

Status of Large Hydro Power Development in Haryana

	Nos.	Capacity (MW)	Percentage (%)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)#	1	64	100

#Western Yamuna Canal Project (64 MW) has been developed in 4 stages each having Installed Capacity below 25 MW.

Status of Large Hydro Power Development in Himachal Pradesh

		Nos.	Capacity (MW)	
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		67	18470	
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		18	2521	
Projects identified below 25 MW capacity in Reassessment Study and developed above 25 MW capacity		2	240	
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		2	-41	
Change in Projects due to merging of projects (identified during reassessment study in 1978-87)		-4	-1290	
Total		85	19900	
I	Projects in operation	29	10263	
II A	Projects under active construction	7	2016	
II B	Projects on which construction is held up	1	44	
III	Projects allotted by States for development			
	(i)	Projects concurred by CEA and yet to be taken up for construction	5	1319
	(ii)	Projects returned to project authorities	1	400
	(iii)	Projects under S&I	5	1135
	(iv)	Projects allotted for development on which S&I is held up/ yet to be taken up	8	2950
IV	Projects dropped due to Basin studies/ Other reasons	8	889	
V	Projects yet to be allotted by the State for development*	21	1707	

Note - One project Seawa (70 MW) was identified in HP but presently this project is in operation in J&K. In addition to above, one pumped storage project namely Renukaji (1630 MW) is under PIR prepared category and one pumped storage project namely Koldam PSP-I & II (2400 MW) is under PFR prepared category

*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.

1(A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Kyurik	Spiti	R	41
2	Thibda	Spiti	R	55
3	Khab-I	Sutlej	S	1640
4	Ropa	Ropa	S	31
5	Khab-II	Sutlej	R	425
6	Tidong-II	Tidong	R	90
7	Tidong-I	Tidong	S	90
8	Taiti-I	Taiti	S	50
9	Jangi Thopan	Sutlej	R	410
10	Thopan Powari	Sutlej	R	650
11	Baspa-I	Baspa	S	335
12	Baspa-II	Baspa	R	370
13	Shongtong Karcham	Sutlej	R	780
14	Karcham Wangtoo	Sutlej	R	935
15	Homte	Bhaba	R	60
16	Bhaba (Sanjay)	Bhaba	R	195
17	Nathpa Jhakri	Sutlej	R	1990
18	Rampur Nanjah	Sutlej	R	420
19	Luhri	Sutlej	R	425
20	Suni Chaba Dam	Sutlej	S	225
21	Kol Dam	Sutlej	S	760
22	Bhakra Nangal	Sutlej	S	1395
23	Manali	Manalsu	R	37
24	Allain Nallah	Allain	R	46
25	Duhangan	Duhangan	R	29
26	Gandharni	beas	R	49
27	Gharopa	Beas	R	85
28	Kulu	Beas	R	90
29	Malana	Malana	R	60
30	Parbati-II	Parbati	S	400
31	Sainj-I	Sainj	R	55
32	Sainj Kartah-II	Sainj	R	45
33	Nakthan (Parbati-I)	Parbati	R	420
34	Sainj-IV	Sainj	R	27
35	Tirthan-I	Tirthan	R	32
36	Tirthan-III	Tirthan	R	26
37	Sainj (Parbati-III)	Sainj	R	215
38	Larji	Beas	R	190
39	Pandoh Diversion	Beas	R	555

40	Uhl	Uhl	R	70
41	Uhl at Joginder Nagar	Uhl	R	90
42	Bassi	Rana Khad	R	75
43	Rana Khad	Rana Khad	R	29
44	Gaj	Gaj Khad	R	34
45	Pong Dam	Beas	S	390
46	Chulan	Ravi	R	55
47	Machhetri	Ravi	R	60
48	Budhil	Budhil	R	38
49	Tundah	Tundah	R	34
50	Hibra	Ravi	S	470
51	Gwar	Ravi	R	395
52	Baira Siul	Siul	R	225
53	Chamera (Sherpur)	Ravi	S	405
54	Baroti	Siul	S	40
55	Chhota Dara	Chandra	R	50
56	Chhatru	Chandra	R	140
57	Khoksar	Chandra	R	80
58	Railing	Chandra	S	155
59	Gondhala	Chandra	R	90
60	Gyspa	Bhaga	S	395
61	Jhalma	Chenab	R	275
62	Bardang	Chenab	R	145
63	Udaipur	iyar Nalla	R	36
64	Seli	Chanab	R	150
65	Raoli	Chanab	R	715
66	Sach Khas	Sarchu	R	70
67	Pangula Sanail	Pabar	R	26
67	TOTAL			18470

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Chango Yangthang	Spiti	180	Dropped
2	Chanju-I	Chanju Nallah	36	In Operation
3	Integrated Kashang	Satluj	195	In Operation
4	Malana-II	Malana	100	In Operation
5	Dugar	Chenab	500	UE
6	Chiroti Saichu	Saichu Nallah	26	Dropped
7	Saichu	Saichu Nallah	58	Dropped
8	Saichu Sach Khas	Saichu Nallah	117	Dropped
9	Tinget	Miyar	145	Dropped
10	Stingiri	Chenab	98	Dropped
11	Patam	Chenab	65	Dropped
12	Thana Plaun	Beas	191	UE
13	Sorang	Sorang/Satluj	100	In Operation
14	Tangu Romai	Pabbar/Tons/ Yamuna	44	Construction is held up
15	Uhl-III	Uhl/Beas	100	Under Active Construction
16	Purthi	Chenab	232	S&I
17	Dhauasidh	Beas	66	Under Active Construction
18	Tandi Rashil	Chenab	268	Under S&I
18	Sub Total		2521	

1 (C). Project identified below 25 MW capacity in Reassessment Study and developed above 25 MW capacity

Sl.No.	Name of Project	River	I.C. (MW)	Status	Remarks
1	Giri Bata	Giri & Jalal	60	In Operation	Giri Bata - 24MW
2	Bajoli Holi	Ravi	180	In Operation	Holi - 13 MW
2	Sub Total		240		

1 (D). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Bhakra Nangal	Sutlej	1395	Identified	1	Bhakra Left	Sutlej	612	In Operation
					2	Bhakra Right	Sutlej	785	In Operation
2	Luhri	Sutlej	425	Identified	3	Luhri St. I	Sutlej	210	Under Active Construction
					4	Luhri St. II	Sutlej	172	S&I
2	Sub Total		1820		4			1779	
	Net Change in Numbers		2	Increase					
	Net Change in Capacity		-41	Decrease					

1 (E). Change in Projects due to merging of projects (identified during reassessment study in 1978-87)

Before Merging					After Merging				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Allain Nallah	Allain	46	Identified	1	Allain Duhangan	Allain Nallah	192	In Operation
2	Duhangan	Duhangan	29	Identified					
3	Khab-I	Sutlej	1640	Identified	2	Khab	Sutlej	636	Held Up
4	Khab-II	Sutlej	425	Identified					
5	Jangi Thopan	Sutlej	410	Identified	3	Jungi Thopan Powari	Sutlej	804	S&I
6	Thopan Powari	Sutlej	650	Identified					
7	Sainj (Parbati-III)	Sainj	215	Identified	4	Parbati-III	Sainj	520	In Operation
8	Sainj-IV	Sainj	27	Identified					
8	Sub Total		3442		4	Sub Total		2152	
	Net Change in Numbers		-4	Decrease					
	Net Change in Capacity		-1290	Decrease					

2. H.E. Projects in Operation:

S. NO.	UTILITY/STATIONS	NO. OF STNS.	NO. OF UNITS	NO. OF UNITS X CAPACITY (MW)	RIVER/ BASIN*	DISTRICT	CAPACITY (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
	CENTRAL SECTOR								
	BBMB								
1	BHAKRA LEFT (BHAKRA NANGAL)	1	5	(1X108+ 4x126)	SUTLEJ	BILASPUR	612	S	1960-1961
2	BHAKRA RIGHT (BHAKRA NANGAL)	1	5	(5X157)	SUTLEJ	BILASPUR	785	S	1966-1968
3	DEHAR (PANDOH DIVERSION)	1	6	(6X165)	BEAS	MANDI	990	R(P)	1977-1983
4	PONG (PONG DAM)	1	6	(6X66)	BEAS	KANGRA	396	S	1978-1983
	SUB-TOTAL BBMB	4	22				2783		
	NHPC								
5	BAIRA SIUL	1	3	(3X60)	RAVI	CHAMBA	180	R(P)	1980-1981
6	CHAMERA- I (CHAMERA SHERPUR)	1	3	(3X180)	RAVI	DALHOUSIE	540	S	1994
7	CHAMERA- II (GWAR)	1	3	(3X100)	RAVI	CHAMBA	300	R(P)	2003-2004
8	CHAMERA- III (HIBRA)	1	3	(3X77)	RAVI	CHAMBA	231	R(P)	2012
9	PARBATI-III [SAINJ (PARBATI - III)]	1	4	(4X130)	SAINJ	KULLU	520	R(P)	2014
	SUB-TOTAL NHPC	5	16				1771		
	SJVNL								
10	NATHPA JHAKRI	1	6	(6X250)	SATLUJ	SHIMLA	1500	R(P)	2003-2004
11	RAMPUR (RAMPUR NANJAH)	1	6	(6X68.67)	SATLUJ	SHIMLA	412	R	2014-15
	SUB-TOTAL SJVNL	2	12				1912		
	NTPC LTD.								
12	KOLDAM	1	4	(4X200)	SATLUJ	BILASPUR	800	S	2015
	SUB-TOTAL NTPC LTD.	1	4				800		
	TOTAL CENTRAL SECTOR	12	54				7266		
	STATE SECTOR								
	HPSEBL								
13	BASSI	1	4	(4X16.5)	BEAS	MANDI	66	R(P)	1970-1981
14	GIRI BATA *	1	2	(2X30)	YAMUNA	SIRMAUR	60	R(P)	1978
15	LARJI	1	3	(3X42)	Beas River & its tributaries Sainj & Tirthan	KULLU	126	R(P)	2006
16	SANJAY [BHABA (SANJAY)]	1	3	(3X40)	SATLUJ	KINNAUR	120	R(P)	1989
	TOTAL HPSEBL	4	12				372		
	HPPCL								
17	INTEGRATED	1	3	(3X65)	SATLUJ	KINNAUR	195	R (P)	2016-17
18	SAINJ (SAINJ KARTAH-II)	1	2	(2X50)	SAINJ	KULLU	100	R(P)	2017
19	SWARA KUDDU (Pangula Sanail)	1	3	(3X37)	Pabbar/Tons/ Yamuna	SHIMLA	111	R	2020
	TOTAL HPPCL	3	8				406		

	PSPCL								
20	SHANAN	1	5	(1X50)+	UHL & Lamba	MANDI	110	R(P)	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)	2001
	TOTAL MPCL	1	2				86		
	GBHPPL								
22	BUDHIL	1	2	(2X35)	RAVI	CHAMBA	70	R(P)	2012
	TOTAL GBHPPL	1	2				70		
	EPPL								
23	MALANA-II	1	2	(2X50)	MALANA	KULLU	100	R(P)	2011-12
	TOTAL EPPL	1	2				100		
	IA ENERGY								
24	CHANJU-I	1	3	(3X12)	RAVI	CHAMBA	36	R(P)	2017
	TOTAL IA ENERGY	1	3				36		
25	ALLAIN DUHANGAN (ALLAIN NALLAH & DUHANGAN)	1	2	(2X96)	ALLAIN NALLAH		192	R(P)	2010-11
	TOTAL ADHPL	1	2				192		
	JSWHEL								
26	BASPA (BASPA-II)	1	3	(3X100)	BASPA	KINNAUR	300	R(P)	2003
27	KARCHAM WANGTOO	1	4	(4X261.25)	SATLAJ	KINNAUR	1045	R(P)	2011 (1000 MW)
	TOTAL JSWHEL	2	7				1345		
	HSPPL								
28	Sorang	1	2	2x50	Sorang	Kinnaur	100	R	2021 (100 MW)
	GMR BAJOLI HOLI HYDRO POWER PVT. LTD.								
29	Bajoli Holi	1	3	3x60	Ravi	CHAMBA	180	R	2022
	TOTAL PVT	9	23				2109		
29	TOTAL HP	29	102				10263		

* 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

3A. H.E. Projects Under Active Construction:

Sl. No.	Name of Project	Agency	District	River	Basin	I.C. (MW)	Type (R/S/R(P))	Likely Commissioning
1	Parbati St--II (Parbati -II)	NHPC	Kullu	Parbati/Beas	Indus	800	R	2023-24 (Mar'24)
2	Uhl- III	Beas Valley Power Corp. Ltd. (BVPC)	Mandi	Uhl/Beas	Indus	100	R	2024-25 (Dec'24)
3	Tidong-I	M/s NSL Tidong	Kinnaur	Tidong/Satluj	Indus	150	R	2023-24 (Dec'23)
4	Shontong Karcham	HPPCL	Kinnaur	Satluj	Indus	450	R	2026-27 (Nov'26)
5	Kutehr	JSW Energy (Kutehr) Power Ltd. (JSWEPL)	Chamba	Ravi	Indus	240	R	2025-26 (Nov'25)
6	Luhri St.I	SJVNL	Shimla/Kullu	Satluj	Indus	210	R	2025-26 (Jan'26)
7	Dhaultasidh	SJVNL	Hamirpur/Kangra	Beas	Indus	66	R	2025-26 (Nov'25)
7	Total					2016		

3B. H.E. Projects on which Construction is held up:

Sl. No.	Name of Project	Agency	District	River	Basin	I.C. (MW)	Type (R/S/R(P))	Status & Likely Commissioning
1	Tangu Romai	Tangu Romai Power Generation	Shimla	Pabbar/Tons/Yamuna	Ganga	44	R	Works are on hold since Aug 2016 due to fund constraints with developer. Date of Commissioning 2027-28*
1	Total					44		

* Subject to re-start of work in immediate future

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

4. 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))	Status
1	Miyar (Udaipur)	NTPC	Chenab /Miyar Nallah	Lahul & Spiti	120	07.02.2013	R(P)	EC accorded on 30.07.12. FC-I accorded on 27.07.12. FC-II yet to be obtained. #
2	Sunni Dam	SJVNL		Shimla & mandi	382	11.02.2021	R(P)	EC accorded by MoEF7CC on 04.02.2022. FC-I accorded by MoEF&CC on 22.12.2021. FC-II accorded by MoEF&CC on 23.08.2022. Investment approval under progress.
3	Chhatru	DSIL			126	15.01.15	R(P)	EC recommended by EAC on 24.02.15, Letter will be issued after FC-I. FC-I & FC-II yet to be obtained. ###
4	Thana Plaun	HPPCL			191	07.09.2021	R cum S	EC Cleared. FC yet to be obtained ####
5	Dugar	NHPC			500	26.04.22	R(P)	EC recommended by EAC on 06.09.2022. FC yet to be obtained
5	Total				1319			

Note: All projects are in Indus basin

FRA compliance under process.

MoU was signed between Government of Himachal Pradesh and NTPC Ltd. on 25.10.2019 to set-up the hydro project. All clearances and concurrence are yet to be transferred in favour of NTPC Ltd. NTPC exploring for execution by either NEEPCO or THDCIL. NEEPCO has denied due to high tariff. THDC is examining the project. Validity of Concurrence to the project expired on 07.02.2016.

###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.

###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 yet to be obtained. CAT Plan has been approved by Government of Himachal Pradesh on 03.01.2019. Forest Case has been recommended by State Govt. for further submission to MoEF&CC, New Delhi.

Social Impact Assessment (SIA) study for acquisition of Private land has been completed and approved from GoHP vide notification dated 16.12.2020.

Financial tie-up under process. Land Aquisition shall be processed after achieving financial closure. HPPCL exploring possibility of funding from ADB, PFC and other commercial banks.

5. 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))	Reason of Return
	Ravi Basin				
1	Seli	SHPCL	400	R(P)	
1	Total		400		

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

6. 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))	Date of MoA	Target date of Preparation of DPR
1	Luhri St.-II (Luhri)	Satluj	SJVNL	172	Mandi & Kullu	R	25.09.2019	Sept'24
2	Purthi	Chenab	SJVNL	232	Lahaul & Spiti	R	25.09.2019	Nov-23
3	Bardang	Chenab	SJVNL	175	Lahaul & Spiti	R	25.09.2019	Jun-23
4	Sach khas	Chenab	SJVNL	288	Chamba	R	05.01.21	Dec-23
5	Tandi Rashil HEP	Chenab	SJVN Ltd.	268	Lahaul & Spiti	R	30.09.2022	01/24
5	Total			1135				

* All projects are in Indus Basin

7. H.E. Projects allotted for development on which Survey & Investigation is held up/ yet to be taken up:

Sl. No.	Project	I.C. (MW)	Agency	Date of Allotment/ MoA	District	Status
Satluj Basin						
1	Khab (Khab-I & Khab-II)	636	HPPCL	22.09.2009	Kinnaur	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.
2	Sumte Kothang (Thibda)	130	Reliance Power Ltd.	31.12.2012	Lahaul & Spiti	S&I held up due to opposition from locals and NGOs. Project stands terminated on 28.07.2017.
3	Lara Sumta	104	Reliance Power Ltd.	31.12.2012	Kinnaur	S&I held up due to opposition from locals and NGOs. Project stands terminated on 28.07.2017.
4	Tidong-II	60	Tidong Hydro Power Ltd.	20.01.2012	Kinnaur	S&I is held up due to local public agitation & there is no progress in the S&I activities of the project for a long time.
5	Jangi Thopan Powari	804	SJVN Ltd.	25.09.2019	Kinnaur	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
	Sub Total	1734				
Chenab Basin						
6	Gyspa Dam (Gyspa)	300	HPPCL	22.09.2009	Lahaul & Spiti	S&I held up due to sustained opposition from local people.
7	Reoli Dugli HEP	456	SJVN Ltd.	18.03.2021	Lahaul & Spiti	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
	Sub Total	756				
Beas Basin						
8	Nakhtan (Parbati-I)	460	HPPCL	22.09.2009	Kullu	Request of HPPCL for monitoring of Nakhtan HEP to be put on hold received on 31.12.18 on account of CEIA study of Beas Basin & Hearing of court case on regular basis.
	Sub-Total	460				
8	Total	2950				

8. Projects dropped due to Basin studies/ Other reasons:

Sl. No.	Project	I.C. (MW)	River	Basin	Type (R/S/R(P))	Remarks
1	Chango Yangthang	180	Spiti	Indus	R(P)	Project has been surrendered by developer vide letter dated 11.07.2017 as the project became unviable due to increased e-flow, local protests etc.
2	Chiroti Saichu	26	Chenab	Indus		Projects dropped after final report of basin studies on cumulative impact
3	Saichu	58	Chenab	Indus		
4	Saichu Sach Khas	117	Chenab	Indus		
5	Tinget	145	Chenab	Indus		
6	Stingiri	98	Chenab	Indus		
7	Patam	65	Chenab	Indus		
8	Bara Banghal	200	Ravi	Indus	R	Developer vide letter dated 20.09.2021 intimated that the project is located in Dhauladhar Wild Life Sanctuary and hence not doable. Accordingly, developer surrendered the project to the Himachal Govt in December, 2015
8	Total	889				

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

9. H. E. Projects yet to be allotted by the State for development

Sl.No.	Name of Project	River	Type	I.C.(MW)	District
1	Ropa	Ropa	S	31	Kinnaur
2	Taiti-I	Taiti	S	50	Kinnaur
3	Homte	Bhaba	R	60	Kinnaur
4	Gandharni	Beas	R	49	kullu
5	Gharopa	Beas	R	85	kullu
6	Tirthan-I	Tirthan	R	32	kullu
7	Tirthan-III	Tirthan	R	26	kullu
8	Rana Khad	Rana Khad	R	29	Mandi
9	Tundah	Tundah	R	34	Chamba
10	Baroti	Siul	S	40	Chamba
11	Chhota Dara	Chandra	R	50	Lahaul & Spiti
12	Khoksar	Chandra	R	80	Lahaul & Spiti
13	Telling (Railing)	Chandra	S	155	Lahaul & Spiti
14	Gondhala	Chandra	R	90	Lahaul & Spiti
15	Jhalma	Chenab	R	275	Lahaul & Spiti
16	Baspa-I	Baspa	S	335	Kinnaur
17	Manali	Manalasu	R	37	Kullu
18	Kulu	Beas	R	90	Kullu
19	Uhl	Uhl	R	70	Mandi
20	Gaj	Gaj Khad	R	34	Kangra
21	Sainj-I	Sainj	R	55	Kullu
21	Total	21 Nos. of Projects		1707	

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

Status of Large Hydro Power Development in Jammu and Kashmir

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		32	11567
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		4	374.5
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		4	40
Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity#		-3	-200
Total		37	11781.5
I	Projects in operation	10	3360
II A	Projects under active construction	5	3051.5
II B	Projects on which construction is held up	1	48
III	Projects allotted by States for development		
	(i) Projects concurred by CEA and yet to be taken up for construction	3	2879
	(ii) Projects under Examination in CEA	1	240
	(iii) Multi purpose Projects approved by MoWR	1	800
	(iv) Projects returned to project authorities	1	390
	(v) Projects under S&I	2	456
	(vi) Projects allotted for development on which S&I is held up/ yet to be taken up	1	370
IV	Projects dropped as per Reconciliation Study by CEA in 2014	4	1030
V	Projects yet to be allotted by the State for development*	8	1332

*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, etc.

Dunadi (60 MW) has been developed below 25 MW as Ranjala Dunadi (15 MW) as per Reconciliation Study by CEA in 2014.

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

1(A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Shuas	Chenab	R	505
2	Barinium (Berinaum)	Chenab	R	435
3	Sho	Chenab	R	215
4	Naunut	Chenab	R	1120
5	Kiru	Chenab	R	295
6	Kwar	Chenab	R	440
7	Pakaldul	Marsudar	R	765
8	Bursar	Marsudar	S	195
9	Dulhasti	Chenab	R	1120
10	Naga	Kal Nai	R	29
11	Kiwa	Kal Nai	R	37
12	Tipri	Kal Nai	R	36
13	Dunadi	Kagune Garh	R	60
14	Ratle	Chenab	R	515
15	Shamnot	Chenab	R	200
16	Baglihar	Chenab	R	750
17	Bichlari	Bichlari	R	75
18	Sawalkot	Chenab	R	1350
19	Salal	Chenab	R	780
20	Shutkarikulan (Sonmarg)	Sind	S	155
21	Upper Sindh-I	Sind	R	65
22	Upper Sindh-II	Sind	R	140
23	Gangbal	Kankanag	S	55
24	Ganderbal	Sind	R	75
25	Karalpur	Kishan Ganga	S	280
26	Kishenganga-II (Wangam)	Bonar	R	60
27	Lower Jhelum	Jhelam	R	170
28	Uri	Jhelam	R	600
29	Chakothe	Jhelam	R	285
30	Chinari	Jhelam	R	475
31	Hatian	Jhelam	R	215
32	SEWA-II [Seawa]	Seawa	R	70
32	Total	32 Nos. of Projects		11567

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

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	New Ganderwal	Jhelum/Sindh	93	Concurred
2	Lower Kalnai	Chenab	48	Construction is held up
3	Parnai	Jhelam	37.5	Under Active Construction
4	Ujh MPP		196	Under Examination (Approved by MoWR)
4	Sub Total		374.5	

1 (C). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Baglihar	Chenab	750	Identified	1	Baglihar	Chenab	450	In Operation
					2	Baglihar II	Chenab	450	In Operation
2	Uri	Jhelum	600	Identified	3	Uri I	Jhelum	480	In Operation
					4	Uri II	Jhelum	240	In Operation
					5	Uri-I (Stage-II)	Jhelum	240	Under Examination
3	Dulhasti	Chenab	1120	Identified	6	Dulhasti	Chenab	390	In Operation
					7	Dulhasti St-II	Chenab	260	S&I
3	Sub Total		2470		7			2510	
	Net Change in Numbers		4	Increase					
	Net Change in Capacity		40	Increase					

1 (D). Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity

Sl. No.	Naome of Project	State	River	Type	I.C. (MW)	Status
1	Dunadi	Jammu & Kashmir	Kagunegarh	R	60	In Operation as Ranjala Dunadi (15 MW) As per reconciliation study 2014
2	Upper Sindh-I	Jammu & Kashmir	Sind	R	65	In Operation in 22.60 MW
3	Ganderbal	Jammu & Kashmir	Sind	R	75	In Operation in 15 MW
3	Total				200	

2. H.E. Projects in Operation:

Sl.No.	UTILITY/STATIONS	NO. OF STATIONS	NO. OF UNITS X CAPACITY (MW)	RIVER/BASIN*	DISTRICT	CAPACITY (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
JKSPDC								
1	BAGLIHAR-I	1	(3X150)	CHENAB	RAMBAN	450	R(P)	2008
2	BAGLIHAR II [BAGLIHAR]	1	(3X150)	CHENAB	RAMBAN	450	R(P)	2015
3	LOWER JHELUM	1	(3X35)	JHELUM	BARAMULLAH	105	R(P)	1978-1979
4	UPPER SINDH-II	1	(3X35)	SINDH	GANDERBAL	105	R(P)	2001-2002
	TOTAL JKSPDC	4				1110		
NHPC								
1	DULHASTI	1	(3X130)	CHENAB	KISTWAR	390	R(P)	2007
2	SALAL - I&II (SALAL)	1	(6X115)	CHENAB	REASI & UDAMPUR	690	R	1987-95
3	URI-I (URI)	1	(4X120)	JHELUM	BARAMULA	480	R	1996-1997
4	URI-II (URI)	1	(4X60)	JHELUM	BARAMULA	240	R	2013-14
5	SEWA-II [Seawa]	1	(3X40)	SEWA II	MAHSKA	120	R(P)	2010-11
6	KISHENGANGA (KARAL PUR)	1	(3X110)	KISHENGANGA	BANDIPORA	330	R(P)	2018
	SUB-TOTAL NHPC	6				2250		
10	TOTAL J&K	10				3360		

* ALL PROJECTS ARE IN INDUS BASIN.

