

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)		17	2253
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	-59
Change in Projects due to merging of projects (identified during reassessment study in 1978-87)		-4	-1290
Total		84	19614
I	Projects in operation	28	10065
II A	Projects under active construction	8	2146
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	4 819
	(ii)	Projects under Examination in CEA	2 956
	(iii)	Projects returned to project authorities	1 400
	(iv)	Projects under S&I	5 1671
	(v)	Projects allotted for development on which S&I is held up/ yet to be taken up	6 1690
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.

*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). 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	DhauLasidh	Beas	66	Under Active Construction
17	Sub Total		2253	

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	Giri Bata	Giri & Jalal	60	In Operation	Giri Bata - 24MW
2	Bajoli Holi	Ravi	180	Under Active Construction	Holi - 13 MW
2	Sub Total		240		

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	Bhakra Nangal	Sutlej	1395	Identified	1	Bhakra Left	Sutlej	594	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			1761	
	Net Change in Numbers		2	Increase					
	Net Change in Capacity		-59	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	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)	YEAR OF COMMISSIONING
	CENTRAL SECTOR							
	BBMB							
1	BHAKRA LEFT (BHAKRA NANGAL)	1	5	(2X108+ 3x126)	SUTLEJ	BILASPUR	594	1960-1961
2	BHAKRA RIGHT (BHAKRA NANGAL)	1	5	(5X157)	SUTLEJ	BILASPUR	785	1966-1968
3	DEHAR (PANDOH DIVERSION)	1	6	(6X165)	BEAS	MANDI	990	1977-1983
4	PONG (PONG DAM)	1	6	(6X66)	BEAS	KANGRA	396	1978-1983
	SUB-TOTAL BBMB	4	22				2765	
	NHPC							
5	BAIRA SIUL	1	3	(3X60)	RAVI	CHAMBA	180	1980-1981
6	CHAMERA- I (CHAMERA SHERPUR)	1	3	(3X180)	RAVI	DALHOUSIE	540	1994
7	CHAMERA- II (GWAR)	1	3	(3X100)	RAVI	CHAMBA	300	2003-2004
8	CHAMERA- III (HIBRA)	1	3	(3X77)	RAVI	CHAMBA	231	2012
9	PARBATI-III [SAINJ (PARBATI - III)]	1	4	(4X130)	SAINJ	KULLU	520	2014
	SUB-TOTAL NHPC	5	16				1771	
	SJVNL							
10	NATHPA JHAKRI	1	6	(6X250)	SATLUJ	SHIMLA	1500	2003-2004
11	RAMPUR (RAMPUR NANJAH)	1	6	(6X68.67)	SATLUJ	SHIMLA	412	2014-15
	SUB-TOTAL SJVNL	2	12				1912	
	NTPC LTD.							
12	KOLDAM	1	4	(4X200)	SATLUJ	BILASPUR	800	2015
	SUB-TOTAL NTPC LTD.	1	4				800	
	TOTAL CENTRAL SECTOR	12	54				7248	
	STATE SECTOR							
	HPSEBL							
13	BASSI	1	4	(4X16.5)	BEAS	MANDI	66	1970-1981
14	GIRI BATA *	1	2	(2X30)	YAMUNA	SIRMAUR	60	1978
15	LARJI	1	3	(3X42)	Beas River & its tributaries Sainj & Tirthan	KULLU	126	2006

16	SANJAY [BHABA (SANJAY)]	1	3	(3X40)	SATLUJ	KINNAUR	120	1989
	TOTAL HPSEBL	4	12				372	
	HPPCL							
17	INTEGRATED KASHANG	1	3	(3X65)	SATLUJ	KINNAUR	195	2016-17
18	SAINJ (SAINJ KARTAH-II)	1	2	(2X50)	SAINJ	KULLU	100	2017
19	SWARA KUDDU (Pangula Sanail)	1	3	(3X37)	Pabbar/Tons/ Yamuna	SHIMLA	111	2020
	TOTAL HPPCL	3	8				406	

	PSPCL							
20	SHANAN	1	5	(1X50)+ (4X15)	UHL & Lamba Dug River	MANDI	110	1932-1982
	TOTAL PSPCL	1	5				110	
	TOTAL STATE SECTOR	8	25				888	
	PRIVATE SECTOR							
	MPCL							
21	MALANA	1	2	(2X43)	MALANA	KULLU	86	2001
	TOTAL MPCL	1	2				86	
	GBHPPL							
22	BUDHIL	1	2	(2X35)	RAVI	CHAMBA	70	2012
	TOTAL GBHPPL	1	2				70	
	EPPL							
23	MALANA-II	1	2	(2X50)	MALANA	KULLU	100	2011-12
	TOTAL EPPL	1	2				100	
	IA ENERGY							
24	CHANJU-I	1	3	(3X12)	RAVI	CHAMBA	36	2017
	TOTAL IA ENERGY	1	3				36	
25	ALLAIN DUHANGAN (ALLAIN NALLAH & DUHANGAN)	1	2	(2X96)	ALLAIN NALLAH		192	2010-11
	TOTAL ADHPL	1	2				192	
	JSWHEL							
26	BASPA (BASPA-II)	1	3	(3X100)	BASPA	KINNAUR	300	2003
27	KARCHAM WANGTOO	1	4	(4X261.25)	SATLAJ	KINNAUR	1045	2011 (1000 MW)
	TOTAL JSWHEL	2	7				1345	
	HSPPL							
28	Sorang	1	2	2x50	Sorang	Kinnaur	100	2021 (100 MW)
	TOTAL PVT	8	20				1929	
28	TOTAL HP	28	99				10065	

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

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

Sl. No.	Name of Project	Agency	District	River	Basin	I.C. (MW)	Likely Commissioning
1	Parbati St--II (Parbati -II)	NHPC	Kullu	Parbati/Beas	Indus	800	2022-23 (Mar'23)
2	Uhl- III	Beas Valley Power Corp. Ltd. (BVPC)	Mandi	Uhl/Beas	Indus	100	2023-24 (Dec'23)
3	Tidong-I	M/s NSL Tidong	Kinnaur	Tidong/Satluj	Indus	100	2022-23 (Oct'22)
4	Shontong Karcham	HPPCL	Kinnaur	Satluj	Indus	450	2024-25 (Mar.'25)
5	Bajoli Holi	GMR Bajoli Holi Hydro Power Pvt. Ltd.	Chamba	Ravi	Indus	180	2021-22 (March'22)
6	Kutehr	JSW Energy (Kutehr) Power Ltd. (JSWEPL)	Chamba	Ravi	Indus	240	2025-26 (Nov'25)
7	Luhri St.I	SJVNL	Shimla/Kullu	Satluj	Indus	210	2025-26 (Jan'26)
8	Dhauasidh	SJVNL	Hamirpur/Kangra	Beas	Indus	66	2025-26 (May'25)
8	Total					2146	

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

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

* Subject to re-start of work in immediate future

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	Status
1	Miyar (Udaipur)	NTPC	Chenab /Miyar Nallah	Lahul & Spiti	120	07.02.2013	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	EC recommended by MoEF&CC on 07.01.2021. FC-I accorded by MoEF&CC on 22.12.2021. FC-II yet to be obtained.##
3	Chhatru	DSIL			126	15.01.15	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	EC Cleared. FC yet to be obtained ####
4	Total				819		

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. Validity of Concurrence to the project expired on 07.02.2016.

