Potential from Pumped Storage Projects**

Sl. No.	Name of project	I.C. (MW)	District
1	Sillahalla St.-I	1000	Nilgiri
2	Kundah Pumped Storage (Stage I,II,III&IV)	500	Nilgiri
3	Kadamparai	400	Coimbatore
4	Kodayar	500	Kanyakumari
5	Sandynalla	1200	Nilgiris
6	Upper Bhavani	1000	Nilgiris
7	Sigur	800	Nilgiris
8	Manalar	1200	Theni
9	Chattar	1100	kanyakumari
10	Karayar	1000	Tirunelveli District
11	Aliyar	700	Coimbatore
12	Palar-Porathalar	1100	Dindigul
13	Athur	300	Dindigul
14	Manjalar	500	Theni
15	Mettur	1000	Erode
16	Velimalai	1100	Kanyakumari
17	Sillahalla Stage-II	1000	Nilgiris & Coimbatore
18	Greenko TN01	1200	Tirupathur
19	Arunachalam	900	Dharamapuri and Tiruvannamalai
19	TOTAL	16500	

a. PSP In Operation

Sl. No	Name of Project	River	I.C. (MW)	Agency	District	Sector	Remarks
1	Kadamparai	Kadamapari	400	TANGEDCO	Coimbatore	State	•Status-In Operation
1	TOTAL		400				

b. PSP Under Construction

Sl. No	Name of Project	River	I.C. (MW)	Agency	Sector	District	Remarks
1	Kundah Pumped Storage (Stage I,II,III&IV)	Bhawani	500	TANGEDCO	State	Nilgiri	Likely to be Commissioned by 2025-26(Dec'25)
1	TOTAL		500				

c. Balance Capacity

Sl. No	Name of Project	River		I.C. (MW)	Agency	District	Remarks
		Upper Reservoir	Lower Reservoir				
1	Sandynalla	Kundah	Kundah	1200	Indicated by MoP to NTPC	Nilgiris	Yet to be allotted by the State for development
2	Upper Bhavani	Bhavani	Kundah	1000	Indicated by MoP to NTPC	Nilgiris	Yet to be allotted by the State for development
3	Sigur	Sigur	Sigur	800	Indicated by MoP to NTPC	Nilgiris	Yet to be allotted by the State for development
4	Manalar	Existing Manalar Reservoir	Proposed	1200	TANGEDCO along with Tractbel Pvt Ltd	Theni	Feasibility report prepared
5	Chattar	Chattar Nallah	Kodayar	1100	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Kanyakumari	PFR prepared
6	Karayar	Manpidi Ar	Thamirabarani	1000	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Tirunelveli District	PFR prepared
7	Aliyar	Aliyar River		700	PFR prepared by TANGEDCO	Coimbatore	PFR prepared
8	Palar-Porathalar	Poranthalar	Palar & Poranthalar	1100	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Dindigul	PFR prepared
9	Athur	Kodaganar	Kodaganar	300	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Dindigul	PFR prepared
10	Manjalar	Iruttar River	Manjalar	500	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Theni	PFR prepared
11	Mettur	Palar	Periya Pallam	1000	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Erode	PFR prepared
12	Velimalai	Palayar / Pazhayar	Valliyar	1100	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Kanyakumari	PFR Prepared
13	Sillahalla Stage-II	New Reservoir Lat 11°16'47.79" N Long 76°47'51.85" E	Bhavani	1000	Indicated by MoP to NTPC	Nilgiris & Coimbtore	Yet to be allotted by the State for development
14	Greenko TN01			1200	Greenko Energies Private Limited	Tirupathar	•Proposal not yet received in CEA • Agency- Greenko Energy Private Limited •Date of grant of TOR-07.06.2023
15	Arunachalam			900	Volthills Private Limited	Dharamapuri and tiruvannamalai	•Proposal not yet received in CEA • Agency- Volthills Private Limited •Date of grant of TOR-07.08.2023
16	Kodayar	Kodayar reservoir-existing	PWD's Pechiparai reservoir-existing	500	TANGEDCO	Kanyakumari	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
17	Sillahalla St.-I	on Sillahalla river	on Kundha river	1000	TANGEDCO	Nilgiris	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
17	TOTAL			15600			

Summary of Hydro Power Development in Jharkhand

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		4	300
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	3	210
B	Balance Capacity	1	90

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pumped Storage Projects		1	2800
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	Balance Capacity	1	2800

I. Conventional Projects

Details of Exploitable Hydro Power Projects

Sl.No.	Name of Project	River	Type	I. C. (MW)
1	Subernarekha-I	Subernarekha	S	65
2	Subernarekha-II	Subernarekha	R(P)	65
3	Lower Sankh	Sankh	S	90
4	Panchet (Panchet Hill)	Damodar	S	80
4	TOTAL			300

A. H.E. Projects in Operation:

S. NO.	UTILITY / STATIONS	RIVER	Type (R/S/R(P))	I.C. (MW)	DISTRICT	Sector	YEAR OF COMMISSIONING
	DVC						
1	PANCHET	DAMODAR	S	80	DHANBAD	Central	1990
	SUB-TOTAL DVC			80			
	JUUNL						
1	SUBERNREKHA -I	SUBERNAREKHA	S	65	RANCHI	State	1977
2	SUBERNREKHA -II	SUBERNAREKHA	R(P)	65	RANCHI	State	1980
	TOTAL JUUNL			130			
3	TOTAL JHARKHAND			210			

B. Balance Capacity

Sl. No.	Name of Project	River	Type	I.C. (MW)	District
1	Lower Sankh	Sankh	S	90	Simdega
1	Total			90	

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

II. Pumped Storage**Exploitable Hydro Power Potential from Pumped Storage Projects**

Sl. No.	Name of project	I.C. (MW)	District
1	Lugupahar	2800	Bokaro
1	TOTAL	2800	

a. Balance capacity

Sl. No	Name of Project	River		I.C. (MW)	District	Remarks
		Upper Reservoir	Lower Reservoir			
1	Lugupahar	Kairo Jharna Nala	across Bokaro River	2800	Bokaro	•Initially allotted to DVC (installed capacity 1500 MW) •DVC letter dated 17.11.23 infromed that S&I activity on stalled since 10.09.23 due to local resistance at site
1	TOTAL			2800		

Summary of Hydro Power Development in Bihar

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		1	130.1
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects returned to project authorities	1	130.1

I. Conventional Projects

Details of Exploitable Hydro Power Projects

S.No.	Name	River	IC	Type
1	Dagmara	Kosi	130.1	R
1	Total		130.1	

A. H.E. Projects Returned to Project Authorities for re-submission after compliance of observations:

Sl.No	Name of Project	River	I.C. (MW)	Date of returned
1	Dagmara	Kosi	130.1	22-Jan
	Total		130.1	

Summary of Hydro Power Development in Odisha

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		13	2824.50
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects In Operation	7	2154.55
B	Balance Capacity*	6	677
*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.			

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pumped Storage Projects		6	5075
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	Concurred and yet to be taken up for construction	1	600
b	Under S&I	1	500
c	Balance Capacity	4	3975

I. Conventional Projects**Details of Exploitable Hydro Power Projects**

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Bhimkund	Baitarni	S	30
2	Baljori	Baitarni	S	230
3	Lodani	Brahmani	S	64
4	Rengali	Brahmani	S	250
5	Tikarpara	Mahanadi	S	220
6	Hirakud (Burla) (Hirakud-I)	Mahanadi	S	275.5
7	Hirakud (Chiplima) (Hirakud-II)	Mahanadi	R (P)	72
8	Salki	Salki	S	70
9	Kharag	Kharag	R	63
10	Upper Indravati	Indravati	S	600
11	Upper Kolab	Kolab	S	320
12	Machkund	Machkund	S	120
13	Balimela	Sileru	S	510
13	Total			2824.5

A. H.E. Projects in Operation:

S. NO.	UTILITY/ STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER	DISTRICT	I.C. (MW)	Type (R/S/R(P))	Sector	YEAR OF COMMISSIONING
OHPC									
1	BALIMELA	1	(6X60)+(2X75)	SILERU	MALKANGIRI	510	S	State	1973-1977, 2008
2	HIRAKUD (BURLA)	1	(2X43.65)+(1X37.5)+(2X49.5)+(2X32)	MAHANADI	SAMBALPUR	287.8	S	State	1956-1990
3	HIRAKUD (CHILIMA)	1	(3X24)	MAHANADI	SAMBALPUR	72	R(P)	State	1962-1964
4	RENGALI	1	(5X50)	BRAHMANI	ANGUL	250	S	State	1985-1992
5	UPPER INDRAVATI	1	(4X150)	INDRAVATI	KALAHANDI	600	S	State	1999-2001
6	UPPER KOLAB	1	(4X80)	KOLAB	KORAPUT	320	S	State	1988-1993
TOTAL OHPC		6				2039.8			
APGENCO									
1	MACHKUND	1	(3X17)+(3X21.25)	MACHKUND	KORAPUT	114.75	S	State	1959
SUB-TOTAL APGENCO		1							
7	TOTAL ODISHA	7				2154.55			

Note: Hirakud (Burla & Chilima) and Rengali are in CIR basin & others are in EFR Basin.