3A. H.E. Projects Under Active Construction:

Sl.No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	Type (R/S/R(P))	Likely Commissioning
1	Pakal Dul	CVPPL	Kishtwar	1000	Marusadar/ Chenab	Indus	S	2025-26 (July'25)
2	Parnai	JKSPDC	Poonch	37.5	Jhelum	Indus	R	2024-25 (Jun'24)
3	Kiru	CVPPL	Kishtwar	624	Chenab	Indus	R	2025-26 (July'25)
4	Ratle	RHEPPL / NHPC	Kishtwar	850.00	Chenab	Indus	R(P)	2025-26 (Feb'26)
5	Kwar	CVPPL	Kishtwar	540.00	Chenab	Indus	R(P)	2026-27 (Nov'26)
5	Total			3051.5				

3B. H.E. Projects on which Construction is held up:

Sl.No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	Type (R/S/R(P))	Status & Likely Commissioning
1	Lower Kalnai	JKSPDC	Kishtwar	48	Chenab	Indus	R	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. Date of commissioning : 2026-27**
1	Total			48				

** Subject to re-start of work in immediate future

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

4. 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))	Status
1	New Ganderwal	JKSPC	Jhelum/Sindh	Ganderwal	93	10.06.14	R(P)	EC accorded on 27.9.13 & FC accorded on 02.04.2012. #
2	Kirthai-II (Naunut)	CVPPL	Chandrabhaga /Chenab	Kishtwar	930	14.06.2019	R(P)	EC recommended by MoEF&CC on 15.04.2021. FC yet to be obtained by developer.. ###
3	Sawalkote	NHPC	Chenab	Ramban & Udhampur	1856	18.04.18	R(P)	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). FC yet to be obtained. ####
3	Total				2879			

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

###Board of CVPPPL decided that the tender process of the project be cancelled and tenders be re-invited through e-tender mode, due to the delay in PIB/CCEA approval of the project. Subsequently the tendering process of all the work packages was scrapped. Re-tendering and award of works in process.

PIB Proposal at September, 2020 PL for investment approval has been recommended on 14.02.2022. CCEA in its meeting dated 27.04.2022 accorded investment approval.

Extension of validity of Appraisal for further 1 years (i.e.beyond 23.02.2022 to 22.02.2023) on same terms & conditions as contained in OM 23.02.2017, except change in cost estimate was granted vide HPA letter dated 25.03.2022.

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.

####The project was handed over to NHPC vide MoU signed on 03.01.21. The project will be executed by NHPC on BOOT basis. All clearances and appraisal of CEA are yet to be transferred in favour of M/s. NHPC. 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.

5. H.E. Projects Under Examination/Scrutiny in CEA:

Sl. No.	Name of Project	Sector	I.C. (MW)	Agency	Type (R/S/R(P))
1	Uri-I (Stage-II)	State	240	CVPPL	R
1	Total		240		

6. Multipurpose projects approved by MoWR:

Sl. No.	Name of Project	Sector	I.C. (MW)	Month of receipt	Status
1	Bursar	Central	800	Jan-17	Cleared: PPS (14.12.16)
1	Total		800		

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

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

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

8. 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	Target date pf preparation of DPR
1	Dulhasti St-II	Indus/ Chenab	NHPC	Kishtwar	260	R	03.01.2021	March-23
2	Ujh	Ujh, (tributary of Ravi)	JKPDCL	Kathua	196			
2	Total				456			

9. H.E. Projects allotted for development on which Survey & Investigation is held up/ yet to be taken up:

Sl. No.	Project	I. C. (MW)	Agency	District	Date of Allotment/ MoA	Status
1	Shamnot	370	NHPC	Doda	-	S&I held up as the project will submerge National Highway.
1	Total	370				

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

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

10. Projects dropped as per Reconciliation Study by CEA in 2014

Sl. No.	Project Name	River	Type	I.C. (MW)	Remarks
1	Chakothi	Jhelam	R	285	Project located in POK. Hence dropped
2	Chinari	Jhelam	R	475	
3	Hatian	Jhelam	R	215	
4	Gangbal	Kankanag	S	55	Dropped due to Environmental issue
4	Total			1030	

11. H. E. Projects yet to be allotted by the State for development

Sl.No.	Name of Project	River	Type	I.C. (MW)	District
1	Shuas	Chenab	R	505	Doda
2	Barinium(Berinaum)	Chenab	R	435	Doda
3	Naga	Kal Nai	R	29	Kisthwar
4	Kiwa	Kal Nai	R	37	Kisthwar
5	Tipri	Kal Nai	R	36	Kisthwar
6	Bichlari	Bichlari	R	75	Doda
7	Shutkarikulan (Sonmarg)	Sind	S	155	Ganderbal
8	Kishenganga-II (Wangam)	Bonar	R	60	Bandipora
8	Total	8 Nos. of Projects		1332	

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

Status of Large Hydro Power Development in Ladakh

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		23	2046
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	44
Total		24	2090
I	Projects in operation	2	89
II	Projects yet to be allotted by U.T. of Laddakh for development*	22	1866

*The capacity yet to be allotted by U.T. of Laddakh for development is different from arithmetic calculation from the potential assessed due to change in capacity of the projects, addition of the projects, etc.

1. Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Kiari	Indus	R	28
2	Parfila	Zaskar	R	45
3	Paidar	Zaskar	R	46
4	Tillarchu	Zaskar	R	39
5	Nurla (Ulitopo)	Indus	R	65
6	Khalsi (Khalsti)	Indus	R	170
7	Takmaching	Indus	R	75
8	Dumkar	Indus	R	130
9	Achinthang	Indus	R	140
10	Kanyunche	Indus	R	105
11	Batalik (Sunit)	Indus	R	235
12	Parkhachik (Parkhachik Panikar)	Suru	R	110
13	Dandal (Drass Suru-I)	Drass	R	26
14	Khabru (Drass Suru-II)	Drass	R	30
15	Tahanus	Shingo	R	120
16	Karkit	Shingo	R	190
17	Gunderman	Suru	R	120
18	Chalunka	Shyok	R	45
19	Chechesna	Suru	R	47
20	Leh	Indus	R	29
21	Kesar	Indus	R	42
22	Thambas	Suru	R	29
23	Nimu	Indus	S	180
	Total			2046
24	Chutak (Suru) #	Suru	R	44
24	Grand Total	24 Nos. of Projects		2090

Project was identified below 25 MW capacity in Reassessment Study and developed above 25 MW capacity:

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

2. H.E. Projects in Operation:

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

3. H. E. Projects yet to be allotted by U.T. of Laddakh for development

Sl.No.	Name of Project	River	Type	I.C. (MW)	District
1	Kiari	Indus	R	28	Leh
2	Parfila	Zaskar	S	45	Leh
3	Paidar	Zaskar	R	46	Leh
4	Tillarchu	Zaskar	R	39	Leh
5	Nurla (Ulitopo)	Indus	R	65	Leh
6	Khalsi (Khalsti)	Indus	R	170	Leh
7	Takmaching	Indus	R	75	Leh
8	Dumkar	Indus	R	130	Leh
9	Achinthang	Indus	R	140	Leh
10	Kanyunche	Indus	R	105	Leh
11	Batalik (Sunit)	Indus	R	235	Kargil
12	Parkhachik (Parkhachik Panikar)	Suru	R	110	Kargil
13	Dandal (Drass Suru-I)	Drass	R	26	Kargil
14	Khabru (Drass Suru-II)	Drass	R	30	Kargil
15	Tahanus	Shingo	R	120	Kargil
16	Karkit	Shingo	R	190	Kargil
17	Gunderman	Suru	R	120	Kargil
18	Chalunka	Shyok	R	45	Leh
19	Chechesna	Suru	R	47	Kargil
20	Leh	Indus	R	29	Leh
21	Kesar	Indus	R	42	Leh
22	Thambas	Suru	R	29	Kargil
22	Total	22 Nos. of Projects		1866	

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

Status of Large Hydro Power Development in Punjab

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		5	971
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		3	205.3
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		4	0
Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity		-1	-90
Total		11	1086.3
I	Projects in operation	9	1096.3
II	Projects under active construction	1	206
III	Projects held up due to Inter-State aspects	1	50

*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 of projects, etc.

1 (A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C.(MW)
1	Mukerian-I,II, III & IV [Mukerian Canal]	Beas	207
2	Anadpur Sahib-I & II [Anadpur Sahib, Ph-I & II]	Sutlej	134
3	Ranjit Sagar [Thein]	Ravi	325
4	Shahpurkandi [Shahpur]	Ravi	215
5	UBDC	Ravi	90
5	TOTAL		971

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Ganguwal	Satluj	77.65	In Operation
2	SYL		50	Inter-State
3	Kotla	Satluj	77.65	In Operation
3	Sub Total		205.3	

1 (C). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Anandpur Sahib PH I & II	Sutlej	134	Identified	1	Anandpur Sahib I	Sutlej	67	In Operation
					2	Anandpur Sahib II	Sutlej	67	In Operation
2	Mukerian Canal	Beas	207	Identified	3	Mukerian I	Beas	45	In Operation
					4	Mukerian II	Beas	45	In Operation
					5	Mukerian III	Beas	58.5	In Operation
					6	Mukerian IV	Beas	58.5	In Operation
2	Sub Total		341		6			341	
	Net Change in Numbers		4	Increase					
	Net Change in Capacity		0	No Change					

1 (D). Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity

Sl. No.	Name of Project	State	River	Type	I.C. (MW)	Status
1	UBDC	Punjab	Ravi	R	90	**
1	Total				90	

** All three units of UBDC Stage-I have been developed in different locations with (.C. (15 MW) less than 25 MW each. The distance between different locations varies from 3 to 5 km. In UBDC Stage-II also three units have been developed in different locations as above. The distance between each unit of Stage-II w.r.t. corresponding unit of Stage-II is approxi. 100m

2. 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))	YEAR OF COMMISSIONING
PSPCL								
1	ANANDPUR SAHIB-I [Anadpur Sahib, Ph-I & II]	1	(2X33.5)	AHC (CANAL)	RUPNAGAR	67	R	1985
2	ANANDPUR SAHIB-II [Anadpur Sahib, Ph-I & II]	1	(2X33.5)	AHC (CANAL)	RUPNAGAR	67	R	1985
3	MUKERIAN-I [Mukerian Canal]	1	(3X15)	TAIL WATER OF PONG DAM	HOSHIARPUR	45	R	1983
4	MUKERIAN-II [Mukerian Canal]	1	(3X15)	TAIL WATER OF PONG DAM	HOSHIARPUR	45	R	1988-89
5	MUKERIAN-III [Mukerian Canal]	1	(3X19.5)	TAIL WATER OF PONG DAM	HOSHIARPUR	58.5	R	1989
6	MUKERIAN-IV [Mukerian Canal]	1	(3X19.5)	TAIL WATER OF PONG DAM	HOSHIARPUR	58.5	R	1989
7	RANJIT SAGAR [Thein]	1	(4X150)	Reservoir on River Ravi	PATHANKOT	600	S	2000
	TOTAL PSPCL	7				941		
BBMB								
8	GANGUWAL	1	(2X24.2)+ (1X29.25)	SATLUJ	RUPNAGAR	77.65	R	1955-1962
9	KOTLA	1	(2X24.2)+ (1X29.25)	SATLUJ	RUPNAGAR	77.65	R	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

3. H.E. Projects under active Construction:

Sl. No.	Name of Project	Implementing Agency	District	River /Basin	I. C. (MW)	Type (R/S/R(P))	Likely Commissioning
1	Shahpurkandi [Shahpur]	Irr. Deptt. & PSPCL	Gurdaspur	Ravi /Indus	206	R	2024-25 (Aug.'24)
1	Total				206		

4. H.E. Projects held up due to Inter-State aspects:

Sl. No.	Name of Project	I.C. (MW)	Location (State)	States Involved	Status
1	SYL (2x18+2x7 =50 MW)	50	Punjab	Punjab/ Haryana/ Rajasthan	<ul style="list-style-type: none"> •Cleared by CEA in 12/1987 at an estimated cost of Rs.101.28 crores (5/1985 PL). •Work on the canal on which project is located is held up. • Haryana and Rajasthan have raised question regarding their shares of power as it envisages utilizing common facilities and water belonging to all three states, viz. Haryana, Punjab & Rajasthan.
1	Total	50			

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

Status of Large Hydro Power Development in Rajasthan

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		5	483
Project(s) Identified in this State but developed/being developed in other State(s) #		-1	-115
Total		4	368
I	Projects in operation	4	411

Gandhi Sagar (115 MW) was identified in Rajasthan but has been developed in Madhya Pradesh.

In addition to above, two pumped storage project namely Sukhpura off stream (2560 MW) and Shahpur (1800 MW) are under S&I category.

1. Identified Projects during Reassessment study:

Sl. No.	Name of Project	River	I. C. (MW)
1	Gandhi Sagar	Chambal	115
2	Rana Pratap Sagar	Chambal	172
3	Jawahar Sagar	Chambal	99
4	Mahi Bajaj - I [Mahi Bajaj Sagar St-II]	Mahi	60
5	Mahi Bajaj - I [Mahi Bajaj Sagar St-I]	Mahi	37
5	TOTAL		483

2. 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))	YEAR OF COMMISSIONING
1	JAWAHAR SAGAR	1	(3X33)	CHAMBAL	GANGA	BUNDI	99	R(P)	1972-1973
2	MAHI BAJAJ-I [Mahi Bajaj Sagar St-I]	1	(2X25)	MAHI	CIR	BANSWARA	50	S	1986
3	MAHI BAJAJ-II [Mahi Bajaj Sagar St-II]	1	(2X45)	MAHI	CIR	BANSWARA	90	R(P)	1989
4	R P SAGAR	1	(4X43)	CHAMBAL	GANGA	CHITTORGARH	172	S	1968
4	TOTAL RRVUNL	4					411		

Note: Mahi Bajaj Sagar I & II (140 MW) were identified for I.C. of 97 MW.

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

Status of Large Hydro Power Development in Uttar Pradesh

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		6	664
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	90
Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity		-1	-35
Project(s) Identified in this State but developed/being developed in other State(s) #		-1	-39
Total		5	680
I	Projects in operation	4	501.6
II	Projects held up due to Inter-State aspects	1	90

One project, Orchha is under Inter-State issue in the State of M.P. for 90 MW.

1 (A). Identified Projects during Reassessment study:

Sl. No.	Name of Project	River	Type	I. C. (MW)
1	Khara	Yamuna	R	160
2	Matatila	Betwa	S	31
3	Orchha #	Betwa	R	39
4	Rihand	Rihand	S	300
5	Obra	Rihand	R	99
6	Eastern Yamuna Canal ##	Yamuna	R	35
6	TOTAL			664

Orchha is under Inter-State issue in the State of M.P. for 90 MW.

Eastern Yamuna Canal project (35 MW) has been developed in 2 stages each having Installed Capacity below 25 MW

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Panchnaad MPP		90	Inter-State
1	Sub Total		90	

1 (C). Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity

Sl. No.	Naome of Project	State	River	Type	I.C. (MW)	Status
1	Eastern Yamuna Canal	Uttar Pradesh	Yamuna	R	35	Developed in 2 stages below 25 MW
1	Total				35	

2. H.E. 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))	YEAR OF COMMISSIONING
1	KHARA	1	(3X24)	YAMUNA LINK CHANNEL	SUNEBHADRA	72	R(P)	1992
2	MATATILLA	1	(3X10.2)	BETWA	LALITPUR	30.6	S	1965
3	OBRA	1	(3X33)	RIHAND	SUNEBHADRA	99	S	1970-1971
4	RIHAND	1	(6X50)	GOVIND BALLAB PANT NAGAR	SINGRAULI	300	S	1961-1965
4	TOTAL UPJVNL	4				501.6		

* ALL PROJECTS ARE IN GANGA BASIN.

3. H.E. Projects held up due to Inter-State aspects:

Sl. No.	Name of Project	I.C. (MW)	Location (State)	States Involved	Status
1	Panchnad MPP (6x15 = 90MW)	90	U.P.	U.P./M.P/ Rajasthan	DPR with Project estimated cost of Rs 559 Crores (6/1983 PL) returned. Involves submergence in MP and Rajasthan.
1		90			

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

Status of Large Hydro Power Development in Uttarakhand

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		84	17998
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	76
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		2	-830
Change in Projects due to merging of projects (identified during reassessment study in 1978-87)		-4	184
Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity		-2	-71
Total		81	17356.75
I	Projects in operation	18	3975.35
II A	Projects under active construction	3	1024
II B	Projects on which construction is held up	2	247
III	Projects allotted by States for development		
	(i) Projects concurred by CEA and yet to be taken up for construction	3	815
	(ii) Projects returned to project authorities	6	789
	(iii) Multi Purpose Projects (International Projects) under examination by India and Nepal	2	2400
	(iv) Multi Purpose projects	2	960
	(v) Projects under S&I	3	434
	(vi) Projects allotted for development on which S&I is held up/ yet to be taken up	15	2366
IV	Projects dropped/stuck due to Basin studies/ Other reasons	7	2457
V	Projects yet to be allotted by the State for development*	22	3028

Note : In addition to above, one pumped storage project, namely Tehri (4x250 = 1000 MW) is under active construction and is likely to be commissioned by 2023-24(Oct 23).

*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 more than one projects into one etc.

1 (A). Identified Projects during Reassessment study:

Sl. No.	Name of Project	River	Type	I. C. (MW)
1	Nakot Patlasu	Pabar	R	43
2	Pisha Naitwar	Rupin	R	30
3	Taluka Saul	Tons	R	39
4	Sankri Kunare	Tons	R	33
5	Naitwar Mori	Tons	R	70
6	Ugmir	Tons	R	28
7	Tuini	Tons	R	128
8	Kishau Dam	Tons	S	350
9	Chibro	Tons	R	245
10	Khodri	Tons	R	130
11	Kuwa ford	Yamuna	R	42
12	Lakhwar Vyasi-I	Yamuna	S	115
13	Lakhwar Vyasi-II	Yamuna	R	80
14	Dhakrani	Yamuna	R	60
15	Dhalipur	Yamuna	R	100
16	Kulhal	Yamuna	R	65
17	Nelang	Jadh Ganga	R	190
18	Karmoli	Jadh Ganga	R	190
19	Jadh Ganga	Jadh Ganga	R	110
20	Gangotri	Bhagirathi	R	70
21	Bhairon Ghati	Bhagirathi	R	60
22	Harsil Dam	Bhagirathi	R	350
23	Lohari Nag Tharang	Bhagirathi	R	360
24	Pala Bhela Tipri	Bhagirathi	R	165
25	Bhela Tipri	Bhagirathi	R	100
26	Maneri Bhali I	Bhagirathi	R	165
27	Maneri Bhali II	Bhagirathi	R	235
28	Diulong Sumangaon	Bhagirathi	R	26
29	Dhargaon Jhandarwali	Bhagirathi	R	29
30	Jamolna Ghansyali	Bhagirathi	R	44
31	Tehri Dam Stage-I	Bhagirathi	S	740
32	Koteswar	Bhagirathi	R	215
33	Kotlibhel	Bhagirathi	S	1875
34	Rishikesh Hardwar	Bhagirathi	R	360
35	Nayar Dam	Nayar	S	34
36	Badri Nath	Alaknanda	R	260
37	Benakuli	Alaknanda	R	40
38	Vishnu Prayag	Alaknanda	R	430
39	Khel Kuran Neti	Dhauli Ganga	R	49
40	Niti Ghansali	Dhauli Ganga	R	32
41	Bampa Kurkuti	Dhauli Ganga	R	60

42	Girthi Ganga	Girthi Ganga	R	34
43	Malari Jhelam	Dhaulti Ganga	R	90
44	Jhelam Tamak	Dhaulti Ganga	R	150
45	Tamak Lata	Dhaulti Ganga	R	200
46	Deodi	Rishi Ganga	R	65
47	Rishi Ganga I	Rishi Ganga	R	115
48	Rishi Ganga II	Rishi Ganga	R	65
49	Lata Tapoban	Dhaulti Ganga	R	320
50	Tapoban Chunar	Dhaulti Ganga	R	485
51	Vishnu Gad Pipalkoti	Alaknanda	R	480
52	Gohana Tal	Birahi Ganga	S	95
53	Bowala Nand Prayag	Alaknanda	R	170
54	Nand Prayag Langasu	Alaknanda	R	180
55	Khatima	Sarda	R	41
56	Tikh Gurupha	Pindar	R	26
57	Malkhet Dam	Pindar	S	37
58	Devasari Dam	Pindar	S	78
59	Banoli Nalgam	Pindar	R	55
60	Mandakini	Mandakini	R	36
61	Uttyasu Dam	Alaknanda	S	1140
62	Srinagar	Alaknanda	R	375
63	Ramganga Dam (Kalagarh)	Ramganga	S	198
64	Bokang Bailing	Dhaulti Ganga	R	145
65	Chhunger Chal	Dhaulti Ganga	R	145
66	Sela Urthing	Dhaulti Ganga	R	165
67	Urthing Sobla	Dhaulti Ganga	R	340
68	Sobla Jhimirigaon	Dhaulti Ganga	R	145
69	Khet Tawaghat	Dhaulti Ganga	R	225
70	Garba Tawaghat	Sarda	R	195
71	Tawaghat Dharchula	Sarda	R	310
72	Kalika Dantu	Sarda	R	140
73	Mapang Bogudiyar	Gori Ganga	R	185
74	Bogudiyar Sirkaribhyol	Gori Ganga	R	240
75	Sirkaribhyol Rupsiya Bagar	Gori Ganga	R	145
76	Rupsiya Bagar Khasiyabara	Gori Ganga	R	280
77	Devibagar Khartoli	Gori Ganga	R	40
78	Khartoli Lumti Talli	Gori Ganga	R	105
79	Garjia Dam	Gori Ganga	S	295
80	Ramganga Dam	Ramganga	S	75
81	Pancheshwar - I	Sarda	S	1335
82	Pancheshwar - II	Sarda	S	1065
83	Tanakpur	Sarda	R	210
84	Ganga Canal	Ganga	R	31
84		TOTAL		17998