##CAT plan approved by PCCF (HoFF), GoHP on 01.04.2021.

Acquisition of private land is in progress.

Updated cost estimates vetted by CEA on 30.06.2021. PIB Memo circulated by MoP on 12.08.2021 to concerned ministry/ deptt. After incorporating the comments, revised PIB memo submitted to MoP on 29.10.2021. Investment approval is under process.

NIT for EPC contract package (Civil & HM works) issued on 20.04.2021 and pre-bid meeting held on 07.05.2021. Last date of bid submission extended up to 14.12.2021. Technical Bids for EPC package opened on 30.12.2021.

###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 and further forfeited the upfront money of Rs.21.87 Cr paid by DCM Shriram Infrastructure limited in year 2007. DCM Shriram Infrastructure limited filed a Petition before the High Court of Himachal Pradesh in Shimla. 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 Acquisition shall be processed after achieving financial closure..

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

Sl. No.	Name of Project	Sector	I.C. (MW)	Agency	Month of receipt
1	Dugar	Central	500	NHPC	1-Dec
2	Reoli Dugli	Central	456	SJVN	Jan' 22
2	Total		956		

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

Sl. No.	Name of Project	Agency	I.C. (MW)	Reason of Return
	Ravi Basin			
1	Seli	SHPCCL	400	
1	Total		400	

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

Sl. No.	Name of Project	Basin*/River	Agency for DPR	I.C. (MW)	Date of MoA	Target date of Preparation of DPR
1	Luhri St.-II (Luhri)	Satluj	SJVNL	172	25.09.2019	Sept'24
2	Jangi Thopan Powari	Satluj	SJVNL	804	25.09.2019	June'23
3	Purthi	Chenab	SJVNL	232	25.09.2019	Jan'23
4	Bardang	Chenab	SJVNL	175	25.09.2019	Mar'23
5	Sach khas	Chenab	SJVNL	288	05.01.21	Apr-23
5	Total			1671		

* All projects are in Indus Basin

8. 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	Status
	Satluj Basin				
1	Khab (Khab-I & Khab-II)	636	HPPCL	22.09.2009	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	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	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	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.
	Sub Total	930			
	Chenab Basin				
5	Gyspa Dam (Gyspa)	300	HPPCL	22.09.2009	S&I held up due to sustained opposition from local people.
	Sub Total	300			
	Beas Basin				
6	Nakhtan (Parbati-I)	460	HPPCL	22.09.2009	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			
6	Total	1690			

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

Sl. No.	Project	I.C. (MW)	River	Basin	Remarks
1	Chango Yangthang	180	Spiti	Indus	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	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			

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

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Ropa	Ropa	S	31
2	Taiti-I	Taiti	S	50
3	Homte	Bhaba	R	60
4	Gandharni	Beas	R	49
5	Gharopa	Beas	R	85
6	Tirthan-I	Tirthan	R	32
7	Tirthan-III	Tirthan	R	26
8	Rana Khad	Rana Khad	R	29
9	Tundah	Tundah	R	34
10	Baroti	Siul	S	40
11	Chhota Dara	Chandra	R	50
12	Khoksar	Chandra	R	80
13	Telling (Railing)	Chandra	S	155
14	Gondhala	Chandra	R	90
15	Jhalma	Chenab	R	275
16	Baspa-I	Baspa	S	335
17	Manali	Manalasu	R	37
18	Kulu	Beas	R	90
19	Uhl	Uhl	R	70
20	Gaj	Gaj Khad	R	34
21	Sainj-I	Sainj	R	55
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	4	2511.5
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	4	3419
	(ii) Multi purpose Projects approved by MoWR	2	996
	(iii) Projects returned to project authorities	1	390
	(iv) Projects under S&I	2	500
	(v) 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.

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	S&I
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)	YEAR OF COMMISSIONING
JKSPDC							
1	BAGLIHAR	1	(3X150)	CHENAB	RAMBAN	450	2008
2	BAGLIHAR II [BAGLIHAR]	1	(3X150)	CHENAB	RAMBAN	450	2015
3	LOWER JHELUM	1	(3X35)	JHELUM	BARAMULLAH	105	1978-1979
4	UPPER SINDH-II	1	(3X35)	SINDH	GANDERBAL	105	2001-2002
	TOTAL JKSPDC	4				1110	
NHPC							
1	DULHASTI	1	(3X130)	CHENAB	KISTWAR	390	2007
2	SALAL - I&II (SALAL)	1	(6X115)	CHENAB	REASI & UDAMPUR	690	1987-95
3	URI-I (URI)	1	(4X120)	JHELUM	BARAMULA	480	1996-1997
4	URI-II (URI)	1	(4X60)	JHELUM	BARAMULA	240	2013-14
5	SEWA-II [Seawa]	1	(3X40)	SEWA II	MAHASKA	120	2010-11
6	KISHENGANGA (KARAL PUR)	1	(3X110)	KISHENGANGA	A	330	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	Likely Commissioning
1	Pakal Dul	CVPPL	Kishtwar	1000	Marusadar/ Chenab	Indus	2025-26 (July'25)
2	Parnai	JKSPDC	Poonch	37.5	Jhelum	Indus	2023-24 (Dec.'23)
3	Kiru	CVPPL	Kishtwar	624	Chenab	Indus	2024-25 (Aug.'24)
4	Ratle	RHEPPL / NHPC	Kishtwar	850.00	Chenab	Indus	2025-26 (Feb'26)
4	Total			2511.5			

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

Sl.No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	Status & Likely Commissioning
1	Lower Kalnai	JKSPDC	Kishtwar	48	Chenab	Indus	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.**
1	Total			48			

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

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	Status
1	New Ganderwal	JKSPC	Jhelum/Sindh	Ganderwal	93	10.06.14	EC accorded on 27.9.13 & FC accorded on 02.04.2012. #
2	Kwar	CVPP	Chenab	Kishtwar	540	23.02.17	EC accorded on 10.04.17. FC accorded on 08.08.14. ##
3	Kirthai-II (Naunut)	CVPPL	Chandrabhaga /Chenab	Kishtwar	930	14.06.2019	EC recommended by MoEF&CC on 15.04.2021. FC yet to be obtained by developer. ###
4	Sawalkote	NHPC	Chenab	Ramban & Udhampur	1856	18.04.18	Fresh EC will be required for Sawalkote HEP as MoEF&CC delisted EC for the project on 04.08.2017. FC yet to be obtained. ####
4	Total				3419		

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

Revised Draft PIB note to MoP GoI considering exemptions accorded by GoJK and appraised cost by CEA at Sep'2020 PL submitted on 21.12.2020. 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 and retendering in process. Technical bids opened and are under evaluation. PIB Proposal at September, 2020 PL for investment approval is in process in MoP.