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

B. Balance Capacity

Sl.No.	Name of Project	River	Type	I.C. (MW)	District	Remarks
1	Bhimkund	Baitarni	S	30	Keonjhar	
2	Baljori	Baitarni	S	230	Keonjhar	
3	Lodani	Brahmani	S	64	Sundergarh	
4	Tikkarpara	Mahanadi	S	220	Angul	
5	Salki	Salki	S	70	Boudh	•Initially allotted to OHPCL • Project was shifted to S&I held up as no progress in the S&I activities of project reported by developer.
6	Kharag	Kharag	R	63	Kandhmal	•Initially allotted to OHPCL • Project was shifted to S&I held up as no progress in the S&I activities of project reported by developer.
6	Total			677		

VI. Pumped Storage**Exploitable Hydro Power Potential from Pumped Storage Projects**

Sl. No.	Name of project	I.C. (MW)	District
1	Upper Indravati	600	Kalahandi
2	Balimela	500	Malkangiri
3	Upper Kolab	600	Malkangiri
4	Greenko OD01	1200	Kalahandi
5	Ramial Left	1500	Keonjhar
6	Tainsar	675	Deogarh
6	TOTAL	5075	

a. PSP Concurred by CEA and yet to be taken for construction

Sl. No	Name of Project	River		I.C. (MW)	Agency	District	Sector
		Upper Reservoir	Lower Reservoir				
1	Upper Indravati	Upper Indravati HEP reservoir	To be constructed	600	OHPCL	Kalahandi	State
1	TOTAL			600			

b. PSP under S&I

Sl. No.	Name of Project	Agency	River		I.C. (MW)	Sector	Remarks
			Upper Reservoir	Lower Reservoir			
1	Balimela	OHPCL	Balimela upper reservoir	To be constructed on Kharika Johra Stream	500	State	• Target date of DPR Preparation- 09/25
1	TOTAL				500		

b. Balance Capacity

S.No.	SCHEMES	Agency	River		District	I.C. (MW)	Remarks
			Upper Reservoir	Lower Reservoir			
1	Greenko OD01	Greenko Energies Private Limited			Kalahandi	1200	•Proposal not yet received in CEA • Agency- Greenko Energies Private Limited •Date of grant of TOR-17.04.2023
2	Ramial Left	Renew Solar Power Private Limited			Keonjhar	1500	•Proposal not yet received in CEA • Agency- Renew Solar Power Private Limited •Date of grant of TOR-15.01.2024
3	Tainsar	Jindal Renewable Power Private Limited			Deogarh	675	•Proposal not yet received in CEA • Agency- Jindal Renewable Power Private limited •Date of grant of TOR-22.01.2024
4	Upper Kolab	OHPCL	Upper Reservoir is existing on Balimela HEP reservoir (Existing Hydro Project)	To be constructed.	Koraput	600	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
4	Total					3975	

Summary of Hydro Power Development in West Bengal

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		10	809.2
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	5	441.2
B	Projects under construction	1	120
C	Projects under S&I	1	90
D	Balance Capacity*	3	196

*The capacity yet to be allotted by the State for development is different from arithmetic calculation from the potential accessed due to change in capacity of the projects, addition/deletion of the projects and merger of two projects into one etc.

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pumped Storage Projects		6	5500
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	In Operation	1	900
b	Concurred	1	1000
c	Balance	4	3600

I. Conventional Projects**Details of Exploitable Hydro Power Projects**

S.no	Name	River	Type	Installed Capacity(MW)
1	Rammam I	Rammam	R	60
2	Rammam II	Rammam	R	50
3	Rammam III	Rammam	R	120
4	Tessta Low dam -IV (Teesta High Dam)	Teesta	R (P)	160
5	Teesta Low Dam III	Teesta	R (P)	132
6	TLDP- I&II	Great Rangit	R	56
7	Teesta Intermediate	Teesta	R	52
8	Teesta Low Dam Project V	Teesta	R	80
9	Jaldhaka (Jaldhaka I)	Jaldhaka	R (P)	36
10	Maithon	Barakar	S	63.2
10	TOTAL			809.2

A. H.E. Projects in Operation:

Sl.No.	Name of Project	Agency	District	River /Basin*	I. C.	Type (R/S/R(P))	Sector	Year of Commissioning
1	Jaldhaka	WBSEDCL	KALIMPONG	Jaldhaka	36	R(P)	State	1967- 72,2012
2	Rammam-II	WBSEDCL	DARJEELING	Rammam	50	R	State	1995-96
3	Teesta Low Dam-III	NHPC	DARJEELING	Teesta	132	R(P)	Central	2013-14
4	Maithon	DVC	WEST DHANBAD	Basakar	63.2	S	Central	1957-58
5	Teesta Low Dam-IV	NHPC	DARJEELING	Teesta	160	R(P)	Central	2016
5	Total				441.2			

* Maithon is in Ganga and others are in Brahmaputra Basin.

B. H.E. Projects under Construction:

Sl. No.	Name of Project	Agency	District	River	I. C. (MW)	Type (R/S/R(P))	Sector	Likely Commissioning
1	Rammam-III	NTPC	Darjeeling	Ramman	120	R	Central	2028-29 (Mar'29)
1					120			

C. H.E. Projects Under Survey & Investigation:

Sl. No.	Name of Project	Basin/River	Agency for DPR	I.C. (MW)	District	Type (R/S/R(P))	Sector	Target date of Preparation of DPR
1	Teesta Intermediate	Teesta	WBSEDCL	90	Darjeeling	ROR	State	09/24
1				90				

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

D. Balance Capacity

Sl.No.	Name of Project	River	Type	I.C.(MW)	District	Remarks
1	Rammam-I	Rammam	RoR	60	Darjeeling	
2	Teesta Low Dam Project V	Teesta	RoR	80	Darjeeling	
3	TLDP-I&II	Badi rangit	RoR	56	Darjeeling	• The project was allotted to NHPC. However, withdrawal of consent for the project by Govt. of Sikkim on 30.01.2017.
3	Total			196		

Note: R –Run of the River

II. Pumped Storage

Exploitable Hydro Power Potential from Pumped Storage Projets

Sl. No.	Name of project	I.C. (MW)	District
1	Kulbera	800	Purulia
2	Bandhu	900	Purulia
3	Panchet Hill	1000	Purulia
4	Purulia	900	Purulia
5	Turga PSS	1000	Purulia
6	Kathlajal	900	Purulia
6	TOTAL	5500	

a. PSP In Operation

Sl. No	Name of Project	River	I.C. (MW)	Agency	District	Sector	
1	Purulia	Kisto Bazar Nalla	900	WBSEDCL	Purulia	State	
1	TOTAL		900				

b. PSP Concurred by CEA

Sl. No	Name of Project	River	I.C. (MW)	Agency	District	Sector	Remarks
1	Turga	Turga Nala	1000	WBSEDCL	Purulia	State	•Date of concurrence-05.10.2016 •EC accorded on 02.07.2018. FC-I accorded on 12.04.18 and FC-II accorded on 13.10.2022.
1	TOTAL		1000				

c. Balance Capacity

Sl. No	Name of Project	River		I.C. (MW)	Agency	District	Remarks
1	Kulbera	Rupai Nala	Kulbera Nala	800	Indicated by MoP to DVC	Purulia	Yet to be allotted by the State for development
2	Bandhu	Bandhu Nala	Bandhu Nala	900	WBSEDCL	Purulia	PFR under preparation
3	Panchet Hill	Panchet Reservoir	Panchet Reservoir	1000	Indicated by MoP to DVC	Purulia	Yet to be allotted by the State for development
4	Kathlajal	Kathlajal nala	Kathlajal nala	900	WBSEDCL	Purulia	Yet to be taken up under S&I
4	TOTAL			3600			

Summary of Hydro Power Development in Sikkim

I. Conventional projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		34	6051
Breakup of Hydro power Potential (2017-23)			
A	Projects in operation	8	2282
B	Projects under construction	2	620
C	Projects concurred by CEA and yet to be taken up for construction	1	520
D	Balance Capacity*	23	2629

*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

I. Conventional projects

Details of Exploitable Hydro Power Projects

S.no	Name	River	Type	I.C. (MW)
1	Kalep	Tista	R	54
2	Talem	Tista	R	44
3	Jedang	Lhonak	R	160
4	Teesta-I (zeema)	Teesta	R	320
5	Serum	Sebokung	R	115
6	Lachung	Lachung	R	75
7	Teesta-II	Lachen Chu	R	410
8	Lachen (Chunthang)	Teesta	R	160
9	Ringpi	Ringpi	R	120
10	Rukel	Rongni chu	R	26
11	Rangyong	Rongni chu	R	248
12	Panan	Toulng	R	300
13	Teesta-III (Singhik)	Teesta	R (P)	1200
14	Teesta St-IV (Mangan)	Teesta	R (P)	520
15	Dikchu	Dikchu	R (P)	96
16	Teesta- V (samdong)	Teesta	R (P)	510
17	Lower lagyap	Rongni	R	26
18	Chhot pathing	Rangpo	R	55
19	Rongnichu (Rongni Storage)	Rangpo	R	113
20	Mana	G. Rangit	R	44
21	Lethang (Yoksam)	Ranhang chu	R	98
22	Namlum	G. Rangit	R	50
23	Rangit -III (Gompa+ Ligship)	Rangit	R (P)	60
24	Chujachen	Rangpo	R (P)	110
25	Jorethang Loop	Rangit	R (P)	96
26	Rangit-II	Rimbi	R	66
27	Teesta-VI	Teesta	R	500
28	Rangit-IV	Rangit	R	120
29	Bhasmey	Rangpo	R	51
30	Tashiding	Ranhang chu	R (P)	97
31	Kalez Khola	KalezKhola	R	34
32	Suntalevtar	Rangpo Chu	R	32
33	Bimkyong	Lachung Chu	R	66
34	BOP	Lachung Chu	R	75
34	TOTAL			6051