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Phata Byung	Mandakini/ Alaknanda	76	Construction is held up
1	Sub Total		76	

1 (C). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Kotlibhel	Bhagirathi	1875	Identified	1	Kotlibhel-IA	Bhagirathi	195	Concurred
					2	Kotlibhel-IB	Bhagirathi	320	Concurred
					3	Kotlibhel-II	Bhagirathi	530	Dropped
1	Sub Total		1875		3	Sub Total		1045	
Net Change in Numbers			2	Increase					
Net Change in Capacity			-830	Decrease					

1 (D). Change in Projects due to merging of projects (identified during reassessment study in 1978-87)

Before Merging					After Merging				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Taluka Saul	Tons	39	Identified	1	Taluka Sankri	Tons	140	Held Up
2	Sankri Kunare	Tons	33	Identified					
3	Pala Bhela Tipri	Bhagirathi	165	Identified	2	Pala Maneri	Bhagirathi	480	Dropped
4	Bhela Tipri	Bhagirathi	100	Identified					
5	Gangotri	Bhagirathi	70	Identified	3	Bhaironghati	Bhagirathi	381	Dropped
6	Bhairon Ghati	Bhagirathi	60	Identified					
7	Harsil Dam	Bhagirathi	350	Identified					
7	Sub Total		817		3	Sub Total		1001	
Net Change in Numbers			-4	Decrease					
Net Change in Capacity			184	Increase					

1 (E). Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity

Sl. No.	Name of Project	State	River	Type	I.C. (MW)	Status
1	Nayar dam	Uttarakhand	Nayar	S	34	Developed below 25 MW
2	Malkhet	Uttarakhand	Pindar	S	37	Developed below 25 MW
2	Total				71	

2. 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))	YEAR OF COMMISSIONING
	CENTRAL SECTOR							
	NHPC							
1	DHAULI GANGA [KHET TAWAGHAT]	1	(4X70)	DHAULIGANGA	PITHORAGARH	280	R(P)	2005
2	TANAKPUR	1	(3X31.4)	SARDA	CHAMPAVAT	94.2	R	1992
	SUB-TOTAL NHPC	2				374.2		
	THDC							
3	TEHRI ST-I [TEHRI DAM ST-I]	1	(4X250)	BHAGIRATHI	TEHRI GARHWAL	1000	S	2006-2007
4	KOTESHWAR	1	(4X100)	BHAGIRATHI	TEHRI GARHWAL	400	R(P)	2010-12
	TOTAL THDC	2				1400		
	SUB TOTAL CENTRAL	4				1774.2		
	STATE SECTOR							
	UJVNL							
5	CHIBRO (YAMUNA) [CHIBRO]	1	(4X60)	Tons River at Ichari Dam	DEHRADUN	240	R(P)	1975-1976
6	CHILLA [RISHIKESH HARDWAR]	1	(4X36)	GANGA	HARIDWAR	144	R	1980-1981
7	DHAKRANI	1	(3X11.25)	Tons & Yamuna Rivers at Dakpathar Barrage	DEHRADUN	33.75	R	1965-1970
8	DHALIPUR	1	(3X17)	Tons & Yamuna Rivers at Dakpathar Barrage	DEHRADUN	51	R	1965-1970
9	KHATIMA	1	(3X13.8)	SHARDA	UDHAM SINGH NAGAR	41.4	R	1955-1956
10	KHODRI	1	(4X30)	TONS	DAK PATHAR	120	R(P)	1984
11	KULHAL	1	(3X10)	TONS	DEHRADUN	30	R	1975
12	MANERI BHALI- I	1	(3X30)	BHAGIRATHI	UTTARKASHI	90	R(P)	1984
13	MANERI BHALI- II	1	(4X76)	BHAGIRATHI	UTTARKASHI	304	R(P)	2008
14	RAMGANGA [RAMGANGA DAM (KALAGARH)]	1	(3X66)	RAMGANGA	PAURI GARHWAL	198	S	1975-1977
15	VYASI	1	(2x60)	YAMUNA/GANGA	DEHRADUN	120	R(P)	2022
	TOTAL UJVNL	11				1372.15		
	PRIVATE							
	AHPC							
16	SHRINAGAR	1	(4X82.50)	ALAKNANDA	TRHRI & PAURI	330	R(P)	2015
	JPPVL							
17	VISHNU PRAYAG	1	(4X100)	ALAKNANDA		400	R	2006
	ReNew Power							
18	SINGOLI BHATWARI	1	(3X33)			99	R	2020
	SUB TOTAL PRIVATE	3				829		
18	TOTAL UTTARAKHAND	18				3975.35		

Note: ALL PROJECTS ARE IN GANGA BASIN

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

2A. H.E. Projects under active Construction:

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	District	Type (R/S/R(P))	Likely Commissioning
1	Vishnugad Pipalkoti	THDC	Chamoli	444	Alaknanda	Ganga	Chamoli	R	2024-25 (Mar'25)
2	Naitwar Mori	SJVNL	Uttarkashi	60	Tons/ Yamuna	Ganga	Uttarkashi	R(P)	2022-23 (March'23)
3	Tapovan Vishnugad [Tapovan Chunar]	NTPC	Chamoli	520	Dhauliganga / Alaknanda	Ganga	Chamoli	R	2024-25 (Dec'24)
3	Total			1024					

Note : In addition to above, one pumped storage project, namely Tehri (4x250 = 1000 MW) is under active construction and is likely to be commissioned by 2023-24 (Oct 23).**

##Trial run of Unit-2 and Unit-1 completed during April'22 and May'22 respectively.

** 2 units (500 MW) likely during 2022-23 & 2 units (500 MW) during 2023-24

2B. H.E. Projects on which Construction is held up:

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	District	Type (R/S/R(P))	Status & Likely Commissioning
1	Lata Tapovan	NTPC	Chamoli	171	Dhauliganga / Alaknanda	Ganga	Chamoli	R	Infrastructure works almost completed. As per Hon'ble Supreme Court vide its order dated 07.05.2014 stayed the construction of 24 Hydro projects in Uttarakhand including Lata Tapovan HEPP. According all construction activities stopped since 08.05.14. Main works to re-start after clearance from Hon'ble Supreme Court. 2028-29*
2	Phata Byung	LANCO	Rudraprayag	76	Mandakini/ Alaknanda	Ganga	Rudraprayag	R	Works stalled since July, 2017 due to Financial crunch with the contractor / developer. The company is undergoing a corporate insolvency resolution process initiated under IBC for resolution and revival of the project since June 2020. Under this process, the resolution professional appointed by the NCLT initiated the process for inviting prospective investors for the project. On 25.02.2022, the CoC approved the Final Statkraft IH Holding AS Resolution Plan by a majority of 100%. The Resolution Professional has filed for approval of the resolution Plan Application before the Hon'ble NCLT. Once the Resolution Plan is approved by the NCLT, the successful Resolution Applicant will take over the company and revive the project. 2025-26*
2	Total			247					

* Subject to re-start of work in immediate future

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

3. 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))	Status
1	Kotlibhel St-IA [Kotlibhel]	Bhagirathi	NHPC	Tehri Garhwal	195	R	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 [Kotlibhel]	Alaknanda	NHPC	Pauri & Tehri Garhwal	320	R	EC accorded earlier on 14.08.07 is withdrawn on 15.09.10. MoEF&CC declined FC-I on 7.07.11.##
3	Alaknanda [Badri Nath]	Alaknanda	GMR	Chamoli	300	R	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

4. Multi purpose projects (International Projects) under examination by India and Nepal

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Pancheshwar MPP [Pancheshwar - I]	Sarda	S	1335
2	Rupali Garh Regulating Dam [Pancheshwar - II]	Sarda	S	1065
2	Total			2400

Note: S- Storage

5. Multi purpose projects

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Lakhwar MPP (Lakhwar Vyasi - I)	Yamuna	S	300
2	Kishau MPP	Tons	S	660
2	Total			960

6. 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 [Ugmir]	Tons		Private		63	Jan-10
3	Bogudiyar Sirkari Bhyol	Gori Ganga	GVK L&T	Private	R	146	Sep-10
4	Tiuni Plasu [Tiuni]	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
6	Total					789	

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

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

Sl. No.	Name of Project	Basin/River	I.C. (MW)	Agency	District	Type (R/S/R(P))	Target date of preparation of DPR
1	Sirkari Bhyol Rupsiabagar	Gori Ganga	120	UJVNL	Pithoragarh	R	March'23
2	Bokang Bailing	Dhauliganga	200	THDC	Pithoragarh	R	June'23
3	Sela Urthing	Dhauliganga	114	UJVNL	Pithoragarh	R	Dec-23
3	Total		434				

8. H.E. Projects allotted for development on which Survey & Investigation is held up/ yet to be taken up:

Sl. No.	Project	River	I. C. (MW)	Agency	District	Date of Allotment/ MoA	Status
1	Arakot Tiuni [Nakot Patlasu]	Pabar , Tons	72	UID	Uttarkashi	-	MOEF clearance awaited. S&I yet to be taken up.
2	Chhunger - Chal	Dhauliganga	120	NHPC	Pithoragarh	21.11.2005	S&I 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.
3	Garba Tawaghat	Goriganga	630	NHPC	Pithoragarh	21.11.2005	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.
4	Urthing Sobla	Dhauliganga	280	Reliance Power Ltd.	Pithoragarh	-	MoEF Clearance awaited. S&I heldup as the project area falls under ASkot Musk deer Sanctuary
5	Jadh Ganga	Jadh Ganga	50	THDC	Uttarkashi	21.11.2005	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court. Project also fall in Gangotri National Park and notified as Eco-Sensitive Zone by central Govt. Hence no activities are being taken up. Proposed to be dropped as per Draft final Report of EB-II.
6	Karmoli	Jadh Ganga	140	THDC	Uttarkashi	21.11.2005	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court. Project also fall in Gangotri National Park (notified as Eco-Sensitive Zone by Central Govt). Hence no activities are being taken up. Proposed to be dropped as per Draft final Report of EB-II.
7	Rishi Ganga - I	Rishi Ganga	70	UJVNL	Chamoli	09.12.2004	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court. Proposed to be dropped as per Draft final Report of EB-II.
8	Rishi Ganga - II	Rishi Ganga	35	UJVNL	Chamoli	09.12.2004	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court. Proposed to be dropped as per Draft final Report of EB-II.
9	Taluka Sankri [Taluka Saul + Sankri Kunare]	Tons	140	UJVNL	Uttarkashi	09.12.2004	Project located in Govind Pashu Vihar & Govind National Park.

10	Gohana Tal	Birahi Ganga	50	THDC	Chamoli	21.11.2005	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court. Further, the project shall not be viable due to Gazette of India, notification dtd. 09.10.2018 on e-flows. Proposed to be dropped as per Draft final Report of EB-II.
11	Karmoli Lumti Tulli [Khartoli Lumti Talli]	Goriganga	40	NHPC	Pithoragarh	07.04.2005	Project falls within 10 km from boundary of Askot Wildlife sanctuary. PCCF (Wildlife) and Chief Warden Wildlife, Dehradun has since granted permission for S&I on 13.12.2016. NHPC vide letter dated 16.07.2019 intimated GoUK that project is commercially unviable.
12	Maleri Jhelam [Malari Jhelam]	Dhauliganga	65	THDC	Chamoli	21.11.2005	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court. Project is not viable as the e-flows have been increased vide The Gazette of India Dtd. 09.10.2018. Proposed to be dropped as per Draft final Report of EB-II.
13	Mapang - Bogidiyar	Goriganga	200	GVK-L&T	Pithoragarh	07.05.2005	S&I held up due to Supreme Court order directing MoEF and State of Uttarakhand not to grant any Environmental Clearance or Forest Clearance for any hydro electric project in the State of Uttarakhand until further orders. State of Uttarakhand has scrapped the project and planning to re-tender for the same.
14	Tamak Lata	Dhauliganga	280	UJVNL	Chamoli	09.12.2004	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court.
15	Devsari	Pinder	194	SJVN Ltd.	Chamoli	Nov., 2005	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
15	Total		2366				

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

9. Projects dropped/ Stuck due to Basin studies/ Other reasons:

Sl. No.	Project	I.C. (MW)	River	Basin	Type (R/S/R(P))	Remarks
1	Pala Maneri * [Pala Bhela Tipri + Bhela Tipri]	480	Bhagirath	Ganga	R(P)	The project has been discontinued by Govt. of Uttarakhand due to additional conditions for environmental safeguards vide order dated 3.01.11.
2	Kotlibhel St-II [Kotlibhel]	530	Bhagirath	Ganga	R	MoEF on 22.11.2010 has withdrawn the environment clearance. FC-I declined on 5.07.11. 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 given its report to MoEF&CC in Sept, 2017. The expert Body has recommended to drop the project to preserve Mahseer.
3	Loharinagpala * [Lohari Nag Tharang]	360	Bhagirath	Ganga		Project discontinued by NGRBA
4	Bhaironghati * [Gangotri + Bhaironghati + Harsil Dam]	381	Bhagirath	Ganga		Project discontinued by NGRBA
5	Rupsiyabagar Khasiyabara	261	Gauri Ganga	Ganga	R	EC accorded on 26.03.09. FC-I accorded on 17.06.2006 and FC-II yet to be obtained. MoEF&CC declined FC due to project location in highly sensitive wild life habitat.
6	Goriganga-III A	150	Gauri Ganga	Ganga	R(P)	The DPR has been examined and cleared from planning, design & cost angle, financial and commercial angle. It has been observed that first year and levelised tariff computed by NHPC are of the order of ₹8.09/kWh and ₹8.13/kWh respectively which are on higher side and the same was communicated to NHPC vide letter dated 25.08.2020. NHPC limited vide letter dated 23.10.2020 has intimated that in order to bring down the tariff they have requested Govt. of Uttarakhand for providing waiver of free power, State GST concession and subordinate loan. NHPC has also asked Ministry of Power to take up the matter with Govt. of Uttarakhand for extending support through concessions. Considering that above matter may take some time to conclude in NHPC's favour, the examination of DPR of Goriganga-III A H.E. project has been suspended till such time. DPR examination shall be continued here onwards after above issues are resolved with State Govt.
7	Garjia	295	Gori ganga	Ganga		Environmental Issue
7	Total	2457				

* As per MoP letter dated 24.12.2010 in the meeting of NGRBA held on 1.11.2010 under the chairmanship of Hon'ble Prime Minister, it was decided to discontinue Loharinag Pala, Pala Maneri and Bhaironghati H.E. Projects on Bhagirathi.

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

10. H. E. Projects yet to be allotted by the State for development

Sl.No.	Name of Project	River	Type	I.C.(MW)	District
1	Kishau Dam	Tons	S	350	Dehradun
2	Pisha Naitwar	Rupin	R	30	Uttarkashi
3	Ram Ganga Dam	Ram Ganga	S	75	Pithoragarh
4	Kuwa ford	Yamuna	R	42	Uttarkashi
5	Nelang	Jadh Ganga	R	190	Uttarkashi
6	Ganga Canal	Ganga	R	31	
7	Diulong Sumangaon	Bhagirathi	R	26	Tehri
8	Dhargaon Jhandarwali	Bhagirathi	R	29	Tehri
9	Jamolna Ghansyali	Bhagirathi	R	44	Tehri
10	Benakuli	Alaknanda	R	40	Chamoli
11	Khel Kuran Neti	Dhaulti Ganga	R	49	Chamoli
12	Niti Ghansali	Dhaulti Ganga	R	32	Chamoli
13	Bampa Kurkuti	Dhaulti Ganga	R	60	Chamoli
14	Girithi Ganga	Girithi Ganga	R	34	Chamoli
15	Deodi	Rishi Ganga	R	65	Chamoli
16	Tikh Gurupha	Pindar	R	26	Bageshwar
17	Banoli Nalgam	Pindar	R	55	Chamoli
18	Lakhwar MPP (Lakhwar Vyasi - I)	Yamuna	S	115	Dehradun
19	Uttyasu Dam	Alaknanda	S	1140	Rudraprayag
20	Sobla Jhimirigaon	Dhaulti Ganga	R	145	Pithoragarh
21	Tawaghat Dharchula	Sarda	R	310	Pithoragarh
22	Kalika Dantu	Sarda	R	140	Pithoragarh
22	Total	22 nos. of projects		3028	

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

Status of Large Hydro Power Development in Chhattisgarh

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		15	2202
I	Projects in operation	1	120
II	Projects dropped due to Basin studies/ Other reasons	3	627
III	Projects yet to be allotted by the State for development*	11	1124

*The capacity, yet to be allotted by the State for development is different from arithmetic calculation from the potential assessed due to change in capacity of the Projects.

1. Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C. (MW)
1	Joka	Kanhar	28
2	Kharauli	Mahan	46
3	Pasal	Rihand	55
4	Duniadhih (Duniadhin)	Rihand	80
5	Rehar-II (Karri)	Rihand	70
6	Hasdeo Bango [Hasdeo (Bango)]	Hasdeo	55
7	Konta	Sabari	65
8	Matnar (Chitrakot)	Indravati	38
9	Bodhghat	Indravati	295
10	Kutru-I	Indravati	100
11	Kutru-II	Indravati	155
12	Nugur-I	Indravati	160
13	Bhopalapatnam	Indravati	715
14	Nugur-II	Indravati	270
15	Kotri	Kotri	70
15	Total		2202

2. H.E. Projects in Operation:

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

3. H.E. Projects dropped due to Basin studies/ Other reasons:

Sl. No.	Name of Project	I.C. (MW)	River	Basin	Type (R/S/R(P))	Remarks
1	Matnar [Chitrakot]	60	Indravati	EFR	R(P)	As per MoEF&CC, matter of FC is closed. As per developer, project seems not to viable with revised IC of 40 MW and it is expected to be dropped
2	Bhopalapatnam	90	Indravati	EFR		Environmental Issue
3	Nugur-II	477	Indravati	EFR		Environmental Issue
3	Total	627				

4. H. E. Projects yet to be allotted by the State for development

Sl. No.	Name of Project	River	Type	I.C. (MW)	District
1	Joka	Kanhar	S	28	Surguja
2	Kharauli	Mahan	R	46	Surguja
3	Pasal	Rihand	S	55	Surguja
4	Duniadhih (Duniadhin)	Rihand	S	80	Surguja
5	Rehar-II (Karri)	Rihand	R	70	Surguja
6	Konta	Sabari	R	65	Dantewada
7	Bodhghat	Indravati	S	295	Dantewada
8	Kutru-I	Indravati	S	100	Bastar
9	Kutru-II	Indravati	S	155	Bastar
10	Nugur-I	Indravati	S	160	Dantewada
11	Kotri	Kotri	S	70	Bastar
11	Total	11 Nos. of Projects		1124	

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

Status of Large Hydro Power Development in Goa

	No.	I.C. (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)	1	55
Projects dropped due to Basin studies/ Other reasons:	1	55

1. Identified Project during Reassessment study :

Sl.No.	Name of Scheme	River	I. C. (MW)
1	Sonal	Mandavi	55
1	TOTAL		55

2. Projects dropped due to Basin studies/ Other reasons:

Sl.No.	Name of Project	River	Type	I.C. (MW)	Remarks
1	Sonal	Mandavi	S	55	Environmental issue
1	Total	1 No. of Project		55	

Note: S- Storage

Status of Large Hydro Power Development in Gujarat

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		2	590
I	Capacity in operation	2	550

Note : In addition to above, 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.

1. Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C. (MW)
1	Ukai [Ukai Dam PH]	Tapti	120
2	Sardar Sarovar CHPH [Sardar Sarovar]	Narmada	470
2	TOTAL		590

2. 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))	Year of commissioning
	GSECL							
1	UKAI [Ukai Dam PH]	1	(4X75)	TAPI	TAPI	300	S	1974-1976
	SUB-TOTAL GSECL	1				300		
	SSNNL							
2	SARDAR SAROVAR CHPH [Sardar Sarovar]	1	(5X50)	NARMADA	NARMADA	250	R(P)	2004
	SUB-TOTAL SSNNL	1				250		
2	TOTAL GUJARAT	2				550		

* All projects are in CIR Basin

Note : In addition to above, 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.

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

Status of Large Hydro Power Development in Maharashtra

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		25	3314
Project identified below 25 MW capacity in Reassessment Study but developed above 25 MW capacity		1	34
Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity		-2	-67
Total		24	3281
I	Projects in operation	12	2647
II	Projects yet to be allotted by the State for development*	12	1865

Note : In addition to above, two pumped storage projects, namely Ghatgar (2x125 = 250 MW) and Bhira (1x150 = 150 MW) are constructed & working in pumping mode while construction on one project, namely Koyna Left Bank (2x40= 80 MW) is held up and it is likely to be commissioned by 2027-28.

One project namely Warasgaon (4 x300=1200 MW) is Under S&I and Humbarli (2x200=400MW), Ghatghar St-II(1x 125=125MW), Malshej ghat (2x 350=700 MW), Mutkhel (1x 110=110MW), Chikaldara (2x200=400MW), Varandhghat (2 x 400=800 MW), Panshet (4x 400 =1600MW), Nive (4 x 300=1200 MW) & Kodali (2 x 110=220 MW) are under PFR prepared category.

Also, two pumped storage projects, namely Bhavali(6x250 = 1500MW) and Gandhi Sagar (5x240+2x120=1440MW) are under S&I.

*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 of the projects,etc.

1 (A). Identified Projects during Reassessment study

Sl.No.	Name of Project	River	I. C. (MW)
1	Vaitarna (Vaitarna I)	Vaitarna	28
2	Bhira Tail Race	Kundalik	55
3	Tillari	Tillari	39
4	Pench	Pench	85
5	Gosikhurd (Pathri)	Wainganga	40
6	Wainganga	Wainganga	150
7	Samda	Pranhita	95
8	Chichdoh Barrage (Ghargaon)	Pranhita	105
9	Kunghara	Pranhita	115
10	Pranhita	Pranhita	310
11	Sahasrakund (Sahasrakund I)	Penganga	29
12	Bhivpuri	Andhra	85
13	Khopoli	Ganga	70
14	Bhira	Mula	215
15	Koyna St-IV	Koyna	350
16	Koyna St-III	Koyna	145
17	Koyna St-I & II	Koyna	245
18	Koyna Dam PH	Koyna	65
19	Patharpunj	Varna	29
20	Kadvi	Varna	215
21	Warna (Varna)	Varna	27
22	Kasari (Kasari-I)	Kasari	215
23	Kumbhi (Kubhi-I)	Penganga	170
24	Kumbhi (Kumbhi-II)	Penganga	27
25	Hiranyakeshi (Hiranyakeshi II)	Vedganga	405
25	TOTAL		3314

1 (B). Project identified below 25 MW capacity in Reassessment Study but developed above 25 MW capacity

Sl.No.	Name of Project	River	I.C. (MW)	Status	Remarks
1	Bhandardhara St.II	Pravara	34	In Operation	Bhandardhara-II - 14 MW
1	Sub Total		34		

1 (C). Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity

Sl. No.	Naome of Project	State	River	Type	I.C. (MW)	Status
1	Gosikhurd (Pathri)	Maharashtra	Wainganga	S	40	Developed below 25 MW
2	Warna(Varna)	Maharashtra	Varna	S	27	Developed below 25 MW
2	Total				67	

2. 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))	Year of commissioning
MAHAGENCO									
1	BHIRA TAIL RACE	1	(2X40)	KUNDALIKA	WFR	RAIGAD	80	R(P)	1987-1988
2	KOYNA DPH	1	(2X18)	KOYNA	EFR	SATARA	36	S	1980-1981
3	KOYNA-I&II	1	(4X70)+ (4X80)	KOYNA	EFR	PATAN	600	S	1962-1967
4	KOYNA-III	1	(4X80)	Water let out through ulestward units (St-I,II & IV)	EFR	RATNAGIRI	320	R(P)	1975-1978
5	KOYNA-IV	1	(4X250)	KOYNA	EFR	SATARA	1000	S	1999-2000
6	TILLARI	1	(1X60)	TILLARI	WFR	KOLHAPUR	60	R(P)	1986
7	VAITARNA (Vaitarna I)	1	(1X60)	VAITARNA	WFR	NASIK	60	S	1976
	SUB-TOTAL MAHAGENCO	7					2156		
MPPGCL									
8	PENCH	1	(2X80)	PENCH	EFR	CHINDWARA	160	S	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)	1996
	SUB-TOTAL DLHP	1					34		
TATA POWER COMPANY (PVT.)									
10	BHIRA	1	(6X25)	NEELA & MULA	EFR	RAIGAD	150	S	1927-1949
11	BHIVPURI	1	(3X24) + (2X1.5)	ANDHRA	EFR	RAIGAD	75	S	1997-1999
12	KHOPOLI	1	(3X24)	INDRAYANI	EFR	RAIGAD	72	S	2001-2003
	SUB-TOTAL TPCL	3					297		
	TOTAL PVT (MAHARASHTRA)	4					331		
12	TOTAL MAHARASHTRA	12					2647		

Note : In addition to above, two pumped storage projects, namely Ghatgar (2x125 = 250 MW) and Bhira (1x150 = 150 MW) are constructed & working in pumping mode while construction on one project, namely Koyna Left Bank (2x40= 80 MW) is held up and it is likely to be commissioned by 2027-28 subject to re-start of work in immediate future.