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.

Joint survey under process. 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 TEC are yet to be transferred in favour of M/s. NHPC.

5. 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)
2	Ujh (Including Dam Toe PH)	State	196	Jan-18	Cleared: PPS (29.10.18)
2	Total		996		

6. 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
1	Kirthai -I (Sho)	JKSPDC	390	Jul'21
1	Total		390	

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

Sl. No.	Name of Project	Basin/River	Agency for DPR	I.C. (MW)	Date of MoA	Target date of preparation of DPR
1	Uri-I (Stage-II)	Indus/ Jhelum	NHPC	240	03.01.2021	Mar'22
2	Dulhasti St-II	Indus/ Chenab	NHPC	260	03.01.2021	Sep'22
2	Total			500		

8. 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	Status
1	Shamnot	370	NHPC	-	S&I held up as the project will submerge National Highway.
1	Total	370			

9. 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	

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

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Shuas	Chenab	R	505
2	Barinium(Berinaum)	Chenab	R	435
3	Naga	Kal Nai	R	29
4	Kiwa	Kal Nai	R	37
5	Tipri	Kal Nai	R	36
6	Bichlari	Bichlari	R	75
7	Shutkarikulan (Sonmarg)	Sind	S	155
8	Kishenganga-II (Wangam)	Bonar	R	60
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	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	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)
1	Kiari	Indus	R	28
2	Parfila	Zaskar	S	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
22	Total	22 Nos. of Projects		1866

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

Status of Large Hydro Power Development in Punjab

		Nos.	Capacity
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	Anandpur Sahib-I & II [Anandpur 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)	YEAR OF COMMISSIONING
PSPCL							
1	ANANDPUR SAHIB-I [Anadpur Sahib, Ph-I & II]	1	(2X33.5)	AHC (CANAL)	RUPNAGAR	67	1985
2	ANANDPUR SAHIB-II [Anadpur Sahib, Ph-I & II]	1	(2X33.5)	AHC (CANAL)	RUPNAGAR	67	1985
3	MUKERIAN-I [Mukerian Canal]	1	(3X15)	TAIL WATER OF PONG DAM	HOSHIARPUR	45	1983
4	MUKERIAN-II [Mukerian Canal]	1	(3X15)	TAIL WATER OF PONG DAM	HOSHIARPUR	45	1988-89
5	MUKERIAN-III [Mukerian Canal]	1	(3X19.5)	TAIL WATER OF PONG DAM	HOSHIARPUR	58.5	1989
6	MUKERIAN-IV [Mukerian Canal]	1	(3X19.5)	TAIL WATER OF PONG DAM	HOSHIARPUR	58.5	1989
7	RANJIT SAGAR [Thein]	1	(4X150)	Reservoir on River Ravi	PATHANKOT	600	2000
	TOTAL PSPCL	7				941	
BBMB							
8	GANGUWAL	1	(2X24.2)+ (1X29.25)	SATLUJ	RUPNAGAR	77.65	1955-1962
9	KOTLA	1	(2X24.2)+ (1X29.25)	SATLUJ	RUPNAGAR	77.65	1956-1961
	SUB-TOTAL BBMB (PUNJAB)	2				155.3	
9	TOTAL PUNJAB	9				1096.3	

* ALL PROJECTS ARE IN INDUS BASIN

3. H.E. Projects under active Construction:

Sl. No.	Name of Project	Implementing Agency	District	River /Basin	I. C. (MW)	Likely Commissioning
1	Shahpurkandi [Shahpur]	Irr. Deptt. & PSPCL	Gurdaspur	Ravi /Indus	206	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			

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.

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

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

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 Cana	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)	YEAR OF COMMISSIONING
1	KHARA	1	(3X24)	YAMUNA LINK CHANNEL	SUNEBHADRA	72	1992
2	MATATILLA	1	(3X10.2)	BETWA	LALITPUR	30.6	1965
3	OBRA	1	(3X33)	RIHAND	SUNEBHADRA	99	1970-1971
4	RIHAND	1	(6X50)	GOVIND BALLAB PANT NAGAR	SINGRAULI	300	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.	Name of	I.C.	Location	States	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			

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	17357
I	Projects in operation	17	3855.35
II A	Projects under active construction	4	1144
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	3 514
	(vi)	Projects allotted for development on which S&I is held up/ yet to be taken up	15 2402
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 June, 2023.

*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). 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 (B). 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 (C). 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 (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	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)	YEAR OF COMMISSIONING
	CENTRAL SECTOR						
	NHPC						
1	DHAULI GANGA [KHET TAWAGHAT]	1	(4X70)	DHAULIGANGA	PITHORAGARH	280	2005
2	TANAKPUR	1	(3X31.4)	SARDA	CHAMPAVAT	94.2	1992
	SUB-TOTAL NHPC	2				374.2	
	THDC						
3	TEHRI ST-I [TEHRI DAM ST-I]	1	(4X250)	BHAGIRATHI	TEHRI GARHWAL	1000	2006-2007
4	KOTESHWAR	1	(4X100)	BHAGIRATHI	TEHRI GARHWAL	400	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	1975-1976
6	CHILLA [RISHIKESH HARDWAR]	1	(4X36)	GANGA	HARIDWAR	144	1980-1981
7	DHAKRANI	1	(3X11.25)	Tons & Yamuna Rivers at Dakpathar Barrage	DEHRADUN	33.75	1965-1970
8	DHALIPUR	1	(3X17)	Tons & Yamuna Rivers at Dakpathar Barrage	DEHRADUN	51	1965-1970
9	KHATIMA	1	(3X13.8)	SHARDA	UDHAM SINGH NAGAR	41.4	1955-1956
10	KHODRI	1	(4X30)	TONS	DAK PATHAR	120	1984
11	KULHAL	1	(3X10)	TONS	DEHRADUN	30	1975
12	MANERI BHALI- I	1	(3X30)	BHAGIRATHI	UTTARKASHI	90	1984
13	MANERI BHALI- II	1	(4X76)	BHAGIRATHI	UTTARKASHI	304	2008