A. H.E. Projects in Operation:

S. NO.	UTILITY/ STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER / BASIN*	DISTRICT	I.C. (MW)	Type (R/S/R(P))	Sector	YEAR OF COMMISSIONING
	NHPC								
1	RANGIT	1	(3X20)	Teesta	GANGTOK	60	R(P)	Central	2000
2	TEESTA-V	1	(3X170)	TEESTA	EAST SIKKIM	510	R(P)	Central	2008
	SUB-TOTAL NHPC	2				570			
	STATE								
	TEESTA URJA LTD. (TUL)								
3	TEESTA-III	1	(6X200)	TEESTA	NORTH SIKKIM	1200	R(P)	State	2017
	SUB-TOTAL TUL	1				1200			
	PRIVATE								
	GIPL (GATI INFRA PRIVATE LTD.)								
4	CHUZACHEN	1	(2*55)	RONGLI & RANGPO	EAST SIKKIM	110	R(P)	Private	2013
	SNEHA KINETIC POWER PROJECTS PVT LTD (SKPPPL)								
5	DIKCHU	1	(2*48)	Rangpo	EAST SIKKIM	96	R(P)	Private	2017
	SHIGA ENERGY PVT LTD (SEPL)								
6	TASHIDING	1	(2*48.50)	RATHANG CHU	WEST SIKKIM	97	R(P)	Private	2017
	DANS ENERGY PVT LTD. (DEPL)								
7	JORETHANG LOOP	1	(2*48)	RANGIT	SOUTH /WEST	96	R(P)	Private	2015
	Madhya Bharat Pvt Company (MBPC)								
8	RONGNICHU	1	2*56.5	Rangpo	EAST SIKKIM	113	R	Private	2021
	SUB-TOTAL PRIVATE	5				512			
8	TOTAL SIKKIM	8				2282			

* All projects are in Brahmaputra Basin

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

B. H.E. Projects under Construction:

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River/ Basin	Type (R/S/R(P))	Sector	Likely commissioning
1	Teesta St. VI	NHPC	South Sikkim	500	Teesta/ Brahmaputra	R	Central	2027-28 (Dec'27)
2	Rangit-IV	NHPC	West Sikkim	120	Rangit/ Brahmaputra	R	Central	2025-26 (may'25)
2	Total			620				

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

C. H.E. Projects concurred by CEA and yet to be taken up for construction:

Sl. No	Name of Project	Agency	District	I.C. (MW)	River	Type (R/S/R(P))	Date of CEA Concurrence	Sector	Status
1	Teesta St-IV	NHPC	North Sikkim	520	Teesta	R(P)	13.05.10	Central	EC accorded on 09.01.14. FC-I accorded on 26.02.13. FC-II is yet to be obtained. . #
1	Total			520					

• NHPC on. 21.8.2020 has requested DC (North), Sikkim to intervene into the matter of pending Gram Sabha meetings at remaining 3 GPU's for settlement of rights under FRA, 2006.

• NHPC vide letter dt. 15.03.2021 has again requested DC (North), Sikkim to intervene into the matter of pending Gram Sabha meetings at remaining 3 GPU's and completion of settlement of rights under FRA, 2006 • CMD, NHPC along with Senior Officers of NHPC had a meeting with Chief Secretary & Addl. Chief Secretary of Sikkim on 02.03.2021 and with Hon'ble CM of Sikkim on 20.03.21. During the meetings, various pending issues related to the project were discussed and they assured all possible cooperation and assistance of the State Government to NHPC

• CMD, NHPC vide DO letter dated 24.05.2021

has requested Hon'ble Minister, Rural Development, Cooperation and Ecclesiastical department, Govt. of Sikkim for expeditious resolution of issues related Forest Clearance St-II and private land acquisition of Teesta-IV HEP.

• CMD, NHPC met Hon'ble Chief Minister, Sikkim on 29.10.2022 to discuss early implementation of Teesta Stage-IV HE Project. NHPC vide letter dated 12.11.2022 requested Chief Secretary, Govt of Sikkim for completion of remaining Gram Sabha meetings and process of settlement of rights.

• A meeting was chaired by Hon'ble Minister of Power and NRE and attended by Secretary (Power), CMD, NHPC and senior officials of MoP & NHPC on 16.02.23 wherein issues related to pending compliance of Forest Clearance Stage-I w.r.t consent under FRA-2006 in remaining 3 GPUs was discussed.

• NHPC vide letter dt. 05.12.2023 again requested the District Collector, Mangan to fix a timeline for conducting the Gram Sabha meetings in remaining 3 GPUs.

Rehabilitation and Resettlement Committee has been constituted by the Govt of Sikkim on 03.08.2023. Chief Secretary during meeting on 11.12.2023 , directed land revenue department to initiate a proposal for further extension of the period for declaration under Section 19of RFCTLARR Act'2013.

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

D. Balance Capacity

SLNo.	Name of Project	River	Type (R/S/R(P))	I.C. (MW)	District	Reamrks
1	Kalep	Tista	R	54	North Sikkim	
2	Talem	Tista	R	44	North Sikkim	
3	Jedang	Lhonak	R	160	North Sikkim	
4	Teesta-I (zeema)	Tista	R	320	North Sikkim	
5	Serum	Sebokung	R	115	North Sikkim	
6	Lachung	Lachung	R	75	North Sikkim	
7	Ringpi	Ringpi	R	120	North Sikkim	
8	Rukel	Rongnichu	R	26	North Sikkim	
9	Rangyong	Rongnichu	R	248	North Sikkim	
10	Chhota Pathing	Rongpo	R	55	East Sikkim	
11	Mana	G.Ranjit	R	44	South Sikkim	
12	Namlum	G.Ranjit	R	50	North Sikkim	
13	Lower Lagyap	Rongpi	R	26	East Sikkim	
14	Teesta St-II	Lachen chu	R	410	North Sikkim	
15	Lachen (Chunthang)	Teesta	R	160	North Sikkim	
16	Bimkyong	Lachung Chu	R	66	North Sikkim	
17	BOP	Lachung Chu	R	75	North Sikkim	
18	Lethang (Yoksam)	Ranthing chu	R	98	West Sikkim	
19	Kalez khola	Kalez Khola	R	34	West Sikkim	•Project was in S&I held up due to objection raised by local people against Topographical Survey.
20	Suntaleytar	Rangpo Chu	R	32	East sikkim	•Initially allotted to Hindustan Electric Power Ltd. •Project was in S&I Held up as MOA was not finalised
21	Bhasmey	Rangpo	R	51	East Sikkim	•Initially allotted to Gati Infra pvt ltd • Matter is sub-judice. The Court appointed Resolution Professional for Bhasmey HEP stated that works stalled since Sept., 2016. CIRP has been initiated against Gati infra and NCLT has appointed Resolution Professional .The Resolution Professional has received 4 Resolution Plan in the matter of Gati Infrastructure Bhasmey Power Private Limited and are pending for approval from the Committee of Creditors. Project is likely to be commissioned 4 years after restart of works.
22	Rangit-II	Rangit	R	66	West Sikkim	•Initially allotted to Sikkim hydro Power Venture Ltd • Works stalled since Dec., 2017. Funds constraints with the developer. Project is likely to be commissioned 3 years after restart of works
23	Panan	Touling	R	300	North Sikkim	•Initially allotted to Himagiri Hydro Energy Pvt ltd •Accessibility to Project site. The permanent bridge over Mantam Lake for accessibility to Dam site is being constructed by Sikkim PWD which is likely to be completed by Nov' 2024. The Financial Institutes are awaiting for completion of bridge, thereafter the process of financing the project can start. .Project is likely to be commissioned 5 years after restart of works.
23	Total			2629		

Summary of Hydro Power Development in Meghalaya

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		22	2026
Breakup of Hydro Power Potentia (2017-23 Study)			
A	Projects In Operation	5	322
B	Projects concurred by CEA and yet to be taken up for construction	1	85
C	Projects under S&I	2	270
D	Balance Capacity*	14	1488

*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

I. Conventional Projects

Details of Exploitable Hydro Power Projects

S. No.	Name	River	Type	Installed Capacity
1	Kyrdamkulai (Umiam Umtru-III)	Umtru	R(P)	60
2	Umiam (Umtru) St IV	Tail Water of Umiam st. III	R(P)	60
3	Umium-Ummtru VI	Umtru	S	39
4	Umlamphang	Umiam	R	28
5	Umiam Stage -I	Umiam	S	36
6	New Umtru	Umtru	R(P)	40
7	Selim	Myntdu	R	54
8	Umanghot (Umngot Stor.)	Umngot	R	220
9	Umjaut	Umiew	R	72
10	Umduna (Umduma)	Umiam	R	60
11	Wah Umiam Stage-III (Mawhu+ Nonglyngkien)	Umiew	R	85
12	Umngi Stage-I (Umngi Storage+ Rangmaw)	Umngi	S	30
13	Nongam	Umngi	R	165
14	Mawpat	Umngi	R	30
15	Kynshi II (Mawthaba)	Kynshi	R	278
16	Kynshi I (Mawsyrpat+ Kynshi -I storage)	Kynshi	S	270
17	Nangmawlar (Nongmawlar)	Kynshi	R	106
18	Mawblei Storage	Wahblei	S	110
19	Simsang Dam P/H	Someshri	S	66
20	Amagam Storage	Rongdi	S	26
21	Myntdu Leshka stage I	Myntdu	R(P)	126
22	Myntdu Leshka St-II	Myntdu	R	65
22	TOTAL			2026