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

3. H. E. Projects yet to be allotted by the State for development

Sl .No.	Name of Project	River	Type	I.C.(MW)	District
1	Wainganga	Wainganga	S	150	Border of Gadchiroli and Chandrapur district
2	Samda	Pranhita	R	95	Border of Gadchiroli and Chandrapur district
3	Chichdoh Barrage (Ghargaon)	Pranhita	R	105	Gadchiroli
4	Kunghara	Pranhita	R	115	Border of Gadchiroli and Chandrapur district
5	Pranhita	Pranhita	S	310	Gadchiroli
6	Sahasrakund (Sahasrakund I)	Penganga	S	29	Yavatmal
7	Patharpunj	Varna	S	29	Satara
8	Kadvi	Varna	S	215	Kolhapur
9	Kesari (Kasari-I)	Kasari	S	215	Kolhapur
10	Kumbhi (Kubhi-I)	Penganga	S	170	Kolhapur
11	Kumbhi (Kubhi-II)	Penganga	R	27	Kolhapur
12	Hiranyakeshi (Hiranyakeshi II)	Vedganga	S	405	Kolhapur
12	Total	12 Nos. of Projects		1865	

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

Status of Large Hydro Power Development in Madhya Pradesh

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		13	1970
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		2	110
Projects Identified in other State(s) but developed/being developed in this State #		2	205
Total		17	2285
I	Projects in operation	9	2235
II	Projects on which construction is held up	1	400
III	Projects held up due to Inter-State aspects	2	140
IV	Projects dropped due to Basin studies/ Other reasons	1	100
V	Projects yet to be allotted by the State for development*	4	191

Gandhi Sagar in Rajasthan & Orchha in U.P.

*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 of the projects, etc.

Note : In addition to above, one pumped storage project, namely MP30 Gandhi Sagar (5x240+2x120=1440MW) is under S&I and two pumped storage project, namely Tekwa-2 (800 MW) and Satpura-2 (1000 MW) are under PFR Preparation stage

1 (A). Identified Projects during Reassessment study			
S.No.	Name of Project	River	I.C. (MW)
1	Sone (Chorhat)	Sone	55
2	Bansagar-III (Bansagar)	Sone	45
3	Bansagar-II (Beehar)	Tons	30
4	Bansagar-I (Tons HE Projects)	Tons	315
5	Rajghat	Betwa	29
6	Dhurwara	Betwa	28
7	Burhner	Burhner	28
8	Basania	Narmada	60
9	Bargi	Narmada	115
10	Hoshangabad (Jahanpur)	Narmada	75
11	Indira Sagar (Narmada Sagar)	Narmada	675
12	Omkareshwar	Narmada	290
13	Maheshwar	Narmada	225
13	Total		1970

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Ken	Ken	50	Inter-State
2	Madhikhera	Kali Sindh	60	In Operation
2	Sub Total		110	

2. H.E. Projects in Operation:

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

3. H.E. Projects on which Construction is held up:

Sl. No.	Name of Project	I. C. (MW)	District	River	Basin	Agency	Type (R/S/R(P))	Status & Likely Commissioning
1	Maheshwar (Pvt.) #	400	Khargone & Khandwa	Narmada	CIR	SMHPCL	R	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.
1	Total	400						

* Subject to re-start of work in immediate future

4. H.E. Projects held up due to Inter-State aspects:

Sl. No.	Name of Project	I.C. (MW)	Location (State)	States Involved	Status
1	Orcha MPP (2x30+2x15 = 90 MW)	90	M.P.	U.P./M.P.	· DPR with estimated cost of Rs. 89.01 crores (3/1980 PL) returned in 07/1985. · Inter-state aspects mainly relate to submergence under the reservoir as well as sharing of water below Orcha.
2	Ken (2x15+2x10 =50 MW)	50	M.P.	U.P./M.P.	· DPR with estimated cost of Rs 202.06 crores returned in 2/1987. · The yield at the project site and sharing of water u/s & d/s of the project has been agreed between U.P. & M.P. Both the States have also agreed for preparation of DPR for the Ken MPP and NWDA proposal for transfer of surplus water of Ken to Betwa u/s of Rajghat Dam. · DPR for Ken-Betwa River Linking Project has been prepared by NWDA in Dec., 2008, copies of which were forwarded by them to Govt. of M.P. and Govt. of U.P. The status of the project was discussed by the respective Govts./NWDA/ MOWR in the meeting taken by Secretary (WR) on 04.08.2010 and it was decided that S&I works will be taken up by NWDA on priority.
2	Total	140			

5. Projects dropped due to Basin Studies/ Other reasons:

Sl. No.	Name of Project	Sector	I.C. (MW)	Month of Return	Remarks
1	Sone (Chorhat)	State	100	Apr-03	DPR returned due to non-furnishing of basic inputs/ clearances. Since the project is not feasible with the re-conceptualized proposal of lower FRL, the MPPGCL has dropped the project in April,2017.
1		Total	100		

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

6. H. E. Projects yet to be allotted by the State for development:

S.No.	Name of Project	River	Type	I.C. (MW)	District
1	Dhurwara	Betwa	R	28	Shivpuri
2	Burhner	Burhner	S	28	Mandia
3	Basania	Narmada	R	60	Mandia
4	Hoshangabad (Jahanpur)	Narmada	S	75	Hoshangabad
4	Total			191	

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

Status of Large Hydro Power Development in Andhra Pradesh

	Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)	11	3261
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)	1	50
Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity	-1	-44
Project(s) Identified in this State but developed/being developed in other State(s) #	-1	-205
Total	10	3062
I Projects in operation	5	1610
II Projects under active construction	1	960
III Projects held up due to Inter-State aspects	1	975
IV Projects dropped due to Basin studies/ Other reasons	1	95
V Projects yet to be allotted by the State for development*	2	97

The Project, Machkund has been in operation in Odisha State for 114.75 MW

Note : In addition to above, one pumped storage project, namely Pinnapuram (4x240+2x120 =1200 MW) is under active construction and ten projects namely Kurukutti (1200 MW),Karrivalasa (1000 MW), Gandikota (1000 MW),Owk (800 MW),Somsila (900 MW), Chitravathi (500 MW), Yerravaram (1200 MW),Paidipalem East (1200 MW), Singanamala(800 MW) and Paidipalem North (1000 MW) are under S&I. One project namely Upper Sileru (1350 MW) is under S&I Held Up.

*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, etc.

1 (A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C. (MW)
1	Machkund #	Machkund	205
2	Balimela	Sileru	65
3	Upper Sileru I&II (Upper Sileru)	Sileru	150
4	Lower Sileru	Sileru	385
5	Donkarayi Dam Canal ## (Donkarai Canal)	Sileru	44
6	Polavaram	Godavari	545
7	Pondugala	Krishna	95
8	Nagarjunasagar RBC & Ext. (Nagarjunasagar RBC)	Krishna	45
9	Srisaillam	Krishna	775
10	Tungabhadra HLC (Tungbhadra HLC)	Bhadra	32
11	Inchampalli	Godavari	920
11	Total		3261

This project has been in operation in Odisha State for 114.75 MW

This project has been in operation but developed with capacity less than 25 MW

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	NJ Sagar TPD	Krishna	50	In Operation
1	Sub Total		50	

1 (C). Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity

Sl. No.	Name of Project	State	River	Type	I.C. (MW)	Status
1	Donkarai Canal	Andhra Pradesh	Sileru	S	44	Developed below 25 MW
1	Total				44	

2. 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))	Year of commissioning
APGENCO								
1	LOWER SILERU	1	(4X115)	SILERU	KHAMMAM	460	S	1976-1978
2	NAGARJUNA SGR RBC & EXT. (NAGARJUNA SGR RBC)	1	(3X30)	KRISHNA	SATRASALA	90	S	1983-90
3	SRISAILAM	1	(7X110)	KRISHNA	MAHABUBNA GAR	770	S	1982-1987
4	UPPER SILERU-I&II (UPPER SILERU)	1	(4X60)	SILERU	VISHAKAPAT NAM	240	S	1967-1995
5	NJ SAGAR TPD	1	(2X25)	KRISHNA	GUNTUR	50	R(P)	2017
5	TOTAL APGENCO	5				1610		

* All projects are in EFR Basin

3. H.E. Projects under active construction:

Sl. No.	Name of Project	Agency	District	River/ Basin	I. C. (MW)	Type (R/S/R(P))	Likely Commissioning
1	Polavaram	Polavaram Project Authority	East & West Godavari	Godavari/ EFR	960	S	2024-26 (Mar'26)
1	Total				960		

4. H.E. Projects held up due to Inter-State aspects:

Sl. No.	Name of Project	I.C. (MW)	Location (State)	States Involved	Status
1	Inchampalli MPP (13x75= 975MW)	975	A.P.	A.P./M.P./Chhattisgarh/Maharashtra	DPR with estimated cost of Rs.1110 crores (1987-88 PL) returned in 05/1989. Requires Resolution of inter-state aspects and submergence with MP, Chhattisgarh and Maharashtra.
1	Total	975			

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

5. Projects dropped due to Basin studies/ Other reasons:

Sl. No.	Name of Project	Agency	River / Basin	I.C. (MW)	Status
1	Pondugala		Krishna/EFR	95	Abandoned by State

6. H. E. Projects yet to be allotted by the State for development:

Sl.No.	Name of Project	River	Type	I. C. (MW)	District
1	Balimela	Sileru	S	65	Malkangri
2	Tungbhadra HLC	Bhadra	R	32	Bellari
2	Total			97	

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

Status of Large Hydro Power Development in Karnataka

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		38	6459
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	139.2
Projects identified below 25 MW capacity in Reassessment Study and being developed above 25 MW		1	200
Project(s) Identified in this State but developed/being developed in other State(s) #		-2	-126
Total		38	6672.2
I	Projects in operation	16	3689.2
II	Projects returned to project authorities	2	665
III	Projects held up due to Inter-State aspects	1	400
IV	Projects dropped due to Basin studies/ Other reasons	6	1870
V	Projects yet to be allotted by the State for development*	13	1178

Rasi Manal [Cauvery PH-III] (90 MW) & Hogenekkal [Cauvery PH-IV] (36 MW) are in Inter-State issue in Tamil Nadu State

Note : In addition to above, one pumped storage project namely Saundatti ($4 \times 252 + 2 \times 126 = 1260$ MW) is under S&I and one pumped storage project namely Sharavathy ($8 \times 250 = 2000$ MW) is under S&I Held Up.

*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, etc.

1 (A). Identified Projects during Reassessment study

Sl.No.	Name of Project	River	I. C. (MW)
1	Mahadayi [Krishnapur]	Mandavi	210
2	Kalinadi Supa [Kalinadi I (Supa)]	Kalinadi	140
3	Kalinadi II (Dandeli) [Kalinadi I (Dandeli II)]	Kalinadi	60
4	Kalinadi (Nagjhari) [Kalinadi I (Nagjhari)]	Kalinadi	855
5	Kodassali [Kalinadi I (Kadassali)]	Kalinadi	95
6	Kadra [Kalinadi I (Kadra)]	Kalinadi	100
7	Kalinadi III [Kalinadi I (Mardi)]	Kalinadi	175
8	Bedthi [Gangavali (Bedti) St.I]	Gangavali	380
9	Gangavali St.II [Gangavali (Sonda) St.II]	Gangavali	105
10	Aghnashini	Aghnashini	370
11	Bennehole [Bannehole]	Bannehole	55
12	Lingnamakki [Linganamakki]	Saravathi	125
13	Sharavathy [Saravathi]	Saravathi	1365
14	Sharavathy Tail Race [Saravathi Tail Race]	Saravathi	157
15	Varahi	Varahi	305
16	Machchattu	Varahi	35
17	Netravathy	Netravathy	60
18	Sirpadi	Netravathy	38
19	Kumaradhari	Kumaradhari	49
20	Barapole I	Barapole	335
21	Jaldurg	Krishna	270
22	Tamankal [Narayanpur]	Krishna	70
23	Almatti	Krishna	160

24	Ghataprabha	Tungabhadra	41
25	Shivapur [Shivpur]	Tungabhadra	26
26	Munirabad	Tungabhadra	41
27	Hampi	Tungabhadra	34
28	T.B. Dam [Tungbhadra RBC]	Tungabhadra	27
29	Bhadra [Tungbhadra Dam PH]	Bhadra	36
30	Krishnarajasagar	Cauvery	55
31	Sivasamudram [Shivasamudram]	Cauvery	44
32	Shimsa [Shimsa PH-I]	Cauvery	31
33	Sivasamudram [Cauvery PH-I]	Cauvery	235
34	Shimsa [Shimsa PH-II]	Shimsa	42
35	Arkavathy [Arkavathi]	Arkavathi	42
36	Mekadatu [Cauvery PH-II]	Cuvery	165
37	Rasi Manal # [Cauvery PH-III]	Cauvery	90
38	Hogenekkal # [Cauvery PH-IV]	Cauvery	36
38	TOTAL		6459

Rasi Manal & Hogenekkal are in Inter-State issue in Tamil Nadu State

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Mahatma Gandhi Jog	Sharavathy	139.2	In Operation
1	Sub Total		139.2	

1 (C). Projects identified below 25 MW capacity in Reassessment Study and being developed above 25 MW

Sl.No.	Name of Project	River	I.C. (MW)	Status	Remarks
1	Gundia		200	Dropped	Gundia - 20 MW
1	Sub Total		200		

2. 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))	Year of commissioning
KPCL									
1	ALMATTI	1	(5X55) +(1X15)	KRISHNA	EFR	BIJAPUR	290	S	2004-2005
2	GERUSOPPA (SHARAVATHY TAIL RACE) [SARAVATHY TAIL RACE]	1	(4X60)	SHARAVATHY	WFR	UTTARA KANNADA	240	R(P)	2001-2002
3	GHAT PRABHA	1	(2X16)	GHATPRABHA	EFR	BELGAUM	32	S	1992
4	MAHATMA GANDHI JOG	1	(4X21.6) +(4X13.2)	SHARAVATHY	WFR	SHIMOGA	139.2	S	1949-1952
5	KADRA [Kalinadi I (Kadra)]	1	(3X50)	KALI	WFR	UTTARA KANNADA	150	S	1997-1999
6	KALINADI (NAGJHARI) [Kalinadi I (Nagjhari)]	1	6x 150	KALI	WFR	UTTARA KANNADA	900	S	1979-1984
7	KALINADI SUPA [Kalinadi I (Supa)]	1	(2X50)	KALI	WFR	UTTARA KANNADA	100	S	1985
8	KODASALI [Kalinadi I (Kadassali)]	1	(3X40)	KALI	WFR	UTTARA KANNADA	120	S	1998-1999
9	LINGNAMAKKI [Linganamakki]	1	(2X27.5)	SHARAVATHY	WFR	SHIMOGA	55	S	1979-1980
10	MUNIRABAD	1	(2X9) +(1X10)	TUNGABHADRA	EFR	KOPPAL	28	S	1962-1965
11	SHARAVATHY [Saravathi]	1	(10X103.5)	SHARAVATHY	WFR	SHIMOGA	1035	S	1965-1977
12	SIVASAMUNDRUM [Shivasamudram]	1	(4X6)+(6X3)	CAUVERY	EFR	MANDYA	42	R(P)	1922-1934
13	VARAHI	1	(4X115)	VARAHI	WFR	UDUPI	460	R(P)	1989-2009
14	BHADRA [Tungbhadra Dam PH]	1	(2x12)+(1x2)	BHADRA	EFR	CHICKMAGALUR	26	S	1965
	TOTAL KPCL	14					3617.2		
APGENCO									
15	T B DAM * [Tungbhadra RBC]	1	(4X9)	TUNGABHADRA		BELLARI	36	S	1957-1964
16	HAMPI *	1	(4X9)	TUNGABHADRA	EFR	BELLARI	36	S	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

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

Sl. No.	Name of Project	Agency	I.C.(MW)	Reason of Return
1	Sivasamudram [Cauvery PH-I]	KPCL	345	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 [Krishnapur]	KPCL	320	Returned due to non-tie up of inputs/clearances, the project involves interstate aspects.
2	Total		665	

Note : In addition to above, two pumped storage projects, namely Sharavathy (8x250 =2000 MW) and Saundatti (4x252+2x126= 1260 MW) are under S&I .

4. H.E. Projects held up due to Inter-State aspects:

Sl. No.	Name of Project	I.C. (MW)	Location (State)	States Involved	Status
1	Cauvery Power Projects- Mekadatu [Cauvery PH-II]	400	Karnataka	Kerala/TN/ Karnataka	<ul style="list-style-type: none"> • Preliminary report of Stage-I was returned in 10/1996. • Sharing of Cauvery water awarded by CWDI. • With the consent of GOTN and GOK, NHPC took up S&I and preparation of DPR. • In the Core Group Meeting taken by secretary (Power) on 27.10.2004, it was agreed by GOK and GOTN that Shivasamudram (Karnataka) and Hogenekkal (T.N.) should be taken up simultaneously in the first phase and remaining two projects viz. Mekadatu and Rasimanal in the next phase. • In the Core Group Meeting taken by Secretary (Power) on 21.06.2006, it was agreed that execution of these four projects through NHPC would be most viable proposition. It was decided that representatives of both the Govts. would take up the matter with their respective Govts. and seek their approval and thereafter necessary agreement will be signed between NHPC and the two State Govts. Consent by both the State Govts. was to be communicated to MOP by 31.07.2006. The State of Karnataka in June, 2007 informed that Shivasamudram and Mekadatu will be executed by them in State sector. • KPCL informed in April, 2009 that the tribunal award is with Supreme Court. • Subsequently, a meeting was held on 08.07.2009 under the chairmanship of Secretary (Power) to discuss the pending issue of development of Hydroelectric Projects in Cauvery Basin. Secretary (Power) expressed that Shivasamudram being a Run of River Project with in the territory of Karnataka, Tamil Nadu should not have any objection to the development of the Project by the State Government. He further opined that there should not be any problem in taking up Shivasamudram Project by the State of Karnataka provided there is joint mechanism for monitoring the water level/releases of water to Tamil Nadu. He suggested that the CWC could act as an observer in this regard and directed that the GOK would provide/share all the technical details of the Project to/with Tamil Nadu. Both the States Government were advised to consult CEA and CWC before finalization of designing of the Project. • As regards other projects located in Tamil Nadu but whose submergence area partly falls in Karnataka, it was suggested the two Governments need to arrive at an arrangement for power sharing.
1	Total	400			

5. Projects dropped due to Basin studies/ Other reasons:

Sl. No.	Name of Project	I.C. (MW)	River	Basin	Remarks
1	Gundia	200	Gundia	WFR	Due to implementation of Yethnabale Drinking water Project in same catchment area, the project is stalled.
2	Bennehole (Bannehole)	55	Bannehole	WFR	Environmental Issue
3	Barapole I	335	Barapole	WFR	Environmental Issue
4	Kalinadi III [Kalinadi I (Mardi)]	300	Kalinadi	WFR	Environmental Issue
5	Bedthi [Gangavali (Bedthi) St.I]	380	Gangavali	WFR	Environmental Issue
6	Aghnashini	600	Aghnashini	WFR	Environmental Issue
6	Total	1870			

6. H. E. Projects yet to be allotted by the State for development:

Sl.No.	Name of Project	River	Type	I.C.(MW)	District
1	Machchattu	Varahi	R	35	Udupi
2	Netravathy	Netravathy	S	60	Dakshina Kannada
3	Sirpadi	Netravathy	R	38	Dakshina Kannada
4	Kumaradhari	Kumaradhari	S	49	Dakshina Kannada
5	Kalinadi II (Dandeli [Kalinadi I (Dandeli II)])	Kalinadi	R	60	Uttara Kannada
6	Gangavali St.II [Gangavali (Sonda) St.II]	Gangavali	S	400	Uttara Kannada
7	Tamankal [Narayanpur]	Krishna	R	70	Raichur
8	Shivapur [Shivpur]	Tungabhadra	R	26	Koppal
9	Krishnarajasagar	Cauvery	S	55	Mandya
10	Shimsa [Shimsa PH-I]	Cauvery	R	31	Mandya
11	Shimsa [Shimsa PH-II]	Shimsha	R	42	Mandya
12	Arkavathy [Arkavathi]	Arkavathi	R	42	Ramanagara
13	Jaldurg	Krishna	R	270	Raichur
13	Total	13 Nos. of Projects		1178	

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

Status of Large Hydro Power Development in Kerala

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		28	3378
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		5	1090
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		2	145
Change in Projects due to merging of projects (identified during reassessment study in 1978-87)		-1	85
Project(s) Identified in this State but developed/being developed in other State(s) #		-1	-80
Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity		-2	-185
Total		31	4433
I	Projects in operation	14	1864.15
II	Projects under active construction	2	100
III	Under S&I	1	800
IV	Projects held up due to Inter-State aspects	4	520
V	Projects dropped due to Basin studies/ Other reasons	4	644
	Projects yet to be allotted by the State for development*	6	338

The project, Cholathipuzha (80 MW) is in Inter-State issue in Tamil Nadu State

*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.