14	RAMGANGA [RAMGANGA DAM (KALAGARH)]	1	(3X66)	RAMGANGA	PAURI GARHWAL	198	1975-1977
	TOTAL UJVNL	10				1252.15	
	PRIVATE						
	AHPC						
15	SHRINAGAR	1	(4X82.50)	ALAKNANDA	TRHRI & PAURI	330	2015
	JPPVL						
16	VISHNU PRAYAG	1	(4X100)	ALAKNANDA		400	2006
	ReNew Power						
17	SINGOLI BHATWARI	1	(3X33)			99	2020
	SUB TOTAL PRIVATE	3				829	
17	TOTAL UTTARAKHAND	17				3855.35	

Note: ALL PROJECTS ARE IN GANGA BASIN

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

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	Likely Commissioning
1	Vishnugad Pipalkoti	THDC	Chamoli	444	Alaknanada	Ganga	2024-25 (Jun'24)
2	Naitwar Mori	SJVNL	Uttarkashi	60	Tons/ Yamuna	Ganga	2022-23 (Dec'22)
3	Vyasi [Lakhwar Vyasi - II]	UJVNL	Dehradun	120	Yamuna/Ganga	Ganga	2021-22 (Mar.'22)#
4	Tapovan Vishnugad [Tapovan Chunar]	NTPC	Chamoli	520	Dhauliganga / Alaknanada	Ganga	2024-25 (June'24)
4	Total			1144			

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 2022-24 (Dec23).**

Vyasi (120 MW) was not under original hydro capacity addition programme for 2021-22

** 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	Status & Likely Commissioning
1	Lata Tapovan	NTPC	Chamoli	171	Dhauliganga / Alaknanada	Ganga	Subsequent to the Uttarakhand disaster in June, 2013, Hon'ble Supreme Court gave the judgment on 13.08.2013 that "MoEF as well as State of Uttarakhand not to grant any further environmental clearance or forest clearance for any hydroelectric power project in the State of Uttarakhand, until further orders". Therefore, the construction work stopped .The matter is sub-judice. 2025-26*
2	Phata Byung	LANCO	Rudraprayag	76	Mandakini/ Alaknanda	Ganga	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 has initiated the process for inviting prospective investors for the project. 2024-25*
2	Total			247			

* Subject to re-start of work in immediate future

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)	Status
1	Kotlibhel St-IA [Kotlibhel]	Bhagirathi	NHPC	Tehri Garhwal	195	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	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	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.

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	I.C. (MW)	Month of Return
1	Nand Prayag Langasu	Alaknanda	UJVNL	State	100	Apr-11
2	Mori Hanol [Ugmir]	Tons		Private	63	Jan-10
3	Bogudiyar Sirkari Bhyol	Gori Ganga	GVK L&T	Private	146	Sep-10
4	Tiuni Plasu [Tiuni]	Tons	UID	State	72	Oct-10
5	Jhelum Tamak	Dhauliganga	THDCIL	Central	108	Aug-19
6	Bowala Nand Paryag	Alaknanda	UJVNL	State	300	May-21
6	Total				789	

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

Sl. No.	Name of Project	Basin/River	I.C. (MW)	Agency	Target date of preparation of DPR
1	Sirkari Bhyol Rupsiabagar	Gori Ganga	120	UJVNL	December'22
2	Bokang Bailing	Dhauliganga	200	THDC	December'22
3	Devsari	Pinder	194	SJVNL	Feb'23
3	Total		514		

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	Date of Allotment/ MoA	Status
1	Arakot Tiuni [Nakot Patlasu]	Pabar , Tons	72	UID	-	MOEF clearance awaited. S&I yet to be taken up.
2	Chhunger - Chal	Dhauliganga	120	NHPC	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	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.	-	MoEF Clearance awaited. S&I heldup as the project area falls under ASkot Musk deer Sanctuary
5	Sela Urthing	Dhauliganga	230	UJVNL	09.12.2004	Road connectivity is not proper upto the project site. S&I shall be taken up after confirmation of levels.
6	Jadh Ganga	Jadh Ganga	50	THDC	21.11.2005	Project included in the list of 24 HE perproject 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.
7	Karmoli	Jadh Ganga	140	THDC	21.11.2005	Project included in the list of 24 HE perproject 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.

8	Rishi Ganga - I	Rishi Ganga	70	UJVNL	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	Rishi Ganga - II	Rishi Ganga	35	UJVNL	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.
10	Taluka Sankri [Taluka Saul + Sankri Kunare]	Tons	140	UJVNL	09.12.2004	Project located in Govind Pashu Vihar & Govind National Park.
11	Gohana Tal	Birahi Ganga	50	THDC	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.
12	Karmoli Lumti Tulli [Khartoli Lumti Talli]	Goriganga	40	NHPC	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.
13	Maleri Jhelam [Malari Jhelam]	Dhauliganga	65	THDC	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.
14	Mapang - Bogidiyar	Goriganga	200	GVK-L&T	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.
15	Tamak Lata	Dhauliganga	280	UJVNL	09.12.2004	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court.
15	Total		2402			

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

Sl. No.	Project	I.C. (MW)	River	Basin	Remarks
1	Pala Maneri * [Pala Bhela Tipri + Bhela Tipri]	480	Bhagirath	Ganga	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	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 + Bhairon ghati + Harsil Dam]	381	Bhagirath	Ganga	Project discontinued by NGRBA
5	Rupsiyabagar Khasiyabara	261	Gauri Ganga	Ganga	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	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.

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

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Kishau Dam	Tons	S	350
2	Pisha Naitwar	Rupin	R	30
3	Ram Ganga Dam	Ram Ganga	S	75
4	Kuwa ford	Yamuna	R	42
5	Nelang	Jadh Ganga	R	190
6	Ganga Canal	Ganga	R	31
7	Diulong Sumangaon	Bhagirathi	R	26
8	Dhargaon Jhandarwali	Bhagirathi	R	29
9	Jamolna Ghansyali	Bhagirathi	R	44
10	Benakuli	Alaknanda	R	40
11	Khel Kuran Neti	Dhaulti Ganga	R	49
12	Niti Ghansali	Dhaulti Ganga	R	32
13	Bampa Kurkuti	Dhaulti Ganga	R	60
14	Girithi Ganga	Girithi Ganga	R	34
15	Deodi	Rishi Ganga	R	65
16	Tikh Gurupha	Pindar	R	26
17	Banoli Nalgam	Pindar	R	55
18	Lakhwar MPP (Lakhwar Vyasi - I)	Yamuna	S	115
19	Uttyasu Dam	Alaknanda	S	1140
20	Sobla Jhimirigaon	Dhaulti Ganga	R	145
21	Tawaghat Dharchula	Sarda	R	310
22	Kalika Dantu	Sarda	R	140
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 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	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)	Year of commissionin g
CSPGCL							
1	HASDEO BANGO [Hasdeo (Bango)]	1	(3X40)	HASDEO/ CIR	KORBA	120	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	Remarks
1	Matnar [Chitrakot]	60	Indravati	EFR	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)
1	Joka	Kanhar	S	28
2	Kharauli	Mahan	R	46
3	Pasal	Rihand	S	55
4	Duniadhih (Duniadhin)	Rihand	S	80
5	Rehar-II (Karri)	Rihand	R	70
6	Konta	Sabari	R	65
7	Bodhghat	Indravati	S	295
8	Kutru-I	Indravati	S	100
9	Kutru-II	Indravati	S	155
10	Nugur-I	Indravati	S	160
11	Kotri	Kotri	S	70
11	Total	11 Nos. of Projects		1124