A. H.E. Projects in Operation:

S. No.	Utility/Stations	No. of Stns.	No. of units x Capacity (MW)	River / Basin*	District	I.C. (MW)	Type (R/S/R(P))	Sector	Year of commissioning
	MePGCL								
1	KYRDEMKULAI	1	(2X30)	Umtru	RI-BHOI	60	R(P)	State	1979
2	UMIAM ST-I	1	(4X9)	UMIAM	RI-BHOI	36	S	State	1965
3	NEW UMTRU	1	(2X20)	UMTRU	RI-BHOI	40	R(P)	State	2017
4	UMIAM ST-IV	1	(2X30)	Tail water of Stage-III PH & own catchment	RI-BHOI	60	R(P)	State	1992
5	MYNTDU ST-I	1	(3X42)	MYNTDU	JAINTIA HILLS	126	R(P)	State	2011 2013
5	TOTAL MePGCL	5				322			

* All projects are in Brahmaputra Basin

B. H.E. Projects concurred by CEA and yet to be taken up for construction:

Sl No.	Name of Project	Agency	Date of CEA Concurrence	District	I.C. (MW)	Type (R/S/R(P))	Sector	Status
1	Wah Umiam Stage-III	NEEPCO	26.07.2021	East Khasi Hills	85	R	Central	EC recommended by EAC on 26.02.2018. However, EC will be issued immediately on submission of Stage-I Forest Clearance. FC yet to be obtained.
1	Total				85			

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

C. H.E. Projects Under Survey & Investigation:

Sl. No.	Name of Project	River	Agency	I.C. (MW)	District	Type (R/S/R(P))	Sector	Date of MOA	Target date of Preparation of DPR
1	Myntdu Leshka st-II	Myntdu	MePGCL	210	West Jaintia Hills	R	State	30.01.2017	09/24
2	Simsang Dam Project	Somershwari	Brahmaputra Board	60	South Garo Hills	S	Central		
2	Total			270					

D. Balance Capacity

Sl.No.	Name of Project	River	Type	I.C (MW)	District	Reamrks
1	Umium-Ummtru VI	Umtru	S	39	Ri-Bhoi	
2	Umlamphang	Umiam	R	28	Ri-Bhoi	
3	Nongam	Umngi	R	165	East Khasi Hills	
4	Mawpat	Umngi	R	30	West Khasi Hills	
5	Nangmawlar	Kynshi	R	106	West Khasi Hills	
6	Amagam Storage	Rongdi	S	26	East Garo hills	
7	Umjaut	Umiew	R	72	Umiew	
8	Umduna (Umduma)	Umiam	R	60	Umiam	
9	Umngi Stage-I (Umngi Storage+ Rangmaw)	Umngi	S	30	Umngi	
10	Kynshi I (Mawsyrapat+ Kynshi -I storage)	Kynshi	S	270	Kynshi	
11	Mawblei Storage	Wahblei	S	110	Wahblei	
12	Umanghot (Umngot Stor.)	Umngot	R	220	Umngot	
13	Kynshi-II	Kynshi	R	278	West Khasi Hills	- Initially allotted to GoMe & Jaiprakash Power Venture Ltd. (JV) - Project was in S&I held up on account of non-finalisation of dam location/height due to deposit of Uranium. I.C. revised to 325 MW. GoMe informed vide their letter dated 28.11.2019 that project has been kept in abeyance since 2012 due to presence of Uranium deposits within the Dam & Reservoir areas of the project.
14	Selim	Myntdu	R	54	East & West jantia Hills	- Initially allotted to MePGCL - Project held up due to irregular allocation/release of funds, the hostile terrain, non and non-availability of geologists from GSI, India. MePGCL vide their letter dated 01.11.2019 informed that installed capacity is likely to be 60 MW. Report on Site Specific Design Earthquake Parameters submitted to CWC on 30.11.21 by developer.
14	Total			1488		

Note: R –Run of the River & S- Storage

Summary of Hydro Power Development in Tripura

No Large Hydroelectric Project has been identified in the Tripura State. However, a small Hydel power station in south Tripura named Gumti Hydel project having only 3x5 MW capacities. The details are as under:

Name of Project	Unit	Installed Capacity (MW)	Year of Installation	Phase	RIVER	TYPE
Gumti H.E. Project	Unit-I	5.00 MW	1976	Phase I	Gumti	S
	Unit-II	5.00 MW	1976			
	Unit-III	5.00 MW	1984	Phase II		

Summary of Hydro Power Development in Manipur

I. Conventional Projects

		Nos.	Capacity (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		9	615
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	1	105
B	Balance Capacity*	8	510

*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

I. Conventional Projects**Details of Exploitable Hydro Power projects**

S. No.	Name	I.C. (MW)	River	Type
1	Khongem Chakha II	40	Barak	S
2	Khongem Chakha III	28	Barak	R
3	Irang	60	Irang	S
4	Pabaram	213	Barak	S
5	Nungnag	28	Irang	S
6	Loktak D/s (Khunou)	66	Leimatak	R
7	Loktak	105	Imphal	S
8	Thinghat	45	Tuival	S
9	Maklang - Tuyungbi	30	Maklang Tuyungbi	S
9	TOTAL	615		

A. H.E. Projects in Operation:

Sl.No.	Name of Project	Agency	I. C. (MW)	River/ Basin	District	Type (R/S/R(P))	Sector	Year of Commissioning
NHPC								
1	Loktak	NHPC	105	Leimatak / Brahmaputra	Imphal	S	Central	1983
1	Total		105					

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

B. Balance Capacity

Sl.No.	Name of Project	I.C.(MW)	River	District	Type
1	Khongnem Chakha-II	40	Barak	Senapati	S
2	Khongnem Chakha-III	28	Barak	Senapati	R
3	Nungnag	28	Irang	Tamenglong	S
4	Thinghat	45	Tuivai	Churachandpur	S
5	Irang	60	Irang	Tamenglong	S
6	Pabaram	213	Barak	Tamenglong	S
7	Maklang - Tuyungbi	30	Maklang & Tuyungbi	Ukhrul	S
8	Loktak D/S (Khunou)	66	Leimetak	Tamenglong	R
8	Total	510			

Note: R –Run of the River & S- Storage

Summary of Hydro Power Development in Assam

I. Conventional Projects

		Nos.	Capacity (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		8	643
Breakup of Hydro Power Potential (2017-23 study)			
A	Projects in operation	3	350
B	Projects under construction	1	120
C	Projects returned to project authorities	1	60
D	Balance Capacity*	3	143

*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pumped Storage Projects		1	320
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	Balance Capacity	1	320

I. Conventional Projects

Details of Exploitable Hydro Power Projects

S.no	Name	River	Type	Installed Capacity (MW)
1	Dilli (Dilli Stor.)	Disang	S	28
2	Diyung Dam P/H	Jamuna	S	45
3	Khandong (Kopili-I)	Kopili	S	50
4	Kopili (Kopili II)	Umrang	S	200
5	Amring	Amring	S	70
6	Karbi Langpi (Upper Borpani)	Borpani	S	30
7	Karbi langpi (Lower Borpani)	Borpani	R(P)	100
8	Lower Kopili	Kopili	R	120
8	TOTAL			643

A. H.E. Projects in Operation:

S.No	UTILITY/ STATIONS	NO. OF STATION S	No. of Units	NO. OF UNITS X CAPACITY (MW)	RIVER/ BASIN*	DISTRICT	I.C. (MW)	Type (R/S/R(P))	Sector	YEAR OF COMMISSIONING
	NEEPCO									
1	KOPILI	1	4	(4X50)	Umrong	DIMA HASAO	200	S	Central	1988 -1997
2	KHONDONG	1	2	(2X25)	KOPILI	DIMA HASAO	50	S	Central	1984
	SUB-TOTAL NEEPCO	2	6				250			
	APGCL									
3	KARBI LANGPI [Lower Borpani]	1	2	(2X50)	BORPANI	KARBI ANGLONG	100	R(P)	State	2007
	SUB-TOTAL APGCL	1	2				100			
3	TOTAL ASSAM	3	8				350			

* All projects are in Brahmaputra Basin

B. H.E. Projects under construction:

Sl No.	Name of Project	Agency	River / Basin	District	I.C.(MW)	Type (R/S/R(P))	Sector	Likely Commissioning
1	Lower Kopili	APGCL	Kopili / Brahmaputra	Karbi Anglong & Dima Hasao	120	R	State	2025-26 (Oct'25)
1	Total				120			

Note :R= Run of River, S=Storage & R(P)= Run of River with Pondage

C. H.E. Projects Returned to Project Authorities for re-submission after compliance of observations:

Sl. No	Name of Project	Agency	Sector	I.C. (MW)	Month of Return/Reason of Return
1	Karbi Langpi (Upper Borpani)	ASEB	State	60	Returned on 12/08 due to involvement of interstate aspects with Meghalaya, updated hydrology not been utilized for carrying out power potential study, cost estimates not framed at current PL and inadequate geological investigations etc.
1	Total			60	

D. Balance Capacity

Sl.No.	Name of Project	River	Type	I.C.(MW)	District
1	Dilli Stor.	Disang	S	28	Dibrugarh
2	Diyung Dam P/H	Diyung	S	45	Cachar
3	Amring	Amring	S	70	Karbi Anglong
3	Total			143	

Note: R –Run of the River & S- Storage

II. Pumped Storage

Exploitable Hydro Power Potential from Pumped Storage Projets

Sl. No.	Name of project	District	I.C.(MW)
1	Kopili	Dima Hasao	320
1	Total		320

a. Balance Capacity

Sl. No	Name of Project	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Kopili	Indicated by MoP to NEEPCO	Dima Hasao	Khandong	Umrong	320	Yet to be allotted by the State for development
1	Total					320	