1 (A). Identified Projects during Reassessment study

Sl.No.	Name of Project	River	IC
1	Baraple II	Barapole	85
2	Kuttiyadi, Kuttityadi Ext & Kuttityadi Add. Ext. (Kuttiyadi)	Kuttiyadi	80
3	Chalipuzha	Baypore	50
4	Cholathipuzha #	Baypore	80
5	Pandiyar Punnapuzha Tail Race (Pandiyar Punnapuzha II)	Pandiyar	85
6	Silent Valley	Kundipuzha	130
7	Idukki (Idukki I & II)	Periyar	565
8	Idukki (Iddukki III)	Periyar	130
9	Lower Periyar	Periyar	145
10	Pallivasal (Pallivasal Replacement)	Mudirapuzha	190
11	Sengulam	W. Kallar	55
12	Panniar	Panniar	40
13	Neriamangalam	Mudirapuzha	65
14	Perinjankutty	Perinjankutty	120
15	Manali	Idamlayar	36
16	Kudal	Idamlayar	47
17	Puyanukutty	Puyanukutty	285
18	Idamalayar	Idamalayar	55
19	Sholayar [Sholaiyar]	Sholaiyar	75
20	Kuriarkutty (Kuriakutty)	Kuriakutty	65
21	Poringalkuthu(R.B)	Chalakuddi	65
22	Poringalkuttu (Poringalkuthu(L.B))	Chalakuddi	60
23	Athirappilly (Adirapally)	Chalakuddi	65
24	Sabarigiri	Pamba	410
25	Kakkad	Kakkad	75
26	Lower Sabarigiri	Kakkad	55
27	Twin-Kallar (Twin Kallar Multipurpose)	Achankovil	65
28	Mananthavady (Manthavadi)	Kabini	200
28	Total		3378

This project is in Inter-State issue in Tamil Nadu State

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Kerala Bhavani MPP		150	Inter-State
2	Pambar		40	Inter-State
3	Pallivasal Ext.	Mudirapuzha/Periyar/Baypore	60	Under Active Construction
4	Thottiyar	Thottiyar	40	Under Active Construction
5	Idukki Extension Scheme	Periyar	800	Under S&I
5	Sub Total		1090	

1 (C). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Kuttiyadi	Kuttiyadi	80	Identified	1	Kuttiyadi	Kuttiyadi	75	In Operation
					2	Kuttiyadi Ext.	Kuttiyadi	50	In Operation
					3	Kuttiyadi Add. Ext.	Kuttiyadi	100	In Operation
1	Sub Total		80		3	Sub Total		225	
Net Change in Numbers			2	Increase					
Net Change in Capacity			145	Increase					

1 (D). Change in Projects due to merging of projects (identified during reassessment study in 1978-87)

Before Merging					After Merging				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Idukki I&II	Periyar	565	Identified	1	Idukki	Periyar	780	In Operation
2	Idukki III	Periyar	130	Identified					
2	Sub Total		695		1	Sub Total		780	
Net Change in Numbers			-1	Decrease					
Net Change in Capacity			85	Increase					

1(E) Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity

Sl. No.	Name of Project	State	River	Type	I.C. (MW)	Status
1	Perinjankutty	Kerala	Perinjankutty	S	120	Developed below 25 MW
2	Poringalkuthu(R.B)	Kerala	Chalakuudi	S	65	Developed below 25 MW
2	Total				185	

2. Hydro Electric 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))	Year of commissioning
KSEB								
1	IDAMALAYAR	1	(2X37.5)	IDAMALAYAR	ERNAKULAM	75	S	1987
2	IDUKKI [Idukki I & II + Idukki - III]	1	(6X130)	PERIYAR	IDUKKI	780	S	1976-1986
3	KAKKAD	1	(2X25)	PAMBA	PATHANAMTHITTA	50	R(P)	1999
4	KUTTIYADI [Kuttiyadi]	1	(3X25)	KUTTIYADI	KOZHIKODE	75	S	1972
5	KUTTIYADI EXTN. [Kuttiyadi]	1	(1X50)	KUTTIYADI	KOZHIKODE	50	S	2001
6	KUTTIYADI ADDN EXTN [Kuttiyadi]	1	(2X50)	KUTTIYADI	KOZHIKODE	100	S	2010
7	LOWER PERIYAR	1	(3X60)	PERIYAR	IDUKKI	180	R(P)	1997
8	NERIAMANGLAM	1	(3X17.55)	MUTHIRAPUZHA	IDUKKI	52.65	S	1961-63
9	PALLIVASAL [Pallivasal Replacement]	1	(3X5) + (3X7.5)	MUTHIRAPUZHA	IDUKKI	37.5	S	1948-2001
10	PANNIAR	1	(2X15)	PANNIAR	IDUKKI	30	S	1963-2001
11	PORINGALKUTTU	1	(4X8)	CHALAKUDY	COIMBATORE	32	S	1957-1960
12	SABARIGIRI	1	(6X50)	PAMBA	PATHANAMTHITTA	300	S	1960-1967
13	SENGULAM	1	(4X12)	MUTHIRAPUZHA	IDUKKI	48	S	1954-2001
14	SHOLAYAR [Sholaiyar]	1	(3X18)	SHOLAYAR	COIMBATORE	54	S	1956-1968
14	TOTAL KSEB	14				1864.15		

* All projects are in WFR Basin

3 H.E. Schemes under active Construction:

Sl. No.	Name of Project	Agency	District	River /Sub-Basin/ Basin	I.C. (MW)	Type (R/S/R(P))	Likely Commissioning
1	Pallivasal	KSEB	Idukki	Mudirapuzha/ Baypore Periyar/ WFR	60	R	2023-24 (Jun'23)
2	Thottiyar	KSEB	Idukki	Thottiyar/ Baypore Periyar / WFR	40	R	2022-24 (Jun'23)*
2	Total				100		

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

* 1 unit (10 MW) likely during 2022-23 & 1 unit (30 MW) during 2023-24

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

Sl. No.	Name of Project	Basin/River	I.C. (MW)	Agency	District	Type (R/S/R(P))	Target date of preparation of DPR
1	Idukki Extension Scheme	WFR/ Periyar	800	KSEB	Idukki	S	Dec-23
1	TOTAL		800				

5. Projects dropped due to Basin studies/ Other reasons:

Sl. No.	Name of Project	Agency	District	River / Basin	I.C. (MW)	Type (R/S/R(P))	Status
1	Athirapally [Adirapally]	KSEB	Thrishur	Chalakkudy / WFR	163	R	MoEF&CC informed that validity of EC for the project has approved and advised to process for fresh FC. The project is likely to be dropped due to ecological constraints.
2	Silent Valley			Kundipuzha/ WFR	130		Environmental Issue
3	Puyanukutty			Puyanukutty/ WFR	285		Environmental Issue
4	Kuriarkutty (Kuriakutty)			Kuriakutty/ WFR	66		Environmental Issue
4	Total				644		

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

6. H.E. Projects held up due to Inter-State aspects:

Sl. No.	Name of Project/Installed Capacity	I.C. (MW)	Location (State)	States Involved	Status
1*	Kerala Bhavani (MPP) (3x50= 150 MW)	150	Kerala	Kerala/T.N./Karnataka	<ul style="list-style-type: none"> · DPR with estimated cost of Rs 168.75 crores (1990-91 PL) returned in 01/1992. • Final award of CWDT stated that the Project involves trans-basin diversion of water of Bhavani, therefore it is not possible to allocate water for this project. • Since the tribunal has ruled out trans-basin transfer (from interstate rivers), this project remains a non-starter. • The final award of CWDT has been challenged by Kerala State before the Hon'ble Supreme Court of India.
2*	Mananthvady MPP (Manthavadi) (5x45 =225MW)	225	Kerala	Kerala/T.N./Karnataka	<ul style="list-style-type: none"> · Earlier DPR with estimated cost of Rs 69.17 crores (1980 PL) returned in 07/1980. • Final award of CWDT stated that the Project involves trans-basin diversion of water of Kabini, therefore it is not possible to allocate water for this project. • Since the tribunal has ruled out transbasin transfer (from interstate rivers), this project remains as a non-starter. • The final award of CWDT has been challenged by Kerala State before the Honourable Supreme Court of India.
3	Pandiar Punnapuzha Tail Race [Pandiayar Punnapuzha II]	105	Kerala	TN/Kerala	<ul style="list-style-type: none"> · Earlier DPR with estimated cost of Rs 22.00 crores (12/1972 PL) returned in 07/82 • Project envisages utilisation of tailrace waters of the proposed Pandiar Punnapuzha HEP of Tamil Nadu. • The project would be taken up if GOTN and Kerala come to a mutual agreement. • Inter-state issue is not resolved.
4*	Pambar (40 MW)	40	Kerala	T.N./Kerala/Karnataka	<ul style="list-style-type: none"> · Earlier DPR for 30 MW with estimated cost of Rs.65.46 crores (1989 PL) returned in 03/1990. • The project is also entangled with Cauvery Waters Disputes Tribunal (CWDT). • KSEB revised the Project from earlier proposal of storage Project to run-of-river Project. • Non-Consumptive use of 5.6 TMC was proposed for power generation, which has been allowed by Tribunal subject to agreement with Tamil Nadu for schedule of water release. • DPR is yet to be finalized.
4	Total	520			

(*) Projects located in Cauvery basin.

7. H. E. Projects yet to be allotted by the State for development

Sl. No.	Name of Project	River	Type	Probable I.C.(MW)	District
1	Chalipuzha	Baypore	S	50	Wayanad
2	Manali	Idamlayar	S	36	Idukki
3	Kudal	Idamlayar	S	47	Ernakulam
4	Lower Sabarigiri	Kakkad	S	55	Pathanamthitta
5	Twin-Kallar (Twin Kallar Multipurpose)	Achankovil	S	65	Pathanamthitta
6	Baraple II	Barapole	R	85	Kodagu
6	Total	6 Nos. of Projects		338	

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

Status of Large Hydro Power Development in Tamil Nadu

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		23	1693
Projects identified below 25 MW capacity in Reassessment Study and developed above 25 MW capacity		4	220
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		5	-20
Change in Project due to merging of projects (identified during reassessment study in 1978-87)		-1	354
Projects Identified in other State(s) but developed/being developed in this State #		3	206
Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW		-1	-34
Total		33	2419
I	Projects in operation	26	1778.2
II	Projects held up due to Inter-State aspects	4	690
III	Projects dropped due to Basin studies/ Other reasons	1	33
IV	Projects yet to be allotted by the State for development*	4	132

Rasi Manal [Cauvery PH-III] (90 MW) & Hogenekkal [Cauvery PH-IV] (36 MW) in Karnataka and Cholathipuzha (80 MW) in Kerala are in Inter-State issue in Tamil Nadu State

Note : In addition to above, one pumped storage project, namely Kadamparai (4x100 = 400 MW) is constructed & working in pumping mode, one pumped storage project, namely Kundah Pump Storage (Stage I,II,III&IV) (4x125= 500 MW) is under active construction [likely commissioning by 2024-25 (Dec. 2024)] and two pumped storage projects, Kodayar (4x125= 500 MW) & Sillahalla St.-I (4x250=1000 MW) are under S&I Held up and one project namely Velimalai (200 MW) is under PFR preparation category.

*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 of the projects, etc.

1 (A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C. (MW)
1	Pandiyar Punnapuzha (Pandiyar-Punnapuzha I)	Pandiyar	125
2	Aliyar (Upper Aliyar)	Bharatpuzha	90
3	Periyar (Periyar Lake)	Periyar	145
4	Nirar	Idamalayar	26
5	Sholayar- I [Sholaiyar- I]	Sholaiyar	75
6	Sarkarpathy [Sarkarpathi]	Periyar	33
7	Kodayar I	Kodayar	65
8	Kodayar II	Kodayar	30
9	Paraliyar	Paraliyar	39
10	Mettur Dam (Mettur Dam PH)	Cauvery	32
11	Mettur Tunnel (Mettur Tunnel PH)	Cauvery	100
12	Lower Mettur I, II, III & IV (Lower Mettur)	Cauvery	115
13	Bhavani Kattalai Barrage I, II & III (Bhawani Kattalai)	Cauvery	115
14	Lower Bhavani (Lower Bhawani)	Bhavani	34
15	Lower Moyar	Moyar	33
16	Moyar	Moyar	75
17	Pykara (Pykara (Singara))	Moyar	115
18	Pykara Ultimate (Pykara (Ultimate))	Moyar	60
19	Kundah I (Avalanche Em'ld (Kundah-I))	Kundah	70
20	Kundah II (Kundapallam (Kundah-II))	Kundah	160
21	Kundah III (Pengumbahalla (Kundah-III))	Kundah	95
22	Suruliyar (Surullar)	Suruliar	30
23	Papanasam	Tambraparni	31
23	TOTAL		1693

1 (B). Project identified below 25 MW capacity in Reassessment Study and developed above 25 MW capacity

Sl.No.	Name of Project	River	I.C. (MW)	Status	Remarks
1	Kundah-IV	Bhavani	100	In Operation	Pillur - 25 MW
2	Kundah-V	Bhavani	40	In Operation	Upper Bhavani - 16 MW
3	Kundah-VI (Parson's Valley)	Bhavani	30	In Operation	Parson's Valley - 12 MW
4	Nellithorai		50	Inter-State	Nellithorai - 13 MW
4	Sub Total		220		

1 (C). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Lower Mettur	Cauvery	115	Identified	1	Lower Mettur I	Cauvery	30	In Operation
					2	Lower Mettur II	Cauvery	30	In Operation
					3	Lower Mettur III	Cauvery	30	In Operation
					4	Lower Mettur IV	Cauvery	30	In Operation
2	Bhawani Kattalai	Cauvery	115	Identified	5	Bhavani Kattalai Barrage-I	Cauvery	30	In Operation
					6	Bhavani Kattalai Barrage-II	Cauvery	30	In Operation
					7	Bhavani Kattalai Barrage-III	Cauvery	30	In Operation
2	Sub Total		230		7	Sub Total		210	
Net Change in Numbers			5	Increase					
Net Change in Capacity			-20	Decrease					

1 (D). Change in Projects due to merging of projects (identified during reassessment study in 1978-87)

Before Merging					After Merging				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Hogenekkal (Cauvery PH-IV)	Cauvery	36	Identified in Karnataka	1	Cauvery Power Projects	Cauvery	480	Inter-State in Tamil Nadu
2	Rasimanal (Cauvery PH-III)	Cauvery	90	Identified in Karnataka					
2	Sub Total		126		1	Sub Total		480	
Net Change in Numbers			-1	Decrease					
Net Change in Capacity			354	Increase					

1 (E). Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity

Sl. No.	Name of Project	State	River	Type	I.C. (MW)	Status
1	Lower Bhavani (Lower Bhawani)	Tamil Nadu	Bhavani	S	34	developed below 25 MW
1	Total				34	

2. H.E. Projects in Operation:

S. No.	Utility/ Stations	No. Of stns.	No. of units x Capacity (MW)	River	Basin	District	Capacity (MW)	Type (R/S/R(P))	Year of commissioning
TANGEDCO									
1	ALIYAR [Upper Aliyar]	1	(1X60)	MASONAR Y DAM	WFR	COIMBATORE	60	S	1970
2	BHAVANI KATTALAI BARRAGE-I [Bhawani Kattalai]	1	(2X15)	CAUVERY	EFR	ERODE	30	R(P)	2006
3	BHAVANI KATTALAI BARRAGE-II [Bhawani Kattalai]	1	(2X15)	CAUVERY	EFR	ERODE	30	R(P)	2013
4	BHAVANI KATTALAI BARRAGE-III [Bhawani Kattalai]	1	(2X15)	CAUVERY	EFR	ERODE	30	R(P)	2012
5	KODAYAR-I	1	(1X60)	KODAYAR	WFR	KANYAKUMARI	60	S	1970
6	KODAYAR-II	1	(1X40)	KODAYAR	WFR	KANYAKUMARI	40	S	1971
7	KUNDAH-I [Avalanche Em'ld (Kundah-I)]	1	(3X20)	AVLANCHE STREAM	EFR	NILGRIS	60	S	1960-1964
8	KUNDAH-II [Kundapallam (Kundah- II)]	1	(5X35)	KUNDAH	EFR	NILGRIS	175	S	1960-1965
9	KUNDAH-III [Pungumbahalla (Kundah-III)]	1	(3X60)	PENGUNBA HALLAH	EFR	COIMBATORE	180	S	1965-1978
10	KUNDAH-IV	1	(2X50)	BHAVANI	EFR	COIMBATORE	100	S	1966-1978
11	KUNDAH-V	1	(2X20)	BHAVANI	EFR	NILGRIS	40	S	1964-1988
12	LOWER METTUR-I [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	1988
13	LOWER METTUR-II [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	1988
14	LOWER METTUR-III [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	1987-1988
15	LOWER METTUR-IV [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	1988-1999
16	METTUR DAM [Mettur Dam PH]	1	(4X12.5)	CAUVERY	EFR	SALEM	50	S	1937-1946
17	METTUR TUNNEL [Mettur Tunnel PH]	1	(4X50)	CAUVERY	EFR	SALEM	200	S	1965-1966
18	MOYAR	1	(3X12)	MOYAR	EFR	NILGRIS	36	S	1952-1953
19	PAPANASAM	1	(4X8)	THAMBRAP ARANI	EFR	TIRUNELVELI	32	S	1944-1951
20	PARSON'S VALLEY	1	(1X30)	BHAVANI	EFR	NILGIRIS	30	S	2000
21	PERIYAR [Periyar Lake]	1	(3X42)+ (1X35)	PERIYAR	WFR	IDUKKI	161	S	1958-1965
22	PYKARA [Pykara (Singara)]	1	(3X7)+ (2X13.6)+ (1X11)	Glenmorgan Forebay dam	EFR	NILGRIS	59.2	S	1932-2005
23	PYKARA ULTMATE [Pykara (Ultimate)]	1	(3X50)	PYKARA	EFR	NILGRIS	150	S	2005
24	SARKARPATHY [Sarkarpathi]	1	(1X30)	PARABIKUL AM	WFR	KOZHICODE	30	R(P)	1966
25	SHOLAYAR I [Sholaiyar- I]	1	(2X35)	SHOLAYAR	WFR	COIMBATORE	70	S	1971
26	SURULIYAR [Surullar]	1	(1X35)	ERAVANGA LAR	EFR	TIRUNELVELI	35	S	1978
26	TOTAL TANGEDCO	26					1778.2		

Note : In addition to above, one pumped storage project, namely Kadamparai (4x100 = 400 MW) is constructed & working in pumping mode, one pumped storage project, namely Kundah Pump Storage (Stage I,II,III&IV) (4x125= 500 MW) is under active construction [likely commissioning by 2024-25 (Dec 2024)] and two pumped storage projects, Kodayar (4x125= 500 MW) and Sillahalla St.-I (4x250=1000 MW) are under S&I .

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

3. H.E. Projects held up due to Inter-State aspects:

Sl. No.	Name of Project	I.C. (MW)	Location (Site)	States Involved	Status
1	Nellithorai	50	T.N.	TN/ Kerala	<ul style="list-style-type: none"> Sanctioned by Planning Commission in 1974 at an estimated cost of Rs.10.04 crores. Concurrence not issued by CEA due to objections received from Govt. of Kerala.
2	Cauvery Power Projects [Rasimanal(90 MW) & Hogenekkal (36 MW) (from Karnataka)]	480	T.N.	Kerala/ TN/ Karnataka	<ul style="list-style-type: none"> Returned in 2/1997. In the Core Group Meeting taken by Secretary (Power) on 27.10.2004, it was agreed by GOK and GOTN that Shivasamudram (in Karnataka) and Hogenekkal (in TN) should be taken up simultaneously in the first phase and remaining two projects viz. Mekadatu (in Karnataka) and Rasimanal (in TN) in the next phase. In the Core Group Meeting taken by Secretary (Power) on 21.06.2006, it was agreed that execution of these four projects through NHPC would be most viable proposition. It was decided that representatives of both the Govts. would take up the matter with their respective Govts. and seek their approval and thereafter necessary agreement will be signed between NHPC and the two State Govts. Consent by both the State Govts. was to be communicated to MOP by 31.07.2006. Tripartite agreement between Govt. of Tamil Nadu, Govt. of Karnataka and NHPC was to be signed. However, in June, 2007 the State of Karnataka informed that Shivasamudram and Mekadatu will be executed by Karnataka in State Sector. TNEB informed in April, 2009 that Tamil Nadu has given its concurrence to MOP's draft tripartite agreement and sent it to MOP, GOI on 15.12.2008. Tamil Nadu insists the execution of the projects by neutral agency under Govt. of India. Final award of CWDT is yet to be notified in the Gazette of Govt. of India, as the case has been filed in the Supreme Court of India. Subsequently, a meeting was held on 08.07.2009 under the chairmanship of Secretary (Power) to discuss the pending issue of development of Hydroelectric Projects in Cauvery Basin. Secretary (Power) expressed that Shivasamudram being a Run of River Project with in the territory of Karnataka, Tamil Nadu should not have any objection to the development of the Project by the State Government. He further opined that there should not be any problem in taking up Shivasamudram Project by the State of Karnataka provided there is joint mechanism for monitoring the water level/releases of water to Tamil Nadu. He suggested that the CWC could act as an observer in this regard and directed that the GOK would provide/share all the technical details of the Project to/with Tamil Nadu. Both the States Governments were advised to consult CEA and CWC before finalization of designing of the Project. As regards other projects located in Tamil Nadu but whose submergence area partly falls in Karnataka, it was suggested that the two Governments need to arrive at an arrangement for power sharing.
3	Pandiyar Punnapuzha [Pandiyar-Punnapuzha I]	100	T.N.	TN/ Kerala	<ul style="list-style-type: none"> DPR with estimated cost of Rs 73.90 crores (11/1976 PL) returned in 07/1982. Project is located in TN on West flowing Pandiar Punnapuzha river (Chaliyar river). Concurrence of Govt. of Kerala is required, as per agreement in 1965, for revised project proposal, which is yet to be communicated by Govt. of Kerala. Based on Ministerial level meeting between Kerala and Tamil Nadu on 10.06.2002, modified proposal was evolved by TNEB and has been sent to Govt. of Kerala on 10.04.2007 for its consideration. Concurrence of Govt. of Kerala is yet to be received.
4	Cholatipuzha (from Kerala)	60	T.N.	TN/ Kerala	<ul style="list-style-type: none"> DPR with estimated cost of Rs7.39 crores (1976 PL) returned in 07/1982 As per agreement between Tamil Nadu & Kerala reached in Oct., 1965, cost and benefits from the project located on their border are to be shared equally by the two States. Kerala has not communicated its concurrence to the project investigated by TNEB. This Project will be finalized while finalizing the Project of Pandiar- Punnapuzha with Kerala.
4	Total	690			

4. Projects dropped due to Basin studies/ Other reasons:

Sl. No.	Name of Project	Agency	River / Basin	I.C. (MW)	Status
1	Lower Moyar		Moyar	33	Environmental issue

5. H. E. Projects yet to be allotted by the State for development

Sl. No.	Name of Project	River	Type	I.C.(MW)	District
1	Nirar	Idamalayar	R	26	Coimbatore
2	Paraliyar	Paraliyar	R	39	Kanyakumari
3	Lower Bhavani (Lower Bhavani)	Bhavani	S	34	Erode
4	Lower Moyar	Moyar	S	33	Nilgiris
4	Total	4 Nos. of Projects		132	

Note: R –Run of the River; S– Storage

Status of Large Hydro Power Development in Telangana

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		7	1099
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	240
Total		8	1339
I	Projects in operation	6	800
II	Projects returned to project authorities	1	320
III	Project yet to be allotted by the State for development*	1	250

Note : In addition to above, two pumped storage projects, namely Nagarjuna Sagar (7x100.80 = 705.60 MW) and Srisailem LBPH (6x150= 900 MW) are constructed & working in pumping mode.

*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 etc.

1 (A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C. (MW)
1	Pochampad	Godavari	47
2	Singareddi	Godavari	250
3	Dummugudem (Dummagudem)	Godavari	360
4	Pulichintala	Krishna	180
5	Nagarjunasagar LBC	Krishna	42
6	Nagarjunasagar (Nagarjunasagar Dam PH)	Krishna	115
7	Priyadarshini Jurala (Priyadarshini)	Krishna	105
7	TOTAL		1099

Inchampalli is under Inter-State issue in the State of Andhra Pradesh for 975 MW.

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Lower Jurala	Krishna	240	In Operation
1	Sub Total		240	

2. H.E. Projects in Operation:

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

* All projects are in EFR Basin

Note : In addition to above, two pumped storage projects, namely Nagarjuna Sagar (7x100.80 = 705.60 MW) and Srisailem LBPH (6x150= 900 MW) are constructed & working in pumping mode.