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

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

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 2025-26 subject to re-start of work in immediate future .

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 x110=220 MW) are 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 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)	Year of commissioning
MAHAGENCO								
1	BHIRA TAIL RACE	1	(2X40)	KUNDALIKA	WFR	RAIGAD	80	1987-1988
2	KOYNA DPH	1	(2X18)	KOYNA	EFR	SATARA	36	1980-1981
3	KOYNA-I&II	1	(4X70)+ (4X80)	KOYNA	EFR	PATAN	600	1962-1967
4	KOYNA-III	1	(4X80)	Water let out through ulestward units (St-I,II & IV)	EFR	RATNAGIRI	320	1975-1978
5	KOYNA-IV	1	(4X250)	KOYNA	EFR	SATARA	1000	1999-2000
6	TILLARI	1	(1X60)	TILLARI	WFR	KOLHAPUR	60	1986
7	VAITARNA (Vaitarna I)	1	(1X60)	VAITARNA	WFR	NASIK	60	1976
	SUB-TOTAL MAHAGENCO	7					2156	
MPPGCL								
8	PENCH	1	(2X80)	PENCH	EFR	CHINDWARA	160	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	1996
	SUB-TOTAL DLHP	1					34	
TATA POWER COMPANY (PVT.)								
10	BHIRA	1	(6X25)	NEELA & MULA	EFR	RAIGAD	150	1927-1949
11	BHIVPURI	1	(3X24) + (2X1.5)	ANDHRA	EFR	RAIGAD	75	1997-1999
12	KHOPOLI	1	(3X24)	INDRAYANI	EFR	RAIGAD	72	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 2025-26 Subject to re-start of work in immediate future.

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

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

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 Capacity (MW)	River	Basin	District	I.C. (MW)	Year of commissionin g
NHDC								
1	INDIRA SAGAR (NARMADA SAGAR)	1	(8X125)	NARMADA	CIR	KHANDWA	1000	2004-2005
2	OMKARESHWAR	1	(8X65)	NARMADA	CIR	KHANDWA	520	2007
	SUB-TOTAL NHDC	2					1520	
	TOTAL CENTRAL	2					1520	
MPPGCL								
3	BANSAGAR TONS-I (TONS)	1	(3X105)	TONS	GANGA	SATNA	315	1991-1992
4	BANSAGAR-II (BEEHAR)	1	(2X15)	TONS	GANGA	REWA	30	2002
5	BANSAGAR-III (BANSAGAR)	1	(3X20)	SONE	GANGA	SATNA	60	2000-2002
6	BARGI	1	(2X45)	NARMADA	CIR	JABALPUR	90	1988
7	GANDHI SAGAR	1	(5X23)	CHAMBAL	GANGA	MANDSAUR	115	1960-1966
8	MADHIKHERA	1	(3X20)	KALI SINDH	GANGA	SHIVPURI	60	2006-2007
9	RAJGHAT	1	(3X15)	BETWA	GANGA	ASHOK NAGAR	45	1999
	SUB-TOTAL MPPGCL	7					715	
9	TOTAL MP	9					2235	

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

Sl. No.	Name of Project	I. C. (MW)	District	River	Basin	Agency	Status & Likely Commissioning
1	Maheshwar (Pvt.) #	400	Khargone & Khandwa	Narmada	CIR	SMHPCL	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. 2023-24*
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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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	Total	100		

6. H. E. Projects yet to be allotted by the State for development:				
S.No.	Name of Project	River	Type	I.C. (MW)
1	Dhurwara	Betwa	R	28
2	Burhner	Burhner	S	28
3	Basania	Narmada	R	60
4	Hoshangabad (Jahanpur)	Narmada	S	75
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 examination and eight projects, namely Upper Sileru (9x150= 1350 MW), Kurukutti (1200 MW),Karrivalasa (1000 MW), Gandikota (1000 MW),Owk (800 MW),Somsila (900 MW), Chitravathi (500 MW) & Yerravaram (1200 MW) 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/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	Srisailem	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)	Year of commissioning
APGENCO							
1	LOWER SILERU	1	(4X115)	SILERU	KHAMMAM	460	1976-1978
2	NAGARJUNA SGR RBC & EXT. (NAGARJUNA SGR RBC)	1	(3X30)	KRISHNA	SATRASALA	90	1983-90
3	SRISAILAM	1	(7X110)	KRISHNA	MAHABUBNAGAR	770	1982-1987
4	UPPER SILERU-I&II (UPPER SILERU)	1	(4X60)	SILERU	VISHAKAPATNAM	240	1967-1995
5	NJ SAGAR TPD	1	(2X25)	KRISHNA	GUNTUR	50	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)	Likely Commissioning
1	Polavaram	Polavaram Project Authority	East & West Godavari	Godavari/ EFR	960	2024-26
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 : In addition to above, one pumped storage project, namely Pinnapuram (4x240+2x120 =1200 MW) is under examination and one project, namely Upper Sileru (9x150= 1350 MW) is under S&I .