Summary of Hydro Power Development in Nagaland

I. Conventional Projects

		Nos.	Capacity (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		4	325
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	1	75
B	Projects concurred by CEA and yet to be taken up for construction	1	186
C	Balance Capacity	2	64

Details of Exploitable Hydro Power Projects

S.no	Name	River	Type	Installed Capacity (MW)
1	Dikhu (Dikhu Dam P.H.)	Dikhu	Seasonal Storage cum Run-of River	186
2	Yangnyu (Yangnyu Stor.)	Yangnyu	S	36
3	Jhanzi Storage	Jhanzi	S	28
4	Doyang (Doyang V)	Doyang	S	75
4	TOTAL			325

A. H.E. Projects in Operation:

S. No.	Utility/Stations	Agency	No. of units x Capacity (MW)	River / Basin	District	I.C.(MW)	Type (R/S/R(P))	Sector	Year of commissioning
	NEEPCO								
1	DOYANG	NEEPCO	(3X25)	DOYANG / Brahmaputra	WOKHA	75	S	Central	2000
1	TOTAL NAGALAND	1				75			

B. H.E. Projects concurred by CEA and yet to be taken up for construction:

Sl No.	Name of Project	Agency	Date of CEA Concurrence	River / Basin	District	I.C. (MW)	Type (R/S/R(P))	Sector	Status
1	Dikhu	NMPPL	31.03.2014	Dikhu / Brahmaputra	Longleng	186	Seasonal S cum R	Private	EC yet to be obtained by developer. TOR issued on 27/12/2018. FC not applicable as forest land is not involved.#
1	Total					186			

EIA/EMP studies are in progress and are likely to be completed soon. Consent of PPA as per CERC Tariff is obtained. Govt. of Nagaland has forwarded PPA tariff calculations for the approval of Nagaland Regulatory Commission. CEA vide letter dated 21.09.2023 extended validity of Concurrence upto 31.03.2025

C. Balance Capacity

Sl.No.	Name of Scheme	River	District	I.C.(MW)	Type
1	Yangnyu (Yangnyu Stor.)	Yangnyu	Longleng	36	S
2	Jhanji storage	Jhanji	Mokokchung	28	S
2	Total			64	

Note: R –Run of the River & S- Storage

Summary of Hydro Power Development in Arunachal Pradesh

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		109	50394.00
Breakup of Hydro Power Potential (2017-23 Study)			
A	Projects in operation	3	1115
B	Projects under construction	2	4880
C	Projects concurred by CEA and yet to be taken up for construction	14	13798
D	Projects returned to project authorities	12	3523
E	Projects under S&I	9	19991
F	Balance Capacity*	68	9694

*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pumped Storage Projects		1	660
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	Balance Capacity	1	660

I. Conventional Projects

Details of Exploitable Hydro Power Projects

S.no	Name	River	Type	Installed Capacity
1	Mihundon	Dri	R	226
2	Amulin	Matun	R	212
3	Emini	Matun	R	326
4	Agoline	Dri	R	220
5	Attunli	Tangon	R(P)	680
6	Etalín	Dri& Tangon	R	3097
7	Emra-I	Emra	R	450
8	Emra-II	Emra	R	210
9	Elango	Ahi	R	128
10	Dibang (Dibang Stor.)	Dibang	S	2880
11	Sissiri (Sesseri)	Sesseri	S	60
12	Ithun I	Ithun	R	76
13	Ithun II	Ithun	R	48
14	Etabue	Ange Pani	R	122
15	Jidu (Yangsang)	Yangsang	R	90
16	Rigong	Ringong	R	85
17	Mirak	Sigong	R	78
18	Pango (Minnying)	Sirapatang	R	72
19	Pauk	Yarjep	R	128
20	Heo	Yarjep	R	240
21	Hirong	Siyom	R	500
22	Tato-II	Siyom	R(P)	700

23	Tato-I	Yarjep	R	186
24	Naying	Siyom	R	1000
25	Yamne-I	Yamne	R	106
26	Yamne St II	Yamne	R	70
27	Lower Siang (Passighat)	Siang	R(P)	2700
28	Siyom (Middle) (Passighat)	Siyom	R	1000
29	Tagurshit	Tagurshit	R	52
30	Pemashelphu	Yargyap Chu	R	78
31	Kangtangshri	Siyom	R(P)	68
32	Lower Yamne-I (Jaru)	Yamne	R	66
33	Rapum	Siyom	R	60
34	Rego	Siyom	R	63
35	Lower Yamne St-II (Yapin)	Yamne	R	74
36	Sippi	Ringong	R	75
37	Simang I	Simang	R	32
38	Simang- II	Simang	R	32
39	Siang Upper Stage-II (Passighat)	Siang	S	3750
40	Saing Upper Stage-I (Passighat)	Siang	S	6834
41	Kalai-I (Kalai)	Lohit	S	1140
42	Hutong -II (Hutong)	Lohit	R	900
43	Demwe Lower (Demwe)	Lohit	R(P)	1750
44	Demwe Upper St-I (Demwe)	Lohit	R	210

45	Demwe Upper St-II (Demwe)	Lohit	R	210
46	Demwe Upper St-III (Demwe)	Lohit	R	150
47	Gimliang	Dau	R	82
48	Raigam	Delai	R	180
49	Tidding -I	Tidding	R	82
50	Tidding -II	Tidding	R	70
51	Kalai II (Kalai)	Lohit	R(P)	1200
52	Anjaw	Lohit	R	230
53	Oju (Oju-I + Oju-II)	Subansiri	R	2060
54	Niare	Subansiri	R	860
55	Naba	Subansiri	R	905
56	Milli	kurung	R	138
57	Sape	kurung	R	65
58	Chomi	Kurung	R	165
59	Chela	Kurung	R	180
60	Nyepin	Payam	R	48
61	Hiya	Payam	R	65
62	Kurung (Kurung Dam I + Kurung Dam II)	Kurung	S	300
63	Hegio	Kurung	R	320
64	Subansiri Lower (Subansiri Dam)	Subansiri	R(P)	2000
65	Tago I	Kale	R	48
66	Ranganadi St II (Yazali Storage)	Ranganadi	S	100
67	Nalo	Subansiri	S	372
68	Dengser	Subansiri	R	545

69	Subansiri Upper	Subansiri	S	1320
70	Subansiri Middle (kamla) (Tamen)	Kamala	S	1500
71	Panyor	Panyor	R	130
72	Ranganadi St-I (Yazali Div. -II)	Ranganadi	R(P)	405
73	Turu	Dikrong	R	100
74	Par	Dikrong	R	85
75	Dardu	Dikrong	R	85
76	Doimukh [Dudmukh Storage]	Dikrong	R	34
77	Pare	Dikrong	R(P)	110
78	Tipang	Tirap	S	26
79	Chanda	Kameng	R	115
80	Badao	Kameng	R	94
81	Para	Para	R	144
82	Talong Londa (Talong)	Kameng	R(P)	225
83	Pachuk II (Satuk)	Pachuk	R	54
84	Pachuk II Lower (Kapak Leyak)	Pachuk	R	62
85	Phanchung	Pachi	R	36
86	Utung	Bichom	R	76
87	Dibbin	Bichom	R	120
88	Khuitam	Digen	R	62
89	Dinhang (But +Maithing)	Digo	R	295
90	Kameng HEP (Bichom storage-I + Bichom-II)	Bichom/ Tenga	R(P)	600
91	Papu	Papu	R	100

92	Jameri (Tenga)	Tenga	R	172
93	Kimi	Bichom	R	535
94	Gongri	Gongri	R	144
95	Nafra	Bichom	R(P)	120
96	Meyong	Tim Kong Rong	R	32
97	Marjingla	Kameng	R	38
98	Marijingla Lower	Kameng	R	44
99	Pachuk I	Pachuk	R	95
100	Pakke Bung I	Pakke Bung	R	48
101	Papu Valley	Papu	R	45
102	Tawang St-I	Tawang Chu	R	600
103	Tawang St-II	Tawang Chu	R	800
104	Magochu	Mago Chu	R	48
105	Nyukcharong Chu	Nyukcharong Chu	R	160
106	Rho	Tawang Chu	R	145
107	Tsa Chu - I Lower	Nykrong Chu	R	145
108	Tsa Chu - II	Nykrong Chu	R	148
109	New Melling	Mago Chu	R	48
109	Total			50394

A. H.E. Projects in Operation:

S. No.	Name of Project	Agency	District	I.C. (MW)	River	Type (R/S/R(P))	Sector	Year of commissioning
1	RANGANADI	NEEPCO	Lower Subansiri	405	RANGANADI	R(P)	Central	2002
2	PARE	NEEPCO	Papum Pare	110	Dikrong	R (P)	Central	2018
3	Kameng	NEEPCO	West Kameng	600	Bichom & Tenga / Kameng	R (P)	Central	2020-21
3	Total			1115				

Note: All projects are in Brahmaputra Basin

B. H.E. Projects Under Construction:

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River	Type (R/S/R(P))	Sector	Likely Commissioning
1	Subansiri Lower	NHPC	L.Subansiri/ Dhemaji	2000	Subansiri	R(P)	Central	2026-27 (May'26)#
2	Dibang Multipurpose Project	NHPC	Lower Dibang valley	2880	Dibang/Brahmaputra	S	Central	2031-32 (feb'32)
2	Total			4880				

Note: All projects are in Brahmaputra Basin

3 units (750 MW) likely during 2024-25, 2 units (500 MW) during 2025-26 and 3 units (750 MW) during 2026-27.