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

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

Sl. No.	Name of Project	I.C. (MW)	Agency	Month of Return	Reason for Return
1	Dummugudem (Dummagudem)	320	APGENCO	Mar-06	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			

4. H. E. Projects yet to be allotted by the State for development

Sl. No.	Name of Project	River	Type	I.C. (MW)	District
1	Singareddi	Godavari	R	250	Khammam
1	Total	1 No. of Project		250	

Note: R –Run of the River

Status of Large Hydro Power Development in Bihar

	Nos.	I.C. (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)	1	40
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)	1	130.1
Project identified above 25 MW capacity in Reassessment Study and developed below 25 MW capacity	-1	-40
Total	1	130.1
Projects Returned	1	130.1
Multi Purpose projects	1	150

Note: Identified project namely East Gandak Canal has been developed with installed capacity below 25 MW. In addition to above, two pumped storage projects namely Sinafdar (3 x 115=345 MW) and Panchgotia (3 x 75=225 MW) are under PFR prepared category

1 (A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C. (MW)
1	Eastern Gandak Canal	Gandak	40
TOTAL		40	

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Dagmara	Kosi	130.1	Returned
1	Sub Total		130.1	

1 (C). Project identified above 25 MW capacity in Reassessment Study and developed below 25 MW capacity

Sl. No.	Naome of Project	State	River	Type	I.C. (MW)	Status
1	Eastern Gandak Canal	Bihar	Gandal	R	40	Developed below 25 MW
1	Total				40	

2. Hydroelectric Projects in operation in Bihar (above 25 MW):

At present, no hydroelectric project (above 25 MW) is under operation in Bihar. Four H.E. Projects having installed capacity of 44.9MW, consisting of Kosi (20MW), Sone Western Canal (6.6MW), Sone Eastern Canal (3.3MW) and Eastern Gandak (15MW), are in operation in Bihar which are all below 25MW capacity each.

3. Projects under Construction:

At present no hydro scheme is under construction in Bihar.

4. Projects Returned:

Sl. No.	Name of Scheme	Agency	I.C. (MW)	Month of Return
1	Dagmara	NHPC	130.1	Jan-22
	Total		130.1	

5. Multi purpose projects

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Indrapuri Reservoir Scheme (Khadwan)	Sone	S	150
1	Total			150

Status of Large Hydro Power Development in Jharkhand

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		8	582
Project identified below 25 MW capacity in Reassessment Study and developed above 25 MW capacity		2	130
Project identified above 25 MW capacity in Reassessment Study and developed below 25 MW capacity		-1	-30
Projects Identified in this State but developed/being developed in other State(s) #		-1	-60
Total		8	622
I	Projects in operation	3	210
II	Projects dropped due to Basin studies/ Other reasons	1	710
III	Projects yet to be allotted by the State for development*	3	147

Maithon is in operation in West Bengal State

*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 schemes, addition/deletion of the schemes, etc.

1 (A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C. (MW)
1	Panchet (Panchet Hill)	Damodar	40
2	Maithon #	Damodar	60
3	Subernrekha MPP ##	Subernrekha	30
4	Koel Karo (Koel Karo St-I ### (Lumpungkhel PH))	N.Koel	145
5	Serengada	N.Koel	37
6	Sankh-II (Upper Sankh St-II)	Sankh	55
7	Lower Sankh	Sankh	55
8	Indrapuri (Khadwan)	Sone	160
8	TOTAL		582

Maithon is in operation in West Bengal State

Subernrekha MPP has been developed below 25 MW.

Koel Karo H.E. Project (4x172.5 + 1x20 = 710 MW), located in Ranchi, Gumla & Singhbhum Districts of Jharkhand (in the erstwhile unified State of Bihar), envisages utilization of waters of the South Koel and North Karo rivers. Koel Karo H.E. Project was entrusted to NHPC in August 1980 for execution under central sector. The project was sanctioned by Govt. of India as a NHPC project in June 1981 at an estimated cost of Rs. 444.67 crores (gross) including cost of associated transmission line and interest during construction (IDC).

Ministry of Power vide their letter dated 30-09-2005 informed the closure of project due to non-finalization of power purchase agreement.

1 (B). Change in Projects which were identified upto 25 MW and being developed above 25 MW

Sl.No.	Name of Project	River	I.C. (MW)	Status	Remarks
1	Subernarekha-I	Subernarekha	65	In Operation	Subernarekha St.I - 24 MW
2	Subernarekha-II	Subernarekha	65	In Operation	Subernarekha St.II - 12 MW
2	Sub Total		130		

1 (C). Project identified above 25 MW capacity in Reassessment Study and developed below 25 MW capacity

Sl. No.	Naome of Project	State	River	Type	I.C. (MW)	Status
1	Subernarekha MPP	Jharkhand	Subernarekha	S	30	Developed below 25 MW
1	Total				30	

2. 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))	YEAR OF COMMISSIONING
DVC								
1	PANCHET	1	(2X40)	DAMODAR	DHANBAD	80	S	1990
SUB-TOTAL DVC		1				80		
JUUNL								
1	SUBERNREKHA -I	1	(1X65)	SUBERNAR EKHA	RANCHI	65	S	1977
2	SUBERNREKHA -II	1	(1X65)	SUBERNAR EKHA	RANCHI	65	R(P)	1980
TOTAL JUUNL		2				130		
3	TOTAL JHARKHAND	3				210		

* Panchet is in Ganga and Subernrekha-I & II are in CIR Basin.

Note : In addition to above, one pumped storage project, namely Panchet (1x40 = 40 MW) was constructed but not working in pumping mode as tail pool dam was not constructed and as per meeting held on 16th August , 2021 it was decided to remove the project from CEA's list of Pumped storage project .

3. Projects dropped due to Basin studies/ Other reasons:

Sl. No.	Name of Project	River	Type	I.C. (MW)	Remarks
1	Koel Karo	N. Koel & S. Karto	S	710	*
1	Total			710	

* Koel Karo H.E. Project (4x172.5 + 1x20 = 710 MW), located in Ranchi, Gumla & Singhbhum Districts of Jharkhand (in the erstwhile unified State of Bihar), envisages utilization of waters of the South Koel and North Karo rivers. Koel Karo H.E. Project was entrusted to NHPC in August 1980 for execution under central sector. The project was sanctioned by Govt. of India as a NHPC project in June 1981 at an estimated cost of Rs. 444.67 crores (gross) including cost of associated transmission line and interest during construction (IDC). Ministry of Power vide their letter dated 30-09-2005 informed the closure of project due to non-finalization of power purchase agreement.

4. H. E. Projects yet to be allotted by the State for development

Sl. No.	Name of Project	River	Type	I.C. (MW)	District
1	Serengada	N.Koel	R	37	West Singhbhum
2	Sankh-II (Upper Sankh St-II)	Sankh	R	55	Gumla
3	Lower Sankh	Sankh	S	55	Simdega
3	Total	3 Nos. of Schemes		147	

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

Status of Large Hydro Power Development in Odisha

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		13	2981
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		2	128
Projects Identified in other State(s) but developed/being developed in this State #		1	205
Total		16	3314
I	Projects in operation	7	2154.55
II	Projects allotted by States for development		
	(i) Projects on which S&I held up	2	128
	(ii) Projects held up due to Inter-State aspects	1	320
	(iii) Projects dropped due to Basin studies/ Other reasons	1	287
III	H. E. Projects yet to be allotted by the State for development*	5	881

The Project, Machkund was identified in Andhra Pradesh (205 MW) but has been in operation in Odisha State for 114.75 MW

Note : In addition to above, one pumped storage namely Upper Indravati (4x150 =600 MW) is under S&I and two pumped storage projects, namely , Upper Kolab (2x160 =320 MW) and Balimela (2x250= 500 MW) are under S&I Held Up

*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 of the projects, etc.

1 (A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	IC
1	Bhimkund	Baitarni	29
2	Baljori	Baitarni	230
3	Lodani	Brahmani	42
4	Rengali	Brahmani	135
5	Naraj	Mahanadi	215
6	Tikkarpara	Mahanadi	205
7	Sindol [Hirakud St-III]	Mahanadi	175
8	Hirakud (Chiplima) [Hirakud St-II]	Mahanadi	155
9	Hirakud (Burla) [Hirakud St-I]	Mahanadi	150
10	Upper Indravati	Indravati	585
11	Upper Kolab	Sabari	280
12	Lower Kolab	Sabari	375
13	Balimela	Balimela	405
13	Total		2981

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Kharag	Kharag	63	Held Up
2	Salki	Salki	65	Held Up
2	Sub Total		128	

2. 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))	YEAR OF COMMISSIONING
OHPC								
1	BALIMELA	1	(6X60)+ (2X75)	SILERU	MALKANGIRI	510	S	1973-1977, 2008
2	HIRAKUD (BURLA) [HIRAKUD ST- I]	1	(2X43.65)+ (1X37.5)+(2X49.5)+(2X32)	MAHANADI	SAMBALPUR	287.8	S	1956-1990
3	HIRAKUD (CHIPLIMA) [HIRAKUD ST- II]	1	(3X24)	MAHANADI	SAMBALPUR	72	R(P)	1962-1964
4	RENGALI	1	(5X50)	BRAHMANI	ANGUL	250	S	1985-1992
5	UPPER INDRAVATI	1	(4X150)	INDRAVATI	KALAHANDI	600	S	1999-2001
6	UPPER KOLAB	1	(4X80)	KOLAB	KORAPUT	320	S	1988-1993
	TOTAL OHPC	6				2039.8		
APGENCO								
1	MACHKUND	1	(3X17)+ (3X21.25)	MACHKUND	KORAPUT	114.75	S	1959
	SUB-TOTAL APGENCO	1				114.75		
7	TOTAL ODISHA	7				2154.55		

Note: Hirakud (Burla & Chiplima) 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

3. H.E. Projects on which Survey & Investigation held up:

Sl. No.	Name of Project	Basin/River	I.C. (MW)	Agency
1	Salki	Salki	65	OHPCL
2	Kharag	Kharag	63	OHPCL
2	Total		128	

Note : In addition to above, three pumped storage projects, namely Upper Indravati (4x150 =600 MW), Upper Kolab (2x160 =320 MW) and Balimela (2x250= 500 MW) are under S&I

4. H.E. Projects involving Inter-State aspects:

Sl. No.	Name of Project	I.C. (MW)	Location (State)	States Involved	Status
1	Sindol [HIRAKUD ST- III] 320 MW= (5x20+5x20+6x20)	320	Odisha	MP/Chhatisgarh/ Bihar/ Jharkhand/ Odisha / Maharashtra	DPR with estimated cost of Rs.2246.14 crores (1994 PL) returned in 07/96 due to non-resolution of interstate aspect. The consent of the upstream States viz. Jharkhand, Bihar, M.P, Chhatisgarh and Maharashtra is not available.DPR is being revised by reducing Installed Capacity. Revised DPR yet to be submitted to CEA. Revised hydrology of Sindol-I for 100 MW has been submitted to CWC for clearance.
1	Total	320			

5. Projects dropped due to Basin studies/ Other reasons:

Sl.No.	Name of Project	River	Type	I.C. (MW)	Remarks
1	Naraj	Mahanadi	S	287	Environmental Issue
1	Total	1 No. of Project		287	

6. H. E. Projects yet to be allotted by the State for development

Sl.No.	Name of Project	River	Type	I.C. (MW)	District
1	Bhimkund	Baitarni	S	29	Keonjhar
2	Baljori	Baitarni	S	230	Keonjhar
3	Lodani	Brahmani	S	42	Sundergarh
4	Tikkarpara	Mahanadi	S	205	Angul
5	Lower Kolab	Kolab (Sabri)	S	375	Koraput
5	Total	5 Nos. of Projects		881	

Note: S- Storage

Status of Large Hydro Power Development in Sikkim

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		24	4248
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		9	1132
Total		33	5380
I	Projects in operation	8	2282
II A	Projects under active construction	2	620
II B	Projects on which construction is held up	3	417
III	Projects allotted by States for development		
	(i) Projects concurred by CEA and yet to be taken up for construction	1	520
	(ii) Projects allotted for development on which S&I is held up/ yet to be taken up	2	92
IV	Projects dropped due to Basin studies/ Other reasons	1	96
V	Projects yet to be allotted by the State for development*	16	1914

*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 of the projects, etc.

1 (A). Identified Projects during Reassessment study:				
Sl.No.	Name of Project	River	Type	IC
1	Kalep	Tista	R	41
2	Talem	Tista	R	65
3	Jedang	Lhonak	R	185
4	Teesta I (Zema)	Tista	R	125
5	Serum	Sebokung	R	50
6	Lachung	Lachung	R	30
7	Ringpi	Ringpi	R	160
8	Lingza	Ringpi	R	160
9	Rukel	Tolung	R	90
10	Rangyong	Tolung	R	175
11	Dikchu	Dikchu	R	90
12	Chhota Pathing	Rongpo	R	55
13	Rongnichu (Rongni Storage)	Rongni	R	95
14	Mana	G.Ranjit	R	37
15	Lethang (Yoksam)	Rathong	R	44
16	Mamium	G.Ranjit	R	175
17	Gompa	G.Ranjit	R	46
18	Rangit-III (Ligship)	G.Ranjit	R	115
19	Teesta St.II (Chunthang)	Tista	R	830
20	Teesta-III (Singhik)	Tista	R	685
21	Panan	Tolung	R	230
22	Teesta - IV (Mangan)	Tista	R	445
23	Teesta-V (Samdong)	Tista	R	280
24	Lower Lagyap	Rongpi	R	40
24	Total			4248

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
Sikkim				
1	Kalez Khola	Kalez Khoa	52	Held Up
2	Suntaleyta	Suntaleyta	40	Held Up
3	Chujachen	Rongli & Rangpo	110	In Operation
4	Jorethang Loop	Rangit	96	In Operation
5	Tashiding	Rathang Chu	97	In Operation
6	Bhasmey	Rangpo/Teesta	51	Construction is held up
7	Rangit-II	Greater Rangit/Teesta	66	Construction is held up
8	Rangit-IV	Rangit/Teesta	120	Under Active Construction
9	Teesta St.VI	Teesta	500	Under Active Construction
9	Sub Total		1132	

2. 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))	YEAR OF COMMISSIONING
NHPC								
1	RANGIT(Ligship)	1	(3X20)	RANGIT	GANGTOK	60	R(P)	2000
2	TEESTA-V (Samdong)	1	(3X170)	TEESTA	EAST SIKKIM	510	R(P)	2008
SUB-TOTAL NHPC		2				570		
STATE								
TEESTA URJA LTD. (TUL)								
3	TEESTA-III (Singhik)	1	(6X200)	TEESTA	NORTH SIKKIM	1200	R(P)	2017
SUB-TOTAL TUL		1				1200		
PRIVATE								
GIPL (GATI INFRA PRIVATE LTD.)								
4	CHUZACHEN	1	(2*55)	RONGLI & RANGPO	EAST SIKKIM	110	R(P)	2013
SNEHA KINETIC POWER PROJECTS PVT LTD (SKPPPL)								
5	DIKCHU	1	(2*48)		EAST & NORTH SIKKIM	96	R(P)	2017
SHIGA ENERGY PVT LTD (SEPL)								
6	TASHIDING	1	(2*48.50)	RATHANG CHU		97	R(P)	2017
DANS ENERGY PVT LTD. (DEPL)								
7	JORETHANG LOOP	1	(2*48)	RANGIT	SOUTH /WEST	96	R(P)	2015
Madhya Bharat Pvt Company (MBPC)								
8	RONGNICHU	1	2*56.5	Rongnichu/ Teesta/Brahmaputra	EAST SIKKIM	113	R	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

3A. H.E. Projects under active Construction:

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River/ Basin	Type (R/S/R(P))	Likely Commissioning
1	Teesta St. VI	NHPC	South Sikkim	500	Teesta/	R	2025-26 (July'25)
					Brahmaputra		
2	Rangit-IV	NHPC	West Sikkim	120	Rangit/ Teesta/ Brahmaputra	R	2024-25 (Aug'24)
2	Total			620			

3B. H.E. Projects on which Construction is held up:

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River/ Basin	Type (R/S/R(P))	Status & Likely Commissioning
1	Bhasmey	Gati Infrastructure	East Sikkim	51	Rangpo/ Teesta	R	Works are stalled since Sept., 2016 due to funds constraints with developer. 2027-28*
					Brahmaputra		
2	Rangit-II	Sikkim Hydro	West Sikkim	66	Greater Rangit/ Teesta	R	Works are stalled since December, 2017 due to funds constraints with developer. Project is in NCLT since 30.07.2020. 2027-28*
					Brahmaputra		
3	Panan	Himagiri	North Sikkim	300	Rangyongchu/ Teesta	R	Construction of bridge on Mantham lake for accessibility of site is now being started. The works are likely to start soon after accessibility to Dam site is achieved. 2028-29 *
					Brahmaputra		
3	Total			417			

* Subject to re-start of work in immediate future

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

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

Sl. No	Name of Project	Agency	District	River/ Basin*	L.C. (MW)	District	Date of CEA Concurrence	Type (R/S/R(P))	Status
1	Teesta St-IV (Mangan)	NHPC	North Sikkim	Teesta/ Brahmaputra	520		13.05.10	R(P)	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 Sh. Prem Singh Tamang, 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.
 • NHPC vide letter dated 25.5.2021 has requested DC (North), Sikkim for completing the process under FRA, 2006 and for persuasion of early publication of Notice under section 11 (1) RFCTLARR act, 2013
 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.

5. H.E. Projects on which Survey & Investigation held up:

Sl. No.	Name of Project	Basin/River	Agency	Original L.C. (MW)	Date of MOA	District	Remarks
1	Kalez khola	Kalez khola/ Rangit	CWC	52	12.2.2007	West Sikkim	Due to objection raised by local people against Topographical Survey.
2	Suntaleytar	Rangpochu	Hindustan Electric Power Ltd.	40	LOI date 23.02.12	East Sikkim	S&I to be taken up after finalization of MOA.
2		Total		92			

6. Projects dropped due to Basin studies/ Other reasons:

Sl. No.	Name of Project	Agency	L.C. (MW)	Type (R/S/R(P))	Remarks
1	Lethang (Yoksam)	KHCHPL	96	R	DPR was not accepted for examination due to lacks of barrage v/s dam design, review of I.C. spillway capacity etc. The Government of Sikkim ordered the closure of Lethang HEP being undertaken in Yuksom, Tashiding constituency in West Sikkim in public interest.
1		Total	96		

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

7. H.E. Projects yet to be allotted by the State for development:

Sl.No.	Name of Project	River	Type (R/S/R(P))	IC	District
1	Kalep	Tista	R	41	North Sikkim
2	Talem	Tista	R	65	North Sikkim
3	Jedang	Lhonak	R	185	North Sikkim
4	Teesta-I (Zema)	Tista	R	125	North Sikkim
5	Serum	Sebokung	R	50	North Sikkim
6	Lachung	Lachung	R	30	North Sikkim
7	Ringpi	Ringpi	R	160	North Sikkim
8	Lingza	Ringpi	R	160	North Sikkim
9	Rukel	Tolung	R	90	North Sikkim
10	Rangyong	Tolung	R	175	North Sikkim
11	Chhota Pathing	Rongpo	R	55	East Sikkim
12	Mana	G.Ranjit	R	37	South Sikkim
13	Namlum	G.Ranjit	R	175	North Sikkim
14	Gompa	G.Ranjit	R	46	South Sikkim
15	Lower Lagyap	Rongpi	R	40	East Sikkim
16	Teesta St-II	Teesta	R	480	North Sikkim
16	Total			1914	

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

Status of Large Hydro Power Development in West Bengal

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		6	2829
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		3	293
Projects Identified in other State(s) but developed/being developed in this State #		1	60
Total		10	3182
I	Projects in operation	5	441.2
II	Projects under active construction	1	120
III	Projects under S&I	1	90
IV	Projects on which S&I held up	1	71
V	Projects yet to be allotted by the State for development*	2	103

Maithon was identified in Jharkhand (60 MW) but is in operation in West Bengal State (63.2 MW)

Note : In addition to above, one pumped storage project, namely Purulia PSS (4x225 = 900 MW) is constructed & working in pumping mode while one project, namely Turga PSS (4x250= 1000 MW) is concurred by CEA and one project Bandhu (900 MW) is under PFR preparation category.

*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 of projects, etc.

1 (A). Identified Projects during Reassessment study

Sl.No.	Name of Project	River	I. C. (MW)
1	Balason	Balason	33
2	Teesta Low Dam-IV (Teesta High Dam)	Teesta	2505
3	Rammam-I	Rammam	70
4	Rammam-II	Rammam	85
5	Rammam-III	Rammam	100
6	Jaldhaka (Jaldhaka-I)	Jaldhaka	36
6	TOTAL		2829

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	TLDP I&II (Teesta Low Dam I&II)	Teesta/Badi (Great Rangit)	71	Held Up
2	Teesta Low Dam -III	Teesta	132	In Operation
3	Teesta Intermediate	Teesta	90	S&I
3	Sub Total		293	

2. H.E. Projects in Operation:

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

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

Note : In addition to above, one pumped storage project, namely Purulia PSS (4x225 = 900 MW) is constructed & working in pumping mode while one project, namely Turga PSS (4x250= 1000 MW) is concurred by CEA.

3. H.E. Projects under active Construction:

Sl. No.	Name of Project	Agency	District	River / Basin	I. C. (MW)	Type (R/S/R(P))	Likely Commissioning
1	Rammam-III	NTPC	Darjeeling	Rammam/ Rangit/ Teesta /Brahmaputra	120	R	2025-26 (July'25)
1					120		

4 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))	Date of MOA	Target date of Preparation of DPR
1	Teesta Intermediate	Teesta	WBSEDCL	90	Darjeeling	ROR		03/24
1				90				

5. H.E Projects on which Survey & Investigation held up:

Sl.No.	Name of Project	Basin /River	Agency	I.C. (MW)	Date of MOA	Remarks
1	TLDP-I&II	Teesta/Badi (Great Rangit)	NHPC	71	30.07.15	S&I held up due to withdrawal of consent for the project by Govt. of Sikkim on 30.01.2017. The project handed over to WBSEDCL, Govt. of West Bengal due to Non-availability of consent from Govt. of Sikkim and also due to commercial unviability. Project Concept note with revised capacity of 71 MW with an estimated cost of Rs. 800 Cr. prepared by WBSEDCL.
1	Total			71		

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

6. H. E. Projects yet to be allotted by the State for development:

Sl.No.	Name of Project	River	Type	I.C.(MW)	District
1	Balason	Balason	R	33	Darjeeling
2	Rammam-I	Rammam	R	70	Darjeeling
2	Total	2 Projects		103	

Note: R –Run of the River

Status of Large Hydro Power Development in Arunachal Pradesh

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		87	50064
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		45	10889
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		7	-55.5
Change in Projects due to merging of projects (identified during reassessment study in 1978-87)		-2	-2612
Total		137	58286
I	Projects in operation	3	1115
II	Projects under active construction	1	2000
III	Projects allotted by States for development		
	(i) Projects concurred by CEA and yet to be taken up for construction	13	15858
	(ii) Projects returned to project authorities	13	5323
	(iii) Projects under S&I	4	12600
	(iv) Projects allotted for development on which S&I is held up/ yet to be taken up	31	8276
IV	Projects dropped due to basin studies/other reasons	21	4778
V	Projects stuck due to Inter-State/ Other Issues	4	1940
VI	Projects yet to be allotted by the State for development*	45	6411.5

*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.