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)
1	Balimela	Sileru	S	65
2	Tungbhadra HLC	Bhadra	R	32
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, two pumped storage projects, namely Sharavathy (8x250 =2000 MW) and Saundatti (4x252+2x126= 1260 MW) 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/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]	Shimsha	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)	Year of commissioning
KPCL								
1	ALMATTI	1	(5X55) +(1X15)	KRISHNA	EFR	BIJAPUR	290	2004-2005
2	GERUSOPPA (SHARAVATHY TAIL RACE) [SARAVATHY TAIL RACE]	1	(4X60)	SHARAVATHY	WFR	UTTARA KANNADA	240	2001-2002
3	GHAT PRABHA	1	(2X16)	GHATPRABHA	EFR	BELGAUM	32	1992
4	MAHATMA GANDHI JOG	1	(4X21.6) +(4X13.2)	SHARAVATHY	WFR	SHIMOGA	139.2	1949-1952
5	KADRA [Kalinadi I (Kadra)]	1	(3X50)	KALI	WFR	UTTARA KANNADA	150	1997-1999
6	KALINADI (NAGJHARI) [Kalinadi I (Nagjhari)]	1	6x 150	KALI	WFR	UTTARA KANNADA	900	1979-1984
7	KALINADI SUPA [Kalinadi I (Supa)]	1	(2X50)	KALI	WFR	UTTARA KANNADA	100	1985
8	KODASALI [Kalinadi I (Kadassali)]	1	(3X40)	KALI	WFR	UTTARA KANNADA	120	1998-1999
9	LINGNAMAKKI [Linganamakki]	1	(2X27.5)	SHARAVATHY	WFR	SHIMOGA	55	1979-1980
10	MUNIRABAD	1	(2X9) +(1X10)	TUNGABHADRA	EFR	KOPPAL	28	1962-1965
11	SHARAVATHY [Saravathi]	1	(10X103.5)	SHARAVATHY	WFR	SHIMOGA	1035	1965-1977
12	SIVASAMUNDRUM [Shivasamudram]	1	(4X6)+(6X3)	CAUVERY	EFR	MANDYA	42	1922-1934
13	VARAHI	1	(4X115)	VARAHI	WFR	UDUPI	460	1989-2009
14	BHADRA [Tungbhadra Dam PH]	1	(2x12)+(1x2)	BHADRA	EFR	CHICKMAGALUR	26	1965
	TOTAL KPCL	14					3617.2	

	APGENCO							
15	T B DAM * [Tungbhadra RBC]	1	(4X9)	TUNGABHADRA		BELLARI	36	1957-1964
16	HAMPI *	1	(4X9)	TUNGABHADRA	EFR	BELLARI	36	1958-1964
	SUB-TOTAL APGENCO	2					72	
16	TOTAL KARNATAKA	16					3689.2	

* Utilities are in Andhra Pradesh

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 (Bedti) 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)
1	Machchattu	Varahi	R	35
2	Netravathy	Netravathy	S	60
3	Sirpadi	Netravathy	R	38
4	Kumaradhari	Kumaradhari	S	49
5	Kalinadi II (Dandeli [Kalinadi I (Dandeli II)])	Kalinadi	R	60
6	Gangavali St.II [Gangavali (Sonda) St.II]	Gangavali	S	400
7	Tamankal [Narayanpur]	Krishna	R	70
8	Shivapur [Shivpur]	Tungabhadra	R	26
9	Krishnarajasagar	Cauvery	S	55
10	Shimsa [Shimsa PH-I]	Cauvery	R	31
11	Shimsa [Shimsa PH-II]	Shimsha	R	42
12	Arkavathy [Arkavathi]	Arkavathi	R	42
13	Jaldurg	Krishna	R	270
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)		4	290
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		30	3633
I	Projects in operation	14	1856.5
II	Projects under active construction	2	100
III	Projects held up due to Inter-State aspects	4	520
IV	Projects dropped due to Basin studies/ Other reasons	4	644
V	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
4	Sub Total		290	

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	Chalakuddi	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)	Year of commissioning
KSEB							
1	IDAMALAYAR	1	(2X37.5)	IDAMALAYAR	ERNAKULAM	75	1987
2	IDUKKI [Idukki I & II + Idukki - III]	1	(6X130)	PERIYAR	IDUKKI	780	1976-1986
3	KAKKAD	1	(2X25)	PAMBA	PATHANAMTHITTA	50	1999
4	KUTTIYADI [Kuttiyadi]	1	(3X25)	KUTTIYADI	KOZHIKODE	75	1972
5	KUTTIYADI EXTN . [Kuttiyadi]	1	(1X50)	KUTTIYADI	KOZHIKODE	50	2001
6	KUTTIYADI ADDN EXTN [Kuttiyadi]	1	(2X50)	KUTTIYADI	KOZHIKODE	100	2010
7	LOWER PERIYAR	1	(3X60)	PERIYAR	IDUKKI	180	1997
8	NERIAMANGLAM	1	(3X15)	MUTHIRAPUZHA	IDUKKI	45	1961-63
9	PALLIVASAL [Pallivasal Replacement]	1	(3X5) +(3X7.5)	MUTHIRAPUZHA	IDUKKI	37.5	1948-2001
10	PANNIAR	1	(2X15)	PANNIAR	IDUKKI	30	1963-2001
11	PORINGALKUTTU	1	(4X8)	CHALAKUDY	COIMBATORE	32	1957-1960
12	SABARIGIRI	1	(6X50)	PAMBA	PATHANAMTHITTA	300	1960-1967
13	SENGULAM	1	(4X12)	MUTHIRAPUZHA	IDUKKI	48	1954-2001
14	SHOLAYAR [Sholaiyar]	1	(3X18)	SHOLAYAR	COIMBATORE	54	1956-1968
14	TOTAL KSEB	14				1856.5	

* 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)	Likely Commissioning
1	Pallivasal	KSEB	Idukki	Mudirapuzha/ Baypore Periyar/ WFR	60	2022-23 # (Jan.'23)
2	Thottiyar	KSEB	Idukki	Thottiyar/ Baypore Periyar / WFR	40	2022-23 # (July.'22)
2	Total				100	

#Pallivasal and Thottiyar were under original Hydro Capacity programme for 2021-22 are likely to slip to 2022-23

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

Sl No.	Name of Project	Agency	District	River / Basin	I.C. (MW)	Status
1	Athirapally [Adirapally]	KSEB	Thrissur	Chalakkudy / WFR	163	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			Kandipuzha/ WFR	130	Environmental Issue
3	Puyankutty			Puyankutty/ WFR	285	Environmental Issue
4	Kuriakutty (Kuriakutty)			Kuriakutty/ WFR	66	Environmental Issue
4	Total				644	

5. 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*	Mananthavady 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.