Note :R= Run of River, S=Storage & R(P)= Run of River with Pondage

C. H.E. Projects concurred by CEA and yet to be taken up for construction:

Sl No.	Name of Project	Agency	Sector	District	River	I.C. (MW)	Date of CEA Concurrence	Type (R/S/R(P))	Status
1	Lower Siang	JAVL	Private	East Siang	Siang	2700	16.02.10	R(P)	EC & FC yet to be obtained by developer. MoEF&CC in Jan'2016 closed the proposal due to non-response of developer. Developer is required to carry out fresh EIA/EMP studies. #
2	Tawang St-I	NHPC	Central	Tawang	Tawang Chu	600	10.10.11	R	EC accorded on 10.06.2011 (valid till June 2021). EAC in its 13th meeting held on 16.06.2021 has recommended an extension of validity of EC for 3 years. FC-I & FC-II are pending. ##
3	Tawang St-II	NHPC	Central	Tawang	Tawang Chu	800	22.09.11	R	EC accorded on 10.06.2011 (valid till June 2021). MoEF&CC vide letter dated 18.10.2021 accorded extension of validity of EC for 3 years till 09.06.2024. FC-I accorded on 08.01.2014. FC-II yet to be obtained.. ###
4	Demwe Lower	ADPL	Private	Lohit	Lohit	1750	20.11.09	R(P)	<u>EC accorded on 12.02.2010. EC extended till 11.02.2023. FC-I accorded on 01.03.2012. FC-II accorded on 03.05.2013. However, an appeal was filed against grant of FC before the NGT on 03.05.2014.. ####</u>
5	Hirong	NEEPCO	Central	West Siang	Siyom	500	10.04.2013	R	EC & FC yet to be obtained by developer. Government of Arunachal Pradesh vide letter dated 09.07.201 informed CEA that allotment of Hirong HEP to M/s. JAPL was withdrawn/ cancelled vide GoAP letter dated 21.04.2021. MOP vide letter dated 22.12.2021 indicated that Hirong HEP to be pursued by NEEPCO. Govt. of Arunachal Pradesh has approved the allotment of Hirong HEP to NEEPCO Ltd. on 13.01.2023. MoA signed on 12.08.2023.
6	Talonga Londa	GMR	Private	East Kameng	Kameng	225	16.08.2013	R(P)	EC accorded on 07.08.2015. FC-I & FC-II yet to be obtained. #####
7	Etalín	SJVNL	Central	Dibang Valley	Dri & Tangon	3097	12.07.2013	R	EC recommended by EAC on 31.01.2017. Letter will be issued after FC-I. FC-I & FC-II yet to be obtained. #####
8	Naying HEP	NEEPCO	Central	West Siang	Siyom	1000	11.09.2013	R	EC & FC yet to be obtained by developer. \$
9	Kalai –II	THDCIL	Central	Anjaw	Lohit	1200	27.3.2015	R(P)	EC & FC yet to be obtained. MOP vide letter dated 22.12.2021 indicated Kalai-II HEP to be pursued by THDC. The Government of Arunachal Pradesh has entered into a Memorandum of Agreement (MoA) on 30th Dec'2023 with THDC INDIA Limited, to jointly undertake the development of the 1200 MW Kalai-II hydroelectric project. CEA vide letter dated 23.02.2024 accorded for transfer and revalidation of concurrence. Application for ToR for fresh EC was submitted on parivesh portal on 23.03.2024. Proposal was discussed by EAC in its meeting held on 29.04.2024, wherein some observations were raised. The reply to same was submitted by THDCIL on 25.05.2024. EAC Meeting held on 27.06.2024 and recommended for ToR. Fresh forest proposal submitted in Parivesh portal on 23.01.2024. It is yet to be accepted by PSC-I.
10	Heo	NEEPCO	Central	West Siang	Yarjep	240	28.07.2015	R	EC accorded on 10.11.2015. FC-I accorded on 27.10.2015. FC-II yet to be obtained. The issue of shifting of quarry is pending with FAC which is linked with Pauk, Heo and Tato-I and needs to be resolved for accord of FC-II. Observations of Regional Office awaited. Land acquisition is in progress. MOP vide letter dated 22.12.2021 indicated that Heo HEP to be pursued by NEEPCO. MoA signed on 12.08.2023 EC transferred in favour of NEEPCO on 01.01.2024. FC-I transferred in favour of NEEPCO on 31.01.2024. Payment for Compensatory levies deposited in CAMPA on 09.04.2024 and Compliance report on conditions of FC-I letter to State Forest Division for issuance of FC-II on 01.05.2024.
11	Tato-I	NEEPCO	Central	West Siang	Yarjep	186	28.10.2015	R	EC accorded on 10.11.2015. FC-I accorded on 27.10.2015. FC-II yet to be obtained. MoEF&CC stated that the matter of shifting of quarry area was considered by FAC and observations of Regional office are being sought & thereafter it will be again considered by FAC. Land acquisition is in progress. MOP vide letter dated 22.12.2021 indicated that Tato-I HEP to be pursued by NEEPCO. MoA signed on 12.08.2023 EC transferred in favour of NEEPCO on 01.01.2024. FC-I transferred in favour of NEEPCO on 31.01.2024. Payment for Compensatory levies deposited in CAMPA on 09.04.2024 and Compliance report on conditions of FC-I letter to State Forest Division for issuance of FC-II on 30.04.2024.
12	Attunli	SJVN	Central	Dibang Valley	Tangon	680	02.07.18	R(P)	Both EC and FC are yet to be obtained. MoEF&CC stated that fresh ToR was issued in May'2019. However, the same has been expired. Application for TOR submitted by developer online on 16.12.2023. Forest survey under progress. DISCOMS are reluctant to sign long term PPA's for the Hydro Projects. Land Acquisition under process. MOP vide letter dated 22.12.2021 indicated that Attunli HEP to be pursued by SJVNL. MoA signed on 12.08.2023. CEA vide letter dated 09.11.2023 accorded for transfer and revalidation of concurrence. Application for ToR submitted on 16.12.2023 and agreed by EAC on 09.02.2024. ToR issued on 05.03.2024. EIA/ EMP studies is in progress. Application uploaded on 15.02.2024. Project Screening Committee (PSC) recommended the proposal on 11.03.2024. Proposal forwarded to DFO on 14.03.2024. Tree enumeration completed on 25.03.2024. FC is in process.
13	Nafra	NEEPCO	Central	West kameng	Bichom	120	11.02.11	R(P)	EC accorded on 19.08.2013. FC-I accorded on 12.07.2011 & FC-II accorded on 26.06.2012. \$\$

14	Tato-II	NEEPCO	Central	West Siang	Siyom	700	22.05.12	R(P)	EC accorded on 27.6.2011. FC is linked to Cumulative Impact Assessment Study of Siang Basin which has been carried out and accepted by MoEF&CC. There is no need to change in IC but as per recommendations in BSR, FRL needs to be reduced for free flow stretch and hence there may be change in other parameters including shift in location of Dam/ Barrage etc. MOP vide letter dated 22.12.2021 indicated that Tato-II HEP will be pursued by NEEPCO. MoA signed on 12.08.2023 EC transferred in favour of NEEPCO on 01.01.2024. MoEF&CC requested for fresh submission of the Forest Clearance proposal through Parivesh portal vide letter dated 08.11.2023. Application for grant of FC-I submitted through PARIVESH portal on 13.01.2024. Joint Survey of Forest Land with the DFO held on 29.01.2024. PSC (project screening committee)-I cleared the proposal on 27.03.2024. Pending at DFO/CF/Nodal Officer after acceptance in PSC-I.
14	Total					13798			

Note: All projects are in Brahmaputra Basin

As per Cumulative Impact Assessment recommendations for Siang basin, parameter of Lower Siang HEP has been suggested to be altered and enhance the e-flows which has great impact on design and installation capacity of this project. The final decision on the parameters of the project and norms for e-flows needs to be taken by State Government and Government of India. Validity of Concurrence to the project expired on 16.02.2019.
MoP vide letter dated 22.12.2021 indicated that Lower Siang HEP to be pursued by NHPC.

##FRA is under process. In the review meeting held on 29.05.2019 in CEA, Developer stated that FC-II of Tawang-I will be taken up after obtaining FC-II of Tawang-II. There is issue of habitation of Black Necked Crane in the project area.
MoEF&CC informed that the report of WII on Black Necked Crane for the project is submitted to MoEF&CC and is under review.MOP vide letter dated 22.12.2021 indicated that Tawang-I HEP to be pursued by NEEPCO. Validity of Concurrence to the project expired on 11.10.2021.

###For FC-II, additional information sought by MoEF&CC vide letter 23.02.2017. NHPC informed that local resident are not cooperating. Minister of State (I/C), MOP through DO letter dated 02.02.2018 requested Hon'ble CM, Ar. Pr. to intervene in the matter for submitting compliance report under FRA 2006 by State Govt. to MoEF for accord of FC-II. CMD NHPC vide DO letter dated 28.10.19 and 2.12.2020 had again requested Chief Secretary, Govt. of Arunachal Pradesh to intervene in the matter. Matter is being pursued with District Administration. NHPC vide letter dated 11.12.2020 has again requested IG (FC), MoEF&CC to extend the validity of FC-I clearance of the project by another 5 years. MOP vide letter dated 22.12.2021 indicated that Tawang-II HEP to be pursued by NEEPCO. Proposal for Revalidation of Concurrence submitted By M/s NHPC Ltd vide their Letter dated 15.06.2021 for another two years i.e. up to 22.09.2023 has been return on 28.04.2022 due to non-submission of desired information sought vide this office letter dated.07.09.2021. Validity of Concurrence to the project expired on 23.09.2021.