1 (A). Identified Projects during Reassessment study

S.No.	Name	River	IC
1	Hutong	Luhit	950
2	Gimliang	Dau	31
3	Raigan	Delai	32
4	Tidding-I	Tiding	31
5	Kalai	Luhit	2550
6	Demwe	Luhit	3765
7	Etalin	Dibang	3045
8	Emra-II	Emra	870
9	Amulin	Matun	235
10	Emini	Matun	295
11	Agoline	Dibang	235
12	Mulinye	Tangon	335
13	Emra-I	Emra	275
14	Tato-II	Siyom	360
15	Naying	Siyom	495
16	Passighat	Dihang	14685
17	Mihundon	Dibang	145
18	Attunli	Angon	175
19	Elango	Ahi	180
20	Yangsang	Yangsang	70
21	Rigong	Rigong	130
22	Mirak	Sigong	160
23	Minning	Sigong	195
24	Pauk	Yarjap	50
25	Heo	Yarjap	90
26	Jarong	Siyom	85
27	Hirong	Siyom	180
28	Tato-I	Yarjap	80
29	Gameng	Sike	37
30	Jaru	Yamne	60
31	Yapin	Yamne	95
32	Pengging	Yamne	60
33	Sesseri	Sesseri	55
34	Dibang Stor.	Dibang	2355
35	Oju-I	Subansiri	1925
36	Oju-II	Subansiri	2580
37	Niare	Subansiri	1405
38	Naba	Subansiri	1290
39	Hegio	Kurung	250
40	Kurung Dam-I	Kurung	200
41	Kurung Dam-II	Kurung	115
42	Tammu	Siu	55

43	Milli	Kurung	75
44	Sape	Kurung	38
45	Chomi	Kurung	80
46	Chela	Kurung	75
47	Nyepin	Payam	32
48	Hiya	Payam	41
49	Tamen	Kamala	175
50	Par	Dikrong	65
51	Dardu	Dikrong	60
52	Yazali Storage	Ranga	95
53	Dudmukh Storage	Dikrong	170
54	Subansiri Dam	Subansiri	4520
55	Tago-I	Yarjap	55
56	Yazali Div.II	Ranga	415
57	Bichom-II	Bichom	205
58	Bhareli Lift Dam-I	Kameng	240
59	Bhareli Lift Dam-II	Kameng	330
60	Tenga	Tenga	275
61	Kameng Dam	Kameng	280
62	Kimi	Bichom	535
63	Chanda	Kameng	110
64	Badao	Kameng	120
65	Rebby	Kameng	30
66	Para	Kameng	55
67	Talong	Kameng	150
68	Satuk	Pachuk	47
69	Kapak Leyak	Pachuk	195
70	Lachung	Pachi	41
71	Phanchung	Pachi	90
72	Utung	Bichom	110
73	Nazong	Bichom	65
74	Dibbin	Bichom	95
75	Khuitam	Digen	29
76	But	Digen	26
77	Mathithing	Digen	40
78	Bichom Storage-I	Bichom	190
79	Pichang	Kuru	31
80	Tarang Warang	Pacha	65
81	Sepla	Pacha	46
82	Pasar	Pasar	32
83	Pakke	Pakke	120
84	Seba	Pakke	105
85	Papu	Papu	160
86	Yangman Stor.	Burhi Dihing	60
87	Tipang	Tirap	80
87	Sub Total		50064

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Nafra	Bichom	120	Concurred
2	Nyamjang Chhu	Nyamjang Chhu	780	Concurred
3	Talonga Londa	Kameng	225	Concurred
4	Tawang-I	Tawang Chu	600	Concurred
5	Tawang-II	Tawang Chu	800	Concurred
6	Hirit Korong	Siang	42	Dropped
7	Sipit Upper	Siang	45	Dropped
8	Siri Korong	Siang	58	Dropped
9	Soying Korong	Siang	48	Dropped
10	Thingbu Chu	Tawang	60	Dropped
11	Tsa chu-I	Tawang	43	Dropped
12	Yemsing	Siang	38	Dropped
13	Anjaw	Anjaaw	270	Held Up
14	Dengser	Dengser	552	Held Up
15	Dinchang	Dinchanag	252	Held Up
16	Ithun I	Ithun-I	84	Held Up
17	Nalo	Nalo	635	Held Up
18	New Melling	Magochu	90	Held Up
19	Rho	Rho	93	Held Up
20	Subansiri Upper		1800	Held Up
21	Yamne-1	Yamne-1	111	Held Up
22	Pare	Brahmaputra	110	In Operation
23	Kangtangshiri		80	Returned
24	Mago Chu		96	Returned
25	Nyukcharong Chu		96	Returned
26	Pemashelphu		90	Returned
27	Ranganadi St-II		130	Returned
28	Subansiri Middle (Kamla)		1800	Returned
29	Tagurshit		74	Returned
30	Yamne St-II		84	Returned
31	Marijingla		39	Held Up
32	Marijingla Lower		37	Held Up
33	Pachuk-II	Kameng	61	Held Up
34	Panyor	Dikrong	80	Held Up
35	Rapum	Siang	66	Held Up
36	Rego	Siang	97	Held Up
37	Sippi	Siang	96	Held Up
38	Tidding-II	Lohit	75	Held Up
39	Tsa Chu -II	Tawang	67	Held Up
40	Tsa chu-I Lower	Tawang	77	Held Up
41	Kameng	Bichom/ Kameng	600	In Operation
42	Gongri#		144	Yet to be
43	Jameri		60	Yet to be
44	Meyong		38	Yet to be
45	Digin	Sangti	46	Yet to be
45	Sub Total		10889	

State Govt. terminated the agreement with developer for execution of Gongri project from under construction stage.

1 (C). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Passighat	Dibang	14685	Identified	1	Upper Siang Project	Siang	11200	MPP Project
					2	Siyom (Middle Siang)	Siang	1000	Other issues
					3	Lower Siang	Siang	2700	Concurred
2	Hutong	Luhit	950	Identified	4	Hutong Stage I		750	Dropped
					5	Hutong-II		1200	Returned
3	Kalai	Luhit	2550	Identified	6	Kalai I	Lohit	1352	Returned
					7	Kalai II	Lohit	1200	Concurred
4	Demwe	Luhit	3765	Identified	8	Demwe Upper St-I	Lohit	270	S&I
					9	Demwe Upper St-II	Lohit	270	Yet to be
					10	Demwe Upper St-III	Lohit	202.5	Yet to be
					11	Demwe Lower	Lohit	1750	Concurred
4	Sub Total		21950		11			21894.5	
	Net Change in Numbers		7	Increase					
	Net Change in Capacity		-55.5	Decrease					

1 (D). Change in Projects due to merging of projects (identified during reassessment study in 1978-87)

Before Merging					After Merging				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Oju-I	Subansiri	1925	Identified	1	Oju	Subansiri	1878	Held Up
2	Oju-II	Subansiri	2580	Identified					
3	Kurung Dam-I	Kurung	200	Identified	2	Kurung	Kurung	330	Held Up
4	Kurung Dam-II	Kurung	115	Identified					
4	Sub Total		4820		2	Sub Total		2208	
	Net Change in Numbers		-2	Decrease					
	Net Change in Capacity		-2612	Decrease					

2. H.E. Projects in Operation:

S. No.	Name of Project	No. Of units	No. of units x capacity (MW)	River	District	Capacity (MW)	Type (R/S/R(P))	Year of commissioning
NEEPCO								
1	RANGANADI [Yazali Div.-II]	3	(3X135)	RANGANADI	LOWER SUBANSIRI	405	R(P)	2002
2	PARE	2	(2X55)	BRAHAMPUTRA		110	R (P)	2018
3	Kameng	4	(4x150)	Bichom & Tenga / Kameng	West Kameng	600	R (P)	2020-21
3	Total	9				1115		

Note: All projects are in Brahmaputra Basin

3. H.E. Projects Under Active Construction:

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River	Type (R/S/R(P))	Likely Commissioning
1	Subansiri Lower [Subansiri Dam]	NHPC	L.Subansiri/ Dhemajji	2000	Subansiri	R(P)	2023-24 (Mar'24)
1	Total			2000			

Note: All projects are in Brahmaputra Basin

*** 2 units (500 MW) likely during 2022-23 & 6 units (1500 MW) during 2023-24**

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

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

Sl No.	Name of Project	Agency	District	River	I.C. (MW)	Date of CEA Concurrence	Type (R/S/R(P))	Status
1	Lower Siang	JAVL	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	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	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	Lohit	Lohit	1750	20.11.09	R(P)	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. .####
5	Hirong	JAPL	West Siang	Siang	500	10.04.2013	R	EC & FC yet to be obtained by developer. EIA/EMP report being revised as per Siang BSR. FC-I under process at state level. However, as per MoEF&CC, matter of FC is closed vide letter dated 02.12.2015. #####
6	Talonga Londa	GMR	East Kameng	Kameng	225	16.08.2013	R(P)	EC accorded on 07.08.2015. FC-I & FC-II yet to be obtained. #####
7	Etalin	EHEPCL	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	NDSCL	West Siang	Siang	1000	11.09.2013	R	EC & FC yet to be obtained by developer. \$
9	Kalai -II	Kalai PPL	Anjaw	Lohit	1200	27.3.2015	R(P)	EC accorded 20.05.2015. Final order will be issued after obtaining FC-I. FC-I and FC-II yet to be obtained. Land acquisition under process. Validity of Concurrence to the project expired on 27.03.2018. MOP vide letter dated 22.12.2021 indicated Kalai-II HEP to be pursued by THDC
10	Heo	HHPPL	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. Validity of Concurrence to the project expired on 29.07.2020. MOP vide letter dated 22.12.2021 indicated that Heo HEP to be pursued by NEEPCO.
11	Tato-I	SHPPL	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. Validity of Concurrence to the project expired on 29.10.2020. MOP vide letter dated 22.12.2021 indicated that Tato-I HEP to be pursued by NEEPCO.
12	Dibang [Dibang Storage]	NHPC	lower Dibang Valley	Dibang	2880	18.09.2017	S	EC accorded on 19.05.2015. FC-I accorded on 15.04.2015. FC-II accorded on 12.03.2020 CCEA at its meeting held on 17.07.2019 has accorded approval for incurring expenditure of Rs. 1600 crore on Pre-investment activities for the project including NPV, CA, CAT Plan and Wildlife Management. Investment approval under progress. CEA vide letter dated 29.08.2022 extended the validity of concurrence upto 13.06.2024. Project is in advanced stage for CCEA clearance.
13	Attunli	AHEPCL	Dibang Valley	Tangon	680	15.03.18	R(P)	Both EC and FC are yet to be obtained. MoEF&CC stated that fresh ToR was issued in May'2019. 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.
13	Total				15858			

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. 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 10.10.2023 has been return on 25.04.2022 due to non-submission of desired information sought vide this office letter dated 06.09.2021.

<p>###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.</p>
<p>#### 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.</p>
<p>##### As per Cumulative Impact Assessment recommendations for Siang basin, parameter of Hiron 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. Government of Arunachal Pradesh vide letter dated 09.07.201 informed CEA that allotment of Hiron HEP to M/s. JAPL has been withdrawn/ cancelled vide GoAP letter dated 21.04.2021 . Further, validity of Concurrence to project expired on 10.04.2016. MOP vide letter dated 22.12.2021 indicated that Hiron HEP to be pursued by NEEPCO.</p>
<p>##### 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.</p>
<p>##### 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. Further, As noted in the agenda note for meeting in respect of projects on PMG portal, FAC has raised certain observations to GoAP, MOP, NTCA and Environment division of MOEF&CC during the meeting of 23rd April 2020, . GoAP has submitted replies to all the observations raised to them by FAC, in August 2020. MOP has submitted its observations, favorable to the project, in September 2020. Final recommendations of FAC are pending.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 constiution.Validity of Concurrence to the project expired on 12.07.2021. MOP vide letter dated 22.12.2021 indicated that Etalin HEP to be pursued by SJVNL.</p>

\$- EC is linked with Siang BSR, which is completed and accepted by MoEF&CC. FC-I pending with State Govt. MoEF&CC stated that developer needs to apply afresh for EC online as old proposal is not valid anymore. DISCOMs are reluctant to sign PPA. 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 . Further, validity of Concurrence to project expired on 11.09.2019. MOP vide letter dated 22.12.2021 indicated that Naying HEP to be pursued by NEEPCO.

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

5. 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))	Month of Return/Reason of Return
1	Ranganadi St-II	NEEPCO	130	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	R	DPR returned on 05/11 due to inadequate geological investigations at dam site, diversion tunnel, surge shaft & power house etc.
3	Hutong –II	MEIPL	1200	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	MFIPPL	1352	S	Returned on 05/12 and STC decided that M/S MFIPPL should carry out the detailed investigation for the revised DPR as per CEA's letter dt 24.5.2012.
5	Pemashelphu HEP	MHPL	90	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 [Sesseri]	SSHPL	100	S	Returned on 06/13 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	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	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	R(P)	Returned on 29.07.2013 due to inadequate investigation and in proper layout etc.
10	Nyukcharong Chu	SNCPCCL	96	R	Returned on 04/15 due to non-submission of investigation suggested by GSI.
11	Subansiri Middle (Kamla)	KHEPCL	1800	S	Returned on 29.01.2018. All the partial clearances issued till date were rescinded as no progress has been made by the Developer towards resolving the issues pending with various appraising groups.
12	Magochu	SMCPCL	96	R	
13	Tagurshit	L&T Power Development Ltd	74	R	Returned in 06/19.
13	Total		5323		

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

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

Sl. No.	Name of Project	Basin/River	Agency for DPR	Original I.C. (MW)	District	Type (R/S/R(P))	Date of MOA	Target date of Preparation of DPR
1	Anjaw	Lohit	Athena Energy Ventures Ltd.	270	Anjaw	R	09.07.2007	March'23
2	Demwe UpperSt-I	Lohit	Lohit Urja Pvt Ltd	270	Anjaw	R	09.07.2007	March'23
3	Niare	Subansiri	Andra Power Private Limited	860	Upper Subansiri	R		March'23
4	Upper Siang	Siang	NHPC	11200	Upper Siang			
4	Total			12600				

7. H.E. Projects allotted for development on which Survey & Investigation is held up/ yet to be taken up:

Sl. No.	Name of Project	I.C. (MW)	Agency	Date of Allotment/ MoA	District	Status
1	Papu	90	CESC Ltd.	16.05.2012	East Kameng	Issue of interference of levels with the Upstream project of M/s Vensar Energy Ltd, i.e Papu Valley HEP (45MW) requires to be resolved. Both Vensar constructions and CESC Ltd clarified that there is no overlapping at ground wide letter dtd 29/12/16. Re-survey and DPR submission was targeted to be completed in May 2019, which is still awaited.
2	Emra-I	275	Athena Energy Ventures Pvt. Ltd.	02.02.2008	Dibang Valley	No proper approach road to the project site. No progress is shown till date. Intent to Terminate by GoAP under process since 25/07/2018.
3	Rho	93	SEW Energy	2.3.2009	Tawang	First consultation meeting held on 30.10.2013. No visible progress since 2015. Drift Work pending. Letter issued to the developer to resolve issues with CEA/CWC/GSI on 17/9/19.
4	Dardu	60	KVK Energy & Infrastructure Ltd.	26.12.2007	Papum pare	No activity/progress in the project. Local public are demanding to hand over the project to CPSU. Dikrong basin study not yet finalised. Intention to terminate by GoAP is under process since 10/04/18.
5	Naba	1000	Abir Infrastructre Pvt. Ltd.	21.06.2010	Upper Subansiri	S&I held up due to unapproachable area/ difficult & inhospitable terrain and local law & order problem. There is no activity in the project. 2nd show cause notice was issued by GoAP on 26/06/2015. Water Availability Studies submitted by developer to CWC in Oct' 2021.
6	Dengser	552	Coastal Infrastructre Pvt. Ltd.	26.04.2011	Upper Subansiri	S&I held up due to unapproachable area/ difficult & inhospitable terrain and local law & order problem. No activity in the project. 1st show cause notice was issued on 12/05/2015.
7	Emra-II	390	Athena Energy Ventures Ltd.	02.02.2009	Dibang Valley	No road connectivity to project site. Local issues, communication problems. Intent to Terminate under process since 25/07/2018.
8	Yamne-I	111	S.S. Yamne Power Pvt Ltd	05.03.2009	Upper Siang	First consultation meeting held on 30.07.2014. Local and law and order. Problems. Under process for termination since 18/05/18
9	Dinchang	252	KSK Energy Ventures Ltd	11.9.2007	West Kameng	Project under process for termination by GoAP since 13.03.2018.

10	Ithun-I	84	JVKIL Consortium	29.8.2008	Lower Dibang Valley	Non-operationalization of Hunli-Desali road. Very slow progress, hence under process for Intent to Terminate by GoAP since 19/07/2018
11	Subansiri Upper	1800	KSK Energy Ventures Ltd.	18.03.2010	Upper Subansiri	S&I held up due to lack of clarity on funding of Flood Moderation cost. Second show cause notice was issued on 26/06/2015.
12	Kurung (Kurung Dam - I + Kurung Dam-II)	330	NEEPCO	27.01.2015	Kra Daadi	S&I held up as the proposal for sanction of Pre-Investment expenditure is on hold. Meeting of Delegated Investment Board(DIB) for pre-investment approval held on 18/01/2018 wherein Secy(Power), MoP expressed concern over some of the clauses of MoA between NEEPCO and GoAP
13	Chomi	80	Adveta Power	14.2.2013	Kurung Kumev	MoA to be renewed.
14	Chela	75	Adveta Power	14.2.2013	Kurung Kumev	MoA to be renewed.
15	Para	45	Coastal Projects Pvt. Ltd.	19.11.2008	East Kameng	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.
16	Tidding-I	84	Sai Krishnodaya Ind. (P) Ltd.	26.02.2009	Anjaw	S&I is held up as there is in progress in the S&I activities of project. ToR has not been obtained and there is no progress in geotechnical investigations.
17	Tidding-II	75	Sai Krishnodaya Ind. (P) Ltd.	26.02.2009	Anjaw	S&I is held up as there is in progress in the S&I activities of project. ToR has not been obtained and there is no progress in geotechnical investigations.
18	Oju (Oju-I + Oju-II)	1878	Navayuga Engg. Co. Ltd.	June 2010 for Oju-I & Oju-II. Revised MoU for Single Scheme is received in Apr'13	Upper Subansiri	S&I held up due to inaccessibility of the project site.
19	Pauk	145	Velcan Energy Pvt Ltd	30.06.2007 (rev MOA-31.07.09)	West Siang	S&I held up due to land disputes between clans and law & order problem.
20	Pango (Minniying)	96	Meenakshi Power Ltd.	27.08.2010	Upper Siang	S&I held up due to lack of infrastructure, poor communication network and remoteness of site.
21	Sippi	96	Meenakshi Power Ltd.	20.7.2011	Upper Siang	S&I held up due to lack of infrastructure, poor communication network and remoteness of site.
22	Jidu (Yangsang)	92	Meenakshi Power Ltd.	20.7.2011	Upper Siang	S&I held up due to lack of infrastructure, poor communication network and remoteness of site.
23	Pachuk-II	61	Energy development	27.08.2010	Pachuk	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
24	Tsa Chu - II	67	Energy development Co. Ltd	27.08.2010	Nykcharong chu	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
25	Pachuk-II Lower [Kapak Leyak]	51	Energy development Co. Ltd	27.8.2010	Pakke Bung	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
26	Marijingla	39	Energy development Co. Ltd	12.1.2008 (Amended on 27.8.2010)	Kameng	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
27	Marijingla Lower	37	Energy development Co. Ltd	27.8.2010	Kameng	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
28	Rego	97	Greenko Energies Ltd.	25.09.2012	West Siang	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
29	Rapum	66	Greenko Energies Ltd.	27.12.2007	West Siang	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
30	Panyor	80	Rajratna Energy Holding Pvt. Ltd.	25.02.2009	Lower Subansiri	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
31	Lower Yamne St-I (Jaru)	75	Yamne Power Pvt. Ltd	29.11.2009	Upper Siang	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
31	Total	8276				

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

8. Projects dropped due to basin studies/other reasons:

Sl. No.	Name of Project	I.C. (MW)	River	Basin	Type (R/S/R(P))	Remarks
1	Jarong	90	Siang	Brahmaputra		It is recommended not to allot the project again as this will ensure that 5.1 Km of Siyom river stretch between upstream Taiyong HEP and downstream Hironng HEP will remain a free flowing river stretch.
2	Hirit Korong	42	Siang	Brahmaputra		Fish species like Mahseer (<i>Tor putitora</i>) migrates for spawning and breeding. <i>Labeo pangusia</i> is another fish which prefers waters of Hirit river for spawning. All the projects in Hirit basin are in eco-sensitive zone i.e. within 10 km radius of Yordirabe Supse Wildlife sanctuary.
3	Soying Korong	48	Siang	Brahmaputra		
4	Siri Korong	58	Siang	Brahmaputra		
5	Sipit Upper	45	Siang	Brahmaputra		Dropped due to biodiversity richness of the basin.
6	Gameng	37	Siang	Brahmaputra		Sike flow is not sufficient to sustain a project and still have adequate environment flow through out the year.
7	Yemsing	38	Siang	Brahmaputra		This is in biodiversity rich area and would be affecting 8.8 Km of the river length for 38 MW.
8	Tammu	55	Subansiri	Brahmaputra		Doesn't meet the requirement of minimum e-flow. Dropping of this project will keep free flowing of Siu tributary of subansiri basin and provide lateral connectivity for aquatic fauna and conserve migratory fish species.
9	Nazong	60	Bichom	Brahmaputra		Dropped to ensure free flow of natural river .
10	Hutong Stage-I	750	Lohit	Brahmaputra		Dropped as it is at the elevation where both <i>Mahaseer</i> and <i>Snow Trout</i> are observed. The dropping of the project will provide the free stretch of 19.1 km for migration of both these species. The site is also not geologically stable
11	Kameng-I [Bharela Lift Dam - I]	1120	Kameng	Brahmaputra		
12	Kameng-II [Bharela Lift Dam - II]	600	Kameng	Brahmaputra		The project has been deleted from S&I Held up list as the project has been dropped as per Kameng Basin study report.
13	Pakke	110	Kameng	Brahmaputra		
14	Seba	80	Kameng	Brahmaputra		
15	Pasar	32	Kameng	Brahmaputra		
16	Bichom-St-I	190	Bichom/	Brahmaputra		
17	Bichom-II	205	Bichom/	Brahmaputra		
18	Malinye [Mulinye]	335	Dibang	Brahmaputra		Falls within Dibang Wildlife Sanctuary.
19	Tsa Chu-I	43	Tawang	Brahmaputra		
20	Thingbu Chu	60	Tawang	Brahmaputra		
21	Nyamjang Chhu	780	Tawang	Brahmaputra	R(P)	As per the NGT Order, MoEF&CC had undertaken a study on black neck crane through Wild Life Institute of India (WII), Dehradun. WII submitted the report and recommended for non-development of any hydro power project in Nyamjang Chhu Valley. GoAP terminated the memorandum of agreement (MoA) signed with Bhilwara Energy Limited (BEL) on 20.09.2019. The Hon'ble Supreme Court stayed the termination of MoA. The matter of arbitration is pending in Hon'ble Itanagar Bench of Gauhati High Court and hearings are going on.
21	Total	4778				

* Part of Hutong (as per re-assessment) (For Sr. No 10)