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

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

*The capacity yet to be allotted by the State for development is different from arithmetic

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)	Suruliyar	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)	Year of commissioning
TANGEDCO								
1	ALIYAR [Upper Aliyar]	1	(1X60)	MASONAR Y DAM	WFR	COIMBATORE	60	1970
2	BHAVANI KATTALAI BARRAGE-I [Bhawani Kattalai]	1	(2X15)	CAUVERY	EFR	ERODE	30	2006
3	BHAVANI KATTALAI BARRAGE-II [Bhawani Kattalai]	1	(2X15)	CAUVERY	EFR	ERODE	30	2013
4	BHAVANI KATTALAI BARRAGE-III [Bhawani Kattalai]	1	(2X15)	CAUVERY	EFR	ERODE	30	2012
5	KODAYAR-I	1	(1X60)	KODAYAR	WFR	KANYAKUMARI	60	1970
6	KODAYAR-II	1	(1X40)	KODAYAR	WFR	KANYAKUMARI	40	1971
7	KUNDAH-I [Avalanche Em'ld (Kundah-I)]	1	(3X20)	AVLANCHE STREAM	EFR	NILGRIS	60	1960-1964
8	KUNDAH-II [Kundapallam (Kundah- II)]	1	(5X35)	KUNDAH	EFR	NILGRIS	175	1960-1965
9	KUNDAH-III [Pengumbahalla (Kundah-III)]	1	(3X60)	PENGUNBA HALLAH	EFR	COIMBATORE	180	1965-1978
10	KUNDAH-IV	1	(2X50)	BHAVANI	EFR	COIMBATORE	100	1966-1978
11	KUNDAH-V	1	(2X20)	BHAVANI	EFR	NILGRIS	40	1964-1988
12	LOWER METTUR-I [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	1988
13	LOWER METTUR-II [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	1988
14	LOWER METTUR-III [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	1987-1988
15	LOWER METTUR-IV [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	1988-1999
16	METTUR DAM [Mettur Dam PH]	1	(4X12.5)	CAUVERY	EFR	SALEM	50	1937-1946
17	METTUR TUNNEL [Mettur Tunnel PH]	1	(4X50)	CAUVERY	EFR	SALEM	200	1965-1966

18	MOYAR	1	(3X12)	MOYAR	EFR	NILGRIS	36	1952-1953
19	PAPANASAM	1	(4X8)	THAMBRAP ARANI	EFR	TIRUNELVELI	32	1944-1951
20	PARSON'S VALLEY	1	(1X30)	BHAVANI	EFR	NILGIRIS	30	2000
21	PERIYAR [Periyar Lake]	1	(3X42)+ (1X35)	PERIYAR	WFR	IDUKKI	161	1958-1965
22	PYKARA [Pykara (Singara)]	1	(3X7)+ (2X13.6)+ (1X11)	Glenmorgan Forebay dam	EFR	NILGRIS	59.2	1932-2005
23	PYKARA ULTMATE [Pykara (Ultimate)]	1	(3X50)	PYKARA	EFR	NILGRIS	150	2005
24	SARKARPATHY [Sarkarpathi]	1	(1X30)	PARABIKUL AM	WFR	KOZHIKODE	30	1966
25	SHOLAYAR I [Sholaiyar- I]	1	(2X35)	SHOLAYAR	WFR	COIMBATORE	70	1971
26	SURULIYAR [Surullar]	1	(1X35)	ERAVANGA LAR	EFR	TIRUNELVELI	35	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 2023-24 (Apr. 2023)] and two pumped storage projects, Kodayar (4x125= 500 MW) and Sillahalla St.-I (4x250=1000 MW) are under S&I .

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	Nelliathurai	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)
1	Nirar	Idamalayar	R	26
2	Paraliyar	Paraliyar	R	39
3	Lower Bhavani (Lower Bhawani)	Bhavani	S	34
4	Lower Moyar	Moyar	S	33
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)	Year of commissioning
TSGENCO							
1	PRIYADARSHNI JURALA (PRIYADARSHNI)	1	(6X39)	KRISHNA	MAHABOOB NAGAR	234	2008-2011
2	POCHAMPAD	1	(4X9)	GODAVARI	NIZAMABAD	36	1987-1988, 2010
3	NAGARJUNA SGR (NAGARJUNA SGR DAM PH)	1	(1X110)	KRISHNA		110	1978-85
4	NAGARJUNA SGR LBC	1	(2X30)	KRISHNA	GUNTUR	60	1983
5	LOWER JURALA	1	(6X40)	KRISHNA	WANPARTHY	240	2015-16
6	PULINCHINTHALA	1	(4X30)	KRISHNA	SURAPETA	120	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.

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)
1	Singareddi	Godavari	R	250
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)	YEAR OF COMMISSIONING
DVC							
1	PANCHET	1	(2X40)	DAMODAR	DHANBAD	80	1990
	SUB-TOTAL DVC	1				80	
JUUNL							
1	SUBERNREKHA -I	1	(1X65)	SUBERNAR EKHA	RANCHI	65	1977
2	SUBERNREKHA -II	1	(1X65)	SUBERNAR EKHA	RANCHI	65	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)
1	Serengada	N.Koel	R	37
2	Sankh-II (Upper Sankh St-II)	Sankh	R	55
3	Lower Sankh	Sankh	S	55
3	Total	3 Nos. of Schemes		147

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

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	2142.25
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, three pumped storage projects, namely Upper Indravati (4x150 =600 MW), Upper Kolab (2x160 =320 MW) and Balimela (2x250= 500 MW) 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	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)	YEAR OF COMMISSIONING
OHPC							
1	BALIMELA	1	(6X60)+ (2X75)	SILERU	MALKANGIRI	510	1973-1977, 2008
2	HIRAKUD (BURLA) [HIRAKUD ST- I]	1	(3X37.5) (2X49.5) +(2X32)	MAHANADI	SAMBALPUR	275.5	1956-1990
3	HIRAKUD (CHIPLIMA) [HIRAKUD ST- II]	1	(3X24)	MAHANADI	SAMBALPUR	72	1962-1964
4	RENGALI	1	(5X50)	BRAHMANI	ANGUL	250	1985-1992
5	UPPER INDRAVATI	1	(4X150)	INDRAVATI	KALAHANDI	600	1999-2001
6	UPPER KOLAB	1	(4X80)	KOLAB	KORAPUT	320	1988-1993
	TOTAL OHPC	6				2027.5	
APGENCO							
1	MACHKUND	1	(3X17)+ (3X21.25)	MACHKUND	KORAPUT	114.75	1959
	SUB-TOTAL APGENCO	1				114.75	
7	TOTAL ODISHA	7				2142.25	