Hon'ble NGT vide its Order dated 24th October, 2017 dismissed the Forest Clearance appeal of the project and directed the Standing Committee of NBWL to reconsider the issue relating to Demwe Lower HEP and pass appropriate orders. Till such orders are passed, the forest clearance of the project stands suspended.
Developer informed that the project is under NCLT since 2017 and fate of project will be decided after NCLT proceedings are over. Validity of Concurrence to the project expired on 19.05.2017. MOP vide letter dated 22.12.2021 indicated that Demwe lower HEP to be pursued by THDC.

The Environmental Clearance (EC) is approved in-principle by MoEF&CC, but its formal issuance is pending for want of Stage-1 Forest Clearance, which is under process. (GOAP has been requested for necessary recommendation to MOEF&CC to grant the Forest clearance vide developer's submission dated 29.6.2020.) Subsequently, request for grant of FC- stage- 1 was made to MOEF&CC, Arunachal Pradesh by developer vide its letter dated 08th Dec'20. MOP vide letter dated 22.12.2021 indicated that Talong Londa HEP to be pursued by NEEPCO. Validity of Concurrence to the project expired on 15.08.2016.

The Biodiversity studies have been completed by Wild Life Institute of India (WII) in July 2019 after which FAC considered it in October 2019 wherein it recommended that a Sub-Committee shall be formed who shall visit the project site and submit its report on grant of forest Clearance for the project considering various aspects. Sub-Committee submitted its report to MOEF&CC and is available in their website. Sub-Committee recommended for the forest clearance of the project.FAC in its meeting held on 11.05.2022 has recommended to constitute two committees and will submit their reports within three weeks from their constitution. MoEF&CC vide letter dated 02.02.2023 conveyed that "FAC in its meeting held on 27.12.2022 opined that the instant proposal cannot be considered in the present form and the revised proposal may be submitted for further consideration by the State Government".

MOP vide letter dated 22.12.2021 indicated that Etalin HEP to be pursued by SJVNL. MoA signed on 12.08.2023. CEA vide letter dated 09.11.2023 accorded for transfer and revalidation of concurrence.
Application for transfer of Project Proponent in EC submitted to MoEF&CC on 23.08.2023 and 29.09.2023.

Application for transfer of Project Proponent in FC proposal was submitted to MoEF&CC on 07.12.2023. MoEF&CC requested for fresh submission of the proposal through Parivesh portal vide letter dated 22.12.2023. SJVN Limited submitted fresh proposal for FC on 15.02.2024. Proposal recommended and the case forwarded to DFO on 14.03.2024.

\$- EAC Meeting held on 27.06.2024 and recommended for ToR.

Government of Arunachal Pradesh vide letter dated 09.07.201 informed CEA that allotment of Naying HEP to M/s. NDSCPL has been withdrawn/ cancelled vide GoAP letter dated 27.04.2021. MOP vide letter dated 22.12.2021 indicated that Naying HEP to be pursued by NEEPCO.Govt. of Arunachal Pradesh has approved the allotment of Naying HEP to NEEPCO Ltd. on 13.01.2023. MoA signed on 12.08.2023.

\$\$Application for transfer of EC is under process.

Application for transfer of FC of the project was submitted to the Department of Environment and Forest, Govt. of Arunachal Pradesh on 05.06.2023.

CEA vide letter dated 12.06.2023 transferred the Concurrence of the project to NEEPCO along with revalidation of the Concurrence upto 31.05.2024.

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

D. H.E. Projects Returned to Project Authorities for re-submission after compliance of observations:

Sl. No.	Name of Project	Agency	I.C. (MW)	Sector	Type (R/S/R(P))	Month of Return/Reason of Return
1	Ranganadi St-II	NEEPCO	130	Central	S	Returned on 04/06 and NEEPCO has been asked to review the Project and resubmit DPR after cost and tariff are brought down. MOU with State Govt. yet to be signed.
2	Yamne St-II	SSYEVPL	84	Private	R	DPR returned on 05/11 due to inadequate geological investigations at dam site, diversion tunnel, surge shaft & power house etc.
3	Hutong –II	MFIPL	1200	Private	R	The DPR was returned on 5.12 as the Project is now to be developed as storage Project. Hydrology & PPS cleared on 9.5.2011 & 27.3.2012.
4	Kalai-I	MFIPL	1352	Private	S	Returned on 05/12 and STC decided that M/S MFIPL should carry out the detailed investigation for the revised DPR as per CEA's letter dt 24.5.2012.
5	Pemashelphu HEP	MHPL	90	Private	R	Returned on 02/13 due to non-replying of the comments and likely change in location of Dams benefits from the project, DPR of project has been returned.
6	Sissiri HEP	SSHPL	100	Private	S	Returned on 02/13 reason being DPR could not be accepted to detailed examination as representation of State Govt. pointed out that irrigation and drinking water component should be internal part of two project and cost of same should be included in cost of project. DPR returned to developer for sort out the issue with State Govt.
7	Gimiliang	SKI Pvt. Ltd.	80	Private	R	DPR returned on 06/13 during presentation meeting held on 03.5.2013 due to inadequate geological investigation. Developer was told to submit revised DPR after carrying out necessary investigation and IC got fixed by CEA.
8	Raigam	SKI Pvt. Ltd.	141	Private	R	DPR returned on 06/13 during presentation meeting held on 03.5.2013 due to inadequate geological investigation. Developer was told to submit revised DPR after carrying out necessary investigation and IC got fixed by CEA.
9	Kangtangshiri	KHPPL	80	Private	R(P)	Returned on 29.07.2013 due to inadequate investigation and in proper layout etc.
10	Nyukcharong Chu	SNCPCCL	96	Private	R	Returned on 04/15 due to non-submission of investigation suggested by GSI.
11	Magochu	MCPCCL	96	Private	R	Returned on Jan-18
12	Tagurshit	L&T Power Development Ltd	74	Private	R	Returned in 06/19.
12	Total		3523			

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

E. H.E. Projects Under Survey & Investigation:

Sl. No.	Name of Project	River	Agency for DPR	I.C. (MW)	District	Type (R/S/R(P))	Sector	Date of MOA	Target date of Preparation of DPR
1	Demwe UpperSt-I	Lohit	Lohit Urja Pvt Ltd	270	Anjaw	R	Private	09.07.2007	12/24
2	Niare	Subansiri	Andra Power Private Limited	909	Upper Subansiri	R	Private	02.05.2011	12/24
3	Upper Siang Project	Siang	NHPC	11200	Upper siang	S	Central		
4	Anjaw	Lohit	Lohit Urja Pvt. Ltd.	270	Anjaw	R	Private	09.07.2007	12/24
5	Naba	Subansiri	Naba Power Private Ltd.	1082	Upper Subansiri	R	Private	21.06.2010	04/25
6	Kamala	Kamla tributary of Subansiri	NHPC	1720	Kamle	S	Central	12.08.2023	04/25
7	Oju Hydro-Electric Project	Subansiri	Oju Subansiri Hydro Power Corporation Pvt. Ltd.	2220	Upper Subansiri	R	Private		09/24
8	Subansiri Upper	Subansiri	NHPC	2000	Upper Subansiri	R	Central	12.08.2023	06/25
9	Kurung	Kurung	NEEPCO	320	Kra Daadi	R	Central	27.01.2015	06/25
9	Total			19991					

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

F. Balance Capacity

Sl.No.	Name of Project	River	Type	I.C. (MW)	District	Remarks
1	Agoline	Dri	R	220	Dibang valley	
2	Elango	Ahi	R	128	Dibang valley	
3	Rigong	Rigong	R	85	Upper Siang	
4	Mirak	Sigong	R	78	Upper Siang	
5	Hegio	Kurung	R	320	Kra Daadi	
6	Doimukh [Dudmukh Storage]	Dikrong	R	34	Papum pare	
7	Kimi	Bichom	R	535	West Kameng	
8	Chanda	Kameng	R	115	East Kameng	
9	Milli	Kurung	R	138	Kurung Kumey	
10	Sape	Kurung	R	65	Kurung Kumey	
11	Nyepin	Payam	R	48	Kurung Kumey	
12	Hiya	Payam	R	65	Kurung Kumey	
13	Par	Dikrong	R	85	Papum Pare	
14	Tago-I	Kale	R	48	Lower Subansiri	
15	Utung	Bichom	R	76	West Kameng	
16	Tipang	Tirap	S	26	Changlang	
17	Jameri (tenga)	Tenga	R	172	West Kameng	
18	Meyong	Timkong Rong	R	32	West Kameng	
19	Gongri	Gongri	R	144	West Kameng	
20	Badao	Kameng	R	94	East Kameng	
21	Amulin	Mathun	R	212	Dibang valley	
22	Emini	Mathun	R	326	Dibang valley	

23	Mihumdon	Dri	R	226	Dibang valley	
24	Lower Yamne St-II (Yapin)	Yamne	R	74	Upper Siang	
25	Nalo	Subansiri	R	372	Upper Subansiri	
26	New Melling	Magochu	R	48	Tawang	
27	Tsa Chu-I Lower	Nykrongchu	R	145	Tawang	
28	Demwe Upper St-II	Lohit	R	210	Anjaw	
29	Demwe Upper St-III	Lohit	R	150	Anjaw	
30	Etabue	Ange Pani	R	122	Dibang Valley	•Indicated to SJVN
31	Simang I	Simang	R	32	East Siang	
32	Ithun II	Ithun	R	48	Ithun	
33	Simang- II	Simang	R	32	Simang	
34	Turu	Dikrong	R	100	Dikrong	
35	Phanchung	Pachi	R	36	Pachi	
36	Khuitam	Digen	R	62	Digen	
37	Pachuk I	Pachuk	R	95	Pachuk	
38	Pakke Bung I	Pakke bung	R	48	Pakke bung	
39	Papu Valley	Pappu	R	45	Pappu	
40	Dibbin	Bichom	R	120	Bichom	
41	Siyom (Passighat)	Siyom	R	1000	West Siang	
42	Papu	Papu	R	100	East Kameng	•initially allotted to CESC Ltd. •issue of interference of levels with the upstream project of M/s Vensar Energy Ltd i.e papu valley HEP requires to be resolved.