9. Projects stuck due to Inter-State/ Other Issues:

Sl. No.	Name of Project	I.C. (MW)	River	Date of CEA Concurrence	Type (R/S/R(P))	Remarks
1	Tato-II	700	Siyom	22.05.2012	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.
2	Dibbin	120	Bichomchhu	04.12.09	R(P)	EC accorded on 23.7.2012. FC-I accorded on 07.02.2012. FC-II yet to be obtained. Project is under consideration for transfer to State Govt./ NEEPCO. Installed capacity of the project is likely to be revised. Accordingly, DPR needs to be re-casted. MOP vide letter dated 22.12.2021 indicated that Dibbin HEP will be pursued by NEEPCO..
3	Siyom (Middle Siang)	1000	Siang	17.12.13	R(P)	EC accorded 31.01.2008. 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.
4	Nafra	120	Bichom	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. Government of Arunachal Pradesh vide letter dated 09.07.2021 informed CEA that allotment of Nafra HEP to M/s. SNEL has been withdrawn/ cancelled vide GoArP letter dated 23.12.2019. NEEPCO vide letter dated 23.08.2021 to HPA informed that it has signed MoA with GoArP on 14.08.2021 for Nafra HEP. Subsequently, HPA Division vide letter dated 31.08.2021 requested NEEPCO to submit allotment letter of GoArP and fresh DPR as per revised e-flows under Cumulative Basin Studies of Bichom Basin. NEEPCO vide letter dated 03.09.2021 submitted Allotment letter. MOP vide letter dated 22.12.2021 indicated that Nafre HEP will be pursued by NEEPCO. NEEPCO vide letter dated 10.01.2022 submitted updated hydrology chapter for vetting by CWC. NEEPCO vide letter dated 02.06.2022 submitted revised PPS chapter to HPA division for vetting/ appraisal. Recommendation of HPA division on PPS chapter issued vide HPA letter dated 24.06.2022 for installed capacity of 95 MW. Developer vide letter dated 06.07.2022 has requested CEA to maintain installed capacity of 120 MW citing various reasons. HPA division vide letter dated 07.07.2022 requested developer to carry out commercial viability at 120 MW and submit proposal to CEA.
4	Total	1940				

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

10. H. E. Projects yet to be allotted by the State for development

Sl.No.	Name of Project	River	Type	I.C.(MW)	District	Remarks
1	Agoline	Dibang	R	235	Dibang valley	
2	Elango	Ahi	R	180	Dibang valley	
3	Rigong	Rigong	R	130	Upper Siang	
4	Mirak	Sigong	R	160	Upper Siang	
5	Hegio	Kurung	R	250	Kra Daadi	
6	Doimukh [Dudmukh Storage]	Dikrong	S	170	Papum pare	The project has been surrendered by developer to the State Govt.
7	Kimi	Bichom	R	535	West Kameng	
8	Chanda	Kameng	R	110	East Kameng	
9	Pengging	Yamne	R	60	Upper Siang	
10	Milli	Kurung	R	75	Kurung Kumey	
11	Sape	Kurung	R	38	Kurung Kumey	
12	Nyepin	Payam	R	32	Kurung Kumey	
13	Hiya	Payam	R	41	Kurung Kumey	
14	Kamla (Tamen)	Kamala	R	175	Lower Subansiri	
15	Turu (Par)	Dikrong	R	65	Papum Pare	
16	Yazali Storage	Ranga	S	95	Lower Subansiri	
17	Tago-I	Yarjap	R	55	Lower Subansiri	
18	Tenga	Tenga	S	275	West Kameng	

19	Rebby	Kameng	R	30	East Kameng	
20	Satuk	Pachuk	R	47	East Kameng	
21	Lachung	Pachi	R	41	North Sikkim	
22	Phanchung	Pachi	R	90	East Kameng	
23	Utung	Bichom	R	110	West Kameng	
24	Khuitam	Digen	R	29	West Kameng	
25	But	Digen	R	26	West Kameng	
26	Mathithing	Digen	R	40	West Kameng	
27	Pichang	Kuru	S	31	West Kameng	
28	Tarang Warang	Pacha	R	65	East Kameng	
29	Sepla	Pacha	R	46	East Kameng	
30	Yangman Storage	Burhi Dihing	S	60	Changlang	
31	Tirap (Tipang)	Tirap	S	80	Changlang	
32	Jameri	Tenga	R	60	West Kameng	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to KSK Energy Ventures
33	Meyong	Timkong Rong	R	38	West Kameng	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Patel Engineering Ltd.
34	Gongri #	Gongri	R	144	West Kameng	State Govt. terminated the agreement with developer for execution of Gongri project which was earlier allotted to Patel Engineering Ltd. from under construction stage.
35	Badao	Kameng	R	66	East Kameng	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Coastal Projects Pvt. Ltd.
36	Amulin	Mathun	R	420	Dibang valley	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Reliance Power Ltd.
37	Emini	Mathun	R	500	Dibang valley	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Reliance Power Ltd.
38	Mihumdon	Dri	R	400	Dibang valley	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Reliance Power Ltd.
39	Digin	Sangti	R	46	East Kameng	
40	Lower Yamne St-II (Yapin)	Yamne	R	87	Upper Siang	
41	Nalo	Subansiri	R	635	Upper Subansiri	State Govt. vide their letter dated 09.07.21 has informed that project has been terminated.
42	New Melling	Magochu	R	90	Tawang	State Govt. vide their letter dated 09.07.21 has informed that project has been terminated.
43	Tsa Chu-I Lower	Nykrongchu	R	77	Tawang	State Govt. vide their letter dated 09.07.21 has informed that project has been terminated.
44	Demwe Upper St-II	Lohit	R	270	Anjaw	
45	Demwe Upper St-III	Lohit	R	202.5	Anjaw	
45	Total	45 Nos. of Projects		6411.5		
Note: R –Run of the River & S- Storage						

State Govt. terminated the agreement with developer for execution of Gongri project from under construction stage.
(As discussed with CE, State Govt. may get it developed through some other developer that's why not to be kept in dropped list)

Status of Large Hydro Power Development in Assam

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		9	650
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	120
Total		10	770
I	Projects in operation	3	350
II	Projects Under Active Construction	1	120
III	Projects allotted by States for development		
	(i) Projects returned to project authorities	1	60
IV	Projects yet to be allotted by the State for development *	5	185

*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, etc.

1 (A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C. (MW)
1	Dilli Stor.	Disang	33
2	Jamuna Dam P/H	Jamuna	28
3	Diyung Dam P/H	Diyung	47
4	Langey	Borpani	37
5	Khondong [Kopili I]	Kopili	50
6	Kopili [Kopili II]	Kopili	265
7	Karbi Langpi [Lower Borpani]	Borpani	90
8	Amring	Amring	40
9	Karbi Langpi [Upper Borpani]	Borpani	60
9	TOTAL		650

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Lower Kopili	Kopili	120	Under Active Construction
1	Sub Total		120	

2. H.E. Projects in Operation:

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

* All projects are in Brahmaputra Basin

3. H.E. Projects under active construction:

Sl No.	Name of Project	Agency	District	River / Basin*	I.C.(MW)	River	Type (R/S/R(P))	Likely Commissioning
1	Lower Kopili	APGCL	Karbi Anglong & Dima Hasao	Kopili / Brahmaputra	120	Kopili	R	2024-25 (Mar'25)
1	Total				120			

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

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

Sl. No	Name of Project	Agency	I.C. (MW)	Month of Return/Reason of Return
1	Karbi Langpi (Upper Borpani)	ASEB	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	

5. H. E. Projects yet to be allotted by the State for development

Sl.No.	Name of Project	River	Type	I.C.(MW)	District
1	Dilli Stor.	Disang	S	33	Dibrugarh
2	Jamuna Dam P/H	Jamuna	S	28	Karbi Anglong
3	Diyung Dam P/H	Diyung	S	47	Cachar
4	Langey	Borpani	R	37	Karbi Anglong
5	Amring	Amring	S	40	Karbi Anglong
5	Total	5 Nos. of Projects		185	

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

Status of Large Hydro Power Development in Manipur

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		15	1761
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	66
Projects Identified in this State but developed/being developed in other State #		-1	-210
Total		15	1617
I	Projects in operation	1	105
II	Projects dropped due to Basin studies/ Other reasons	2	1566
III	Projects yet to be allotted by the State for development*	12	936

Tuivai is being developed in Mizoram (presently in concurred stage)

*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, etc.

1 (A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C. (MW)
1	Laniye-II	Laniye	27
2	Laniye-I	Laniye	34
3	Khongnem Chakha-II	Barak	90
4	Khongnem Chakha-III	Barak	48
5	Nungnag (Nungnang)	Irang	70
6	Nunglieban (Nungliban)	Leimatek	85
7	Khunou	Leimatek	115
8	Thinghat	Tuivai	41
9	Sinjal	Tuivai	39
10	Bungpuilong	Tuivai	80
11	Tipaimukh	Barak	510
12	Irang	Irang	75
13	Pabaram (Pabaram Stor.)	Barak	232
14	Loktak	Loktak	105
15	Tuivai*	Tuivai	210
15	TOTAL		1761

*Tuivai is being developed in Mizoram

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Loktak D/S	Laimatak	66	Concurred
1	Sub Total		66	

2. H.E. Projects in Operation:

Sl.No.	Name of Project	Agency	I. C. (MW)	River/ Basin	District	Type (R/S/R(P))	Year of Commissioning
NHPC							
1	Loktak	NHPC	105	Loktak Lake/ Brahmputra	Churachan dpur	S	1983
1	Total		105				

3. Projects dropped due to Basin studies/ Other reasons:

Sl. No.	Name of Project	I.C. (MW)	River	Basin	Remarks
1	Tipaimukh	1500	Barak	Brahmaputra	MoEF&CC vide 29.08.2013 has declined diversion of 22777.50 ha to forest land falling in Manipur and vide letter dated 26.09.2013 has rejected diversion of 1551.30 ha of forest land falling in Mizoram for the project. Project likely to be dropped.
2	Loktak D/S	66	Leimatak	Brahmputra	Govt. of Manipur vide letter dated 22.09.2020 has conveyed the approval of State Cabinet as decided in its meeting held on 06.08.2020 to arrange a grant of Rs. 400 crore out of which an amount of Rs. 99 crore is to be made available as budgetary support from the Ministry of Power as per its guidelines issued on 08.03.2019. High tariff and State Govt Grant issues preventing take-off of project. The project is likely to be dropped as Govt. of Manipur is not willing to contribute grant on their part.
2	Total	1566			

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

5. H. E. Projects yet to be allotted by the State for development

Sl.No.	Name of Project	River	Type	I.C.(MW)	District
1	Laniye-II	Laniye	R	27	Ukhrul
2	Laniye-I	Laniye	S	34	Ukhrul
3	Khongnem Chakha-II	Barak	S	90	Senapati
4	Khongnem Chakha-III	Barak	R	48	Senapati
5	Nungnag (Nungnang)	Irang	S	70	Tamenglong
6	Nunglieban (Nungliban)	Leimatek	S	85	Bishnupur
7	Khunou	Leimatek	R	115	Tamenglong
8	Thinghat	Tuivai	S	41	Churachandpur
9	Sinjal	Tuivai	S	39	Churachandpur
10	Bungpulong	Tuivai	S	80	Aizawl
11	Irang	Irang	S	75	Tamenglong
12	Pabaram (Pabaram Stor.)	Barak	S	232	Tamenglong
12	Total	12 Nos. of Projects		936	

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

Status of Large Hydro Power Development in Meghalaya

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		25	2298
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		4	412
Total		29	2710
I	Projects in operation	5	322
II	Projects allotted by States for development		
	(i) Projects concurred by CEA and yet to be taken up for construction	1	85
	(ii) Projects under S&I	1	210
	(iii) Projects allotted for development on which S&I is held up/ yet to be taken up	2	620
	(iv) Multipurpose Project	1	60
III	Projects dropped due to Basin studies/ Other reasons	1	210
IV	Projects stuck due to Inter-State/ Other Issues	1	270
V	Projects yet to be allotted by the State for development*	17	1247

*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, etc.

1 (A). Identified Projects during Reassessment study

Sl.No.	Name of Project	River	I. C. (MW)
1	Umlamphang	Umiam	28
2	Kyrdamkulai (Umiam Umtru-III)	Umiam	41
3	Umiam Umtru-IV	Umiam	38
4	Umiam Umtru-V	Umiam	27
5	Umiam Umtru-VI	Umiam	145
6	Simsang Dam P.H.	Someshri	65
7	Kynshi-I (Kynshi-I Stor.)	Kynshi	295
8	Sushen	Myntdu	150
9	Selim	Myntdu	125
10	Umjaut	Umjaut	85
11	Umduna (Umduma)	Umtrew	95
12	Mawhu (Manhu)	Umtru	90
13	Umiew (Mawphu- II) [Nonglyngkien]	Umtru	47
14	Umngi Stage-I (Umngi Storage)	Umngi	35
15	Rangmaw	Umngi	42
16	Nongkolait	Umngi	180
17	Nongnam	Umngi	36
18	Mawpat	Umngi	55
19	Kynshi-II	Umrilang	175
20	Nangmawlar (Nongmawlar)	Kynshi	29
21	Mawsyrpat	Kynshi	45
22	Mawthaba	Kynshi	70
23	Mawblei Storage	Kynshi	100
24	Amagam Storage	Rongdi	35
25	Umanghot (Umngot Stor.)	Umngot	265
25	TOTAL		2298

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Myntdu St. I	Myntdu	126	In Operation
2	New Umtru	Umtru	40	In Operation
3	Umiam St.I	Umiam	36	In Operation
4	Mytdu Leshka-II	Myntdu	210	S&I
4	Sub Total		412	

2. 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))	Year of commissioning
MePGCL								
1	KYRDEMKULAI [Umiam Umtru-III]	1	(2X30)	Tail water of Umiam stage-II & Umtru river	RI-BHOI	60	R(P)	1979
2	UMIAM ST-I	1	(4X9)	UMIAM	RI-BHOI	36	S	1965
3	NEW UMTRU	1	(2X20)	UMTRU	RI-BHOI	40	R(P)	2017
4	UMIAM ST-IV	1	(2X30)	Tail water of Stage-III PH & own catchment	RI-BHOI	60	R(P)	1992
5	MYNTDU ST-I	1	(3X42)	MYNTDU	JAINZIA HILLS	126	R(P)	2012
5	TOTAL MePGCL	5				322		

* All projects are in Brahmaputra Basin

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

Sl No.	Name of Project	Agency	District	River / Basin	I.C. (MW)	Date of CEA Concurrence	Type (R/S/R(P))	Status
1	Wah Umiam Satge-III (Mawphu Stage-II)	NEEPCO		/Brahmaputra	85	26.07.2021	R	EC recommended by EAC on 26.02.2018. FC-I & FC-II awaited.#
1	Total				85			

#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. Stage-II Forest Clearance (Final FC) will be issued only after compliance of Stage-I Forest Clearance by NEEPCO.

4. Multipurpose project (Concurred)

S. No.	Scheme	Sector	Developer	Installed Capacity	Status
1	Simsang Dam Project	Central	Brahmaputra Board	60	Proposal of PPS forwarded by CWC vide letter dated 06.05.2022 (Received on 09.05.2022). Consultant submitted simulation studies on 02.06.2022. HPA Division vide letter dated 13.06.2022 furnished preliminary observations on the proposal. Compliance from developer received on 20.09.2022. HPA Division vide letter dated 02.12.2022 vetted PPS of Simsang Dam Project for IC of 60 MW.
1	Total			60	

5. Projects dropped due to Basin studies/ Other reasons:

Sl. No.	Name of Project	Agency	I.C. (MW)	Type (R/S/R(P))	Month of Return
1	Umangot HEP [Umngot Stor.]	MePGCL	210	S	Jan-18
1	Total		210		

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

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

Sl. No.	Name of Project	Basin /River	Agency	I.C. (MW)	District	Type (R/S/R(P))	Date of MOA	Target date of Preparation of DPR
1	Myntdu Leshka st-II	Myntdu	MePGCL	210	West Jaintia Hills	R	20.4.12	March'23
1	Total			210				

7. H.E. Projects allotted for development on which Survey & Investigation is held up/yet to be taken up:

Sl. No.	Name of Project	I. C.(MW)	Agency	Date of Allotment/ MoA	District	Status
1	Kynshi-II	450	GoMe & Jaiprakash Power Venture Ltd. (JV)	11.12.2007	West Khasi Hills	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.
2	Selim	170	MePGCL	2008	East & West Jaintia Hills	S&I 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.
2	Total	620				

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

8. Projects stuck due to Inter-State/ Other Issues:

Sl. No.	Name of Project	I.C. (MW)	River	Date of CEA Concurrence	Remarks
1	Kynshi-I [Kynshi-I Stor.]	270	Kynshi	31.3.2015	EC: EIA/EMP studies are under process. FC-I & FC-II: Pending. AKPPL vide letter dated 05.08.2021 to HPA Division informed that the revised DPR based on e-flows under revised ToR of EIA/ EMP will be submitted within three months.
1	TOTAL	270			

9. H. E. Projects yet to be allotted by the State for development

Sl.No.	Name of Project	River	Type	I.C. (MW)	District
1	Umlamphang	Umiam	R	28	Ri-Bhoi
2	Umiam Umtru-V	Umiam	R	27	Ri-Bhoi
3	Umiam Umtru-VI	Umiam	S	145	Ri-Bhoi
4	Sushen	Myntdu	R	150	Jaintia Hills
5	Umjaut	Umjaut	R	85	East Khasi Hills
6	Umduna (Umduma)	Umtrew	R	95	East Khasi Hills
7	Mawhu (Manhu)	Umtru	R	90	East Khasi Hills
8	Umngi Stage-I (Umngi Storage)	Umngi	S	35	East Khasi Hills
9	Rangmaw	Umngi	R	42	East Khasi Hills
10	Nongkolait	Umngi	R	180	East Khasi Hills
11	Nongnam	Umngi	R	36	East Khasi Hills
12	Mawpat	Umngi	R	55	West Khasi Hills
13	Nangmawlar (Nongmawlar)	Kynshi	R	29	West Khasi Hills
14	Mawsyrpat	Kynshi	R	45	West Khasi Hills
15	Mawthaba	Kynshi	S	70	West Khasi Hills
16	Mawblei Storage	Kynshi	S	100	West Khasi Hills
17	Amagam Storage	Rongdi	S	35	East Garo hills
17	Total	17 Nos. of Projects		1247	

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

Status of Large Hydro Power Development in Mizoram

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		7	2131
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	460
Projects Identified in other State but developed/being developed in this State #		1	210
Total		9	2801
I	Projects in operation	1	60
II	Projects dropped due to Basin studies/ Other reasons	1	460
III	Projects concurred by CEA and yet to be taken up for construction	1	210
IV	H. E. Projects yet to be allotted by the State for development*	6	2076

*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, etc.

1 (A). Identified Projects during reassessment study.

S. No.	Name of Project	River	I.C. (MW)
1	Lungleng (Lunglang Stor.)	Tyao	690
2	Boinu (Boinu Stor.)	Kaldan	635
3	Mat	Mat	90
4	Tuirial [Sonai]	Sonai	55
5	Deh	Deh	26
6	Bhairabi	Dhaleshwari	90
7	Kaldan (Kaldan Stor.)	Kaldan	545
7	TOTAL		2131

1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Kolodyne St.II	Kolodyne	460	Dropped
1	Sub Total		460	

2. 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))	Year of commissioning
NEEPCO								
1	TUIRIAL [Sonai]	1	(2X30)	TUIRIAL/ BRAHAMPUTRA	KOLASIB	60	S	2017
1	TOTAL MIZORAM	1				60		

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

Sl No.	Name of Project	Agency	River / Basin	I.C. (MW)
1	Tuivai*			210
1	Total			210

*: Tuivai scheme (210 MW) was identified in Manipur during the reassessment study. The scheme was concurred by CEA during 1999. The scheme is yet to be taken up under construction.

4. H.E. Projects dropped due to Basin studies/ Other reasons

Sl. No.	Name of Scheme	I.C. (MW)	River	Basin	Type (R/S/R(P))	Remarks
1	Kolodyne St-II	460	Kolodyne	Brahmaputra	S	Forest proposal submitted to State Govt. on 20.12.2010. The project is likely to be dropped due to high tariff.
1	Total	460				

5. H. E. Projects yet to be allotted by the State for development

Sl.No.	Name of Project	River	Type	I.C.(MW)	DISTRICT
1	Lungleng (Lunglang Stor.)	Tyao	S	690	Aizawl
2	Boinu (Boinu Stor.)	Kaldan	S	635	Chhimitipu i
3	Kaldan (Kaldan Stor.)	Kaldan	S	545	Lawngtlai
4	Bhairabi	Dhaleshwari	S	90	Mamit
5	Mat	Mat	S	90	Lunglei
6	Deh	Deh	S	26	Lunglei
6	Total	6 Nos. of Projects		2076	

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

Status of Large Hydro Power Development in Nagaland

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		11	1452
I	Capacity in operation	1	75
II	Projects concurred by CEA and yet to be taken up for construction	1	186
III	H. E. Projects yet to be allotted by the State for development*	9	1272

*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.

1. Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C. (MW)
1	Dikhu (Dikhu Lift Dam)	Dikhu	125
2	Yangnyu (Yangnyu Stor.)	Dikhu	135
3	Jhanji storage	Jhanji	75
4	Doyang (Doyang-V)	Doyang	55
5	Dikhu Dam P.H.	Dikhu	470
6	Sakhai-II	Tizu	31
7	Khuzami	Tizu	32
8	Rurrur	Zangki	36
9	Zungki	Zangki	48
10	Laruri	Tizu	80
11	Tizu	Tizu	365
11	TOTAL		1452

2. 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))	Year of commissioning
NEEPCO								
1	DOYANG (Doyang-V)	1	(3X25)	DOYANG / Brahmaputra	WOKHA	75	S	2000
1	TOTAL NAGALAND	1				75		

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

Sl No.	Name of Project	Agency	District	River / Basin	I.C. (MW)	Date of CEA Concurrence	Type (R/S/R(P))	Status
1	Dikhu (Dikhu Lift Dam)	NMPPL	Longleng	Dikhu and Yangnyu / Brahmaputra	186	31.03.2014	Seasonal S cum R	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			

calculations for the approval of Nagaland Regulatory Commission. Authority Meeting was held on 27.01.2022. Govt of Nagaland will resume land acquisition after monsoon.

CEA vide letter dated 04.08.2022 informed developer that Central Electricity Authority is not in a position to extend the validity of Concurrence of Dikhu HE Project further as inspite of giving two extensions for validity of concurrence, development of Dikhu HE Project (186MW) is not satisfactory. A meeting held on 08.09.2022 under the chairmanship of Chairperson, CEA regarding reconsideration of extension of validity of Dikhu HEP (186 MW) up to 30.03.2023. As deliberated in the meeting, NMPPL was once again requested to convey concrete plan along with timeline for start of works of Dikhu HEP".

M/s NMPPL vide email dated 29.09.2022 has given their plan with timelines. Principle Secretary to the Govt of Nagaland Power Department Nagaland vide letter dated 28.09.2022 has highlighted some points for special consideration. M/s NMPPL further requestest to extend the TEC for another 3 years and 9 months from the last date TEC was valid, so as enable to start main construction of Dikhu Project by 31.12.2024. In a meeting under the chairmanship of Chairperson, CEA with representatives of State Govt. and developer of the project on 21.10.2022, it was brought out by representative of State Govt. that land acquisition negotiation with villagers of remaining two villages is becoming very difficult and in such situation, the Government of Nagaland is willing to bring down the Installed Capacity of the project to 140 MW or below to minimize the submergence.

In view of above, the developer needs to recast the DPR with revised IC and get fresh concurrence. In such circumstances, re-validation of earlier concurrence of Dikhu HEPProject with IC of 186 MW has no relevance

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

4. H. E. Projects yet to be allotted by the State for development

Sl.No.	Name of Scheme	River	Type	I.C.(MW)	District
1	Yangnyu (Yangnyu Stor.)	Dikhu	S	135	Longleng
2	Jhanji storage	Jhanji	S	75	Mokokchung
3	Sakhai-II	Tizu	R	31	Zunheboto
4	Khuzami	Tizu	S	32	Phek
5	Rurrur	Zangki	S	36	Tuensang
6	Zungki	Zangki	S	48	Kiphire
7	Laruri	Tizu	R	80	Kiphire
8	Tizu	Tizu	S	365	Kiphire
9	Dikhu Dam P.H.	Dikhu	R	470	Longleng
9	Total	9 Nos. of Projects		1272	

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

Status of Large 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
Gumti H.E. Project	Unit-I	5.00 MW	1976	Phase I
	Unit-II	5.00 MW	1976	
	Unit-III	5.00 MW	1984	Phase II