43	Emra-I	Emra	R	450	Dibang Valley	•Indicated to SJVN and earlier allotted to Athen Energy Ventures Pvt. Ltd . •No approach road the project site and intent to terminate by GoAP under since 25/07/2018
44	Rho	Tawang Chu	R	145	Tawang	•Initially allotted to SEW energy. •No visible progress since 2015 . Drift work pending. •letter issued to the developer to resolve issue with CEA/CWC/GSI on 17/9/19
45	Dardu	Dikrong	R	85	Papum pare	•Initially allotted to KVk energy & infrastructure Ltd. •No activity/progress in project. Local public demanding to hand over the project to CPSU. Dikrong study not yet finalised . Interntion to trminated by GOAP is under process since10/04/18.
46	Dengser	Subansiri	R	545	Upper Subansiri	•Indicated to NHPC and earlier alloted to Coastal Infrastructure Pvt. Ltd. •Unapproachable area/ difficult & inhospitable terrain and local law & order problem
47	Yamne-I	Yamne	R	106	Upper Siang	• Indicated to NEEPCO and earlier allotted to S. S. yamne Power Pvt. Ltd. •Local law and order problem. Under process for termination since 18/05/18
48	Dinchang	Digo	R	295	West Kameng	• Indicated to NEEPCO and earlier allotted to KSK Energy Ventures Ltd.. •Project under process for termination by GOAP since 13.03.2018

49	Ithun-I	Ithun	R	76	Lower Dibang Valley	- Initially allotted to JVKIL consortium. - Non-operationalization of Hunli-Desali road. Very slow progress, hence under process for Intent to Terminate by GoAP since 19/07/2018
50	Chomi	Kurung	R	165	Kurung Kumey	- initially allotted to Adveta Power. - MoA to be renewed
51	Chela	Kurung	R	180	Kurung Kumey	- Initially allotted to Adveta Power. - MoA to be renewed
52	Para	Para	R	144	East Kameng	- Initially allotted to Coastal Projects Pvt. Ltd.. - M/s Coastal projects Ltd (Developer of Para HE Project) are in the Resolution process under NCLT. DPR would be prepared after resolution Process is completed.
53	Tidding-I	Tidding	R	82	Anjaw	- Initially allotted to Sai Krishnodaya Ind. (P) Ltd. - There is no progress in the S&I activities of project. ToR has not been obtained and there is no progress in geotechnical investigations.
54	Tidding-II	Tidding	R	70	Anjaw	- Initially allotted to Sai Krishnodaya Ind. (P) Ltd. - There is no progress in the S&I activities of project. ToR has not been obtained and there is no progress in geotechnical investigations.
55	Pango (Minnying)	Sirapatang	R	72	Upper Siang	- Initially allotted to Meenakshi Power Ltd. - Held up due to lack of infrastructure, poor communication network and remoteness of site.

56	Sippi	Ringong	R	75	Upper Siang	- Initially allotted to Meenakshi Power Ltd. - Held up due to lack of infrastructure, poor communication network and remoteness of site.
57	Jidu (Yangsang)	Yangsang	R	90	Upper Siang	- Initially allotted to Meenakshi Power Ltd. - Held up due to lack of infrastructure, poor communication network and remoteness of site.
58	Pachuk-II (Satuk)	Pachuk	R	54	Pachuk	- Initially allotted to Energy Development Co. Ltd. - No progress in the S&I activities of project reported by developer.
59	Tsa Chu -II	Nykrong Chu	R	148	Nykcharong chu	- Initially allotted to Energy Development Co. Ltd. - No progress in the S&I activities of project reported by developer.
60	Pachuk II Lower (kapak Leyak)	Pachuk	R	62	Pakke Bung	- Initially allotted to Energy Development Co. Ltd. - No progress in the S&I activities of project reported by developer.
61	Marijingla	Kameng	R	38	Kameng	- Initially allotted to Energy Development Co. Ltd. - No progress in the S&I activities of project reported by developer.
62	Marijingla Lower	Kameng	R	44	Kameng	- Initially allotted to Energy Development Co. Ltd. - No progress in the S&I activities of project reported by developer.

63	Rego	Siyom	R	63	West Siang	- Initially allotted to Greenko Energies Ltd. - No progress in the S&I activities of project reported by developer.
64	Rapum	Siyom	R	60	West Siang	- Initially allotted to Greenko Energies Ltd. - No progress in the S&I activities of project reported by developer.
65	Panyor	Panyor	R	130	Lower Subansiri	- Initially allotted to Rajratan Energy Holding Pvt . Ltd. - No progress in the S&I activities of project reported by developer.
66	Lower Yamne St-I (Jarum)	Yamne	R	66	Upper Siang	- Initially allotted to Yamne Power Pvt. Ltd. - No progress in the S&I activities of project reported by developer.
67	Emra-II	Emra	R	210	Dibang valley	- Initially allotted to Athena Emra power pvt ltd - No road connectivity to project site.local issue , communication problem.Intent to terminate under process since 5/07/2018
68	Pauk	Yarjep	R	128	West Siang	- Initially allotted to Valcan energy Pvt ltd - Project held up due to land disputes between clans and law & order problem.
68	Total			9694		

II. Pumped Storage

Exploitable Hydro Power Potential from Pumped Storage Projets

Sl. No.	Name of project	I.C. (MW)	District
1	Panyor	660	Lower Subansiri
1	TOTAL	660	

a. Balance Capacity

Sl. No	Name of Project	River		I.C. (MW)	Agency	District	Remarks
		Upper Reservoir	Lower Reservoir				
1	Panyor	Pit Nalah	Panyor / Ranganadi	660	Indicated by MoP to NEEPCO	Lower Subansiri	Yet to be allotted by the State for development
1	TOTAL			660			

Summary of Hydro Power Development in Mizoram

I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		11	1926.7
Breakup of Hydro Power Potential (2017-23 study)			
A	Projects in operation	1	60
B	Balance Capacity	10	1866.7

II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Hydro Power Potential from Pumped Storage Projects		4	5550
Breakup of Hydro Power Potential from Pumped Storage Projects			
a	Balance Capacity	4	5550

I. Conventional Projects**Details of Exploitable Hydro Power Projects**

S.no	Name	River	Type	Installed Capacity
1	Tuivai (Bungpuilong)	Tuival	R	140
2	Tuirial (Sonai)	Tuirial	S	60
3	Lunglang	Tyao	S	474
4	Mat	Mat	S	41.7
5	Boinu	Boinu	S	498
6	Kaldan	kaldan	S	159
7	Bhairabi	Dhaleshwari	S	50
8	Tlawng	Tlawng	S	37
9	Tuivawl	Tuivawl	R	50
10	Tuichang	Tuichang	S	57
11	Kolodyne Stage - II	Kaldan	S	360
11	TOTAL			1926.7

A. H.E. Projects in Operation:

S. No.	Utility/Stations	River	Type (R/S/R(P))	District	No. of units x Capacity (MW)	I.C. (MW)	Year of commissionin g	Sector
	NEEPCO							
1	TUIRIAL	TUIRIAL	S	KOLASIB	(2X30)	60	2017	Center
1	TOTAL MIZORAM					60		

B. Balance Capacity

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Lunglang	Tyao	S	474
2	Boinu	Boinu	S	498
3	Kaldan	Kaldan	S	159
4	Bhairabi	Dhaleshwari	S	50
5	Mat	Mat	S	41.7
6	Tlawng	Tlawng	S	37
7	Tuivawl	Tuivawl	R	50
8	Tuichang	Tuichang	S	57
9	Tuivai	Tuival	R	140
10	Kolodyne St-II	Kaldan	S	360
10	Total			1866.7

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

II. Pumped Storage

Exploitable Hydro Power Potential from Pumped Storage Projets

Sl. No.	Name of project	I.C. (MW)	District
1	Leiva Lui	1500	Aizawl
2	Tuiphai Lui	1650	Aizawl
3	Nghasih	400	Lunglei
4	Daizo Lui	2000	Lunglei
4	TOTAL	5550	

a. Balance Capacity

Sl. No	Name of Project	River		I.C. (MW)	Agency	District	Remarks
		Upper Reservoir	Lower Reservoir				
1	Leiva Lui	Pharsih river	Leiva Lui river	1500	Indicated by MoP to NEEPCO	Aizawl	Yet to be allotted by the State for development
2	Tuiphai Lui	Tuiphai Lui river	Tuikual Lui river	1650	Indicated by MoP to NEEPCO	Aizawl	Yet to be allotted by the State for development
3	Nghasih	Khawiva Lui river	Nghasih Lui river	400	Indicated by MoP to NEEPCO	Lunglei	Yet to be allotted by the State for development
4	Daizo Lui	Koladyne river	Daizolui river	2000	Indicated by MoP to SJVNL	Lunglei	Yet to be allotted by the State for development
4	TOTAL			5550			