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

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	Orissa	MP/Chhatisgarh/ Bihar/ Jharkhand/ Orissa / 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)
1	Bhimbund	Baitarni	S	29
2	Baljori	Baitarni	S	230
3	Lodani	Brahmani	S	42
4	Tikkarpara	Mahanadi	S	205
5	Lower Kolab	Kolab (Sabri)	S	375
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)	YEAR OF COMMISSIONING
NHPC							
1	RANGIT(Ligship)	1	(3X20)	RANGIT	GANGTOK	60	2000
2	TEESTA-V (Samdong)	1	(3X170)	TEESTA	EAST SIKKIM	510	2008
SUB-TOTAL NHPC		2				570	
STATE							
TEESTA URJA LTD. (TUL)							
3	TEESTA-III (Singhik)	1	(6X200)	TEESTA	NORTH SIKKIM	1200	2017
SUB-TOTAL TUL		1				1200	
PRIVATE							
GIPL (GATI INFRA PRIVATE LTD.)							
4	CHUZACHEN	1	(2*55)	RONGLI & RANGPO	EAST SIKKIM	110	2013
SNEHA KINETIC POWER PROJECTS PVT LTD (SKPPPL)							
5	DIKCHU	1	(2*48)		EAST & NORTH SIKKIM	96	2017
SHIGA ENERGY PVT LTD (SEPL)							
6	TASHIDING	1	(2*48.50)	RATHANG CHU		97	2017
DANS ENERGY PVT LTD. (DEPL)							
7	JORETHANG LOOP	1	(2*48)	RANGIT	SOUTH /WEST	96	2015
Madhya Bharat Pvt Company (MBPC)							
8	RONGNICHU	1	2*56.5	Rongnichu/ Teesta/Brahmaputra	EAST SIKKIM	113	2021
SUB-TOTAL PRIVATE		5				512	
8	TOTAL SIKKIM	8				2282	

* All projects are in Brahmaputra Basin

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

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River/ Basin	Likely Commissioning
1	Teesta St. VI	NHPC	South Sikkim	500	Teesta/ Brahmaputra	2023-24 (Mar.'24)
2	Rangit-IV	NHPC	West Sikkim	120	Rangit/ Teesta/ Brahmaputra	2024-25(May'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	Status & Likely Commissioning
1	Bhasmey	Gati Infrastructure	East Sikkim	51	Rangpo/ Teesta Brahmaputra	Works are stalled since Sept., 2016 due to funds constraints with developer. 2024-25*
2	Rangit-II	Sikkim Hydro	West Sikkim	66	Greater Rangit/ Teesta Brahmaputra	Works are stalled since December, 2017 due to funds constraints with developer. Project is in NCLT since 30.07.2020. 2024-25*
3	Panan	Himagiri	North Sikkim	300	Rangyongchu/ Teesta Brahmaputra	Issue of construction of bridge on Mantham Lake for accessibility of site is under discussion with the State Govt of Sikkim. 2025-26 *
3	Total			417		

* Subject to re-start of work in immediate future

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)	Date of CEA Concurrence	Status
1	Teesta St-IV (Mangan)	NHPC	North Sikkim	Teesta/ Brahamputra	520	13.05.10	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

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

Sl. No.	Name of Project	Basin/River	Agency	Original I.C. (MW)	Date of MOA	Remarks
1	Kalez khola	Kalez khola/ Rangit	CWC	52	12.2.2007	Due to objection raised by local people against Topographical Survey.
2	Suntaleytar	Rangpochu	Hindustan Electric Power Ltd.	40	LOI date 23.02.12	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)	Remarks
1	Lethang (Yoksam)	KHCHPL	96	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	

7. H.E. Projects yet to be allotted by the State for development:				
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	Chhota Pathing	Rongpo	R	55
12	Mana	G.Ranjit	R	37
13	Mamium	G.Ranjit	R	175
14	Gompa	G.Ranjit	R	46
15	Lower Lagyap	Rongpi	R	40
16	Teesta St-II	Teesta	R	480
16	Total			1914

Note: R –Run of the River

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)		2	203
Projects Identified in other State(s) but developed/being developed in this State #		1	60
Total		9	3092
I	Projects in operation	5	441.2
II	Projects under active construction	1	120
III	Projects on which S&I held up	1	71
IV	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
2	Sub Total		203	

2. H.E. Projects in Operation:

Sl.No.	Name of Project	Agency	District	River /Basin*	I. C.	Year of Commissioning
1	Jaldhaka (Jaldhaka-I)	WBSEDCL	KALIMPONG	Di chu, Ni chu & Bindu Khola River	36	1967- 72,2012
2	Rammam-II	WBSEDCL	DARJEELING	Rammam	50	1995-96
3	Teesta Low Dam-III	NHPC	DARJEELING	Teesta	132	2013-14
4	Maithon	DVC	WEST DHANBAD	Basakar	63.2	1957-58
5	Teesta Low Dam-IV (Teesta High Dam)	NHPC	DARJEELING	Teesta Kalikhola confluence	160	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)	Likely Commissioning
1	Rammam-III	NTPC	Darjeeling	Rammam/ Rangit/ Teesta /Brahmaputra	120	2022-23 (Nov'22)
1					120	

4. 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		

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

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Balason	Balason	R	33
2	Rammam-I	Rammam	R	70
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)		8	-1506
Change in Projects due to merging of projects (identified during reassessment study in 1978-87)		-2	-2612
Total		138	56836
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	3	1400
	(iv) Projects allotted for development on which S&I is held up/ yet to be taken up	32	8696
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*	47	16161.5

*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). 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-1	84	Held Up
17	Nalo	Nalo	635	Held Up
18	New Melling		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 (B). 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	Dihang	14685	Identified	1	Upper Siang I	Siang	6000	Yet to be
					2	Upper Siang II	Siang	3750	Yet to be
					3	Siyom (Middle Siang)	Siang	1000	Other issues
					4	Lower Siang	Siang	2700	Concurred
2	Hutong	Luhit	950	Identified	5	Hutong Stage I		750	Dropped
					6	Hutong-II		1200	Returned
3	Kalai	Luhit	2550	Identified	7	Kalai I	Lohit	1352	Returned
					8	Kalai II	Lohit	1200	Concurred
4	Demwe	Luhit	3765	Identified	9	Demwe Upper St-I	Lohit	270	S&I
					10	Demwe Upper St-II	Lohit	270	Yet to be
					11	Demwe Upper St-III	Lohit	202.5	Yet to be
					12	Demwe Lower	Lohit	1750	Concurred
4	Sub Total		21950		12			20444.5	
	Net Change in Numbers		8	Increase					
	Net Change in Capacity		-1505.5	Decrease					

1 (C). 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)	Year of commissioning
NEEPCO							
1	RANGANADI [Yazali Div.-II]	3	(3X135)	RANGANADI	LOWER SUBANSIRI	405	2002
2	PARE	2	(2X55)	BRAHAMPUTR A		110	2018
3	Kameng	4	(4x150)	Bichom & Tenga / Kameng	West Kameng	600	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	Likely Commissioning
1	Subansiri Lower [Subansiri Dam]	NHPC	L.Subansiri/ Dhemaji	2000	Subansiri	2022-24* (Aug.'23)
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

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	Status
1	Lower Siang	JAVL	East Siang	Siang	2700	16.02.10	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	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	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	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	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	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	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	NDSCPL	West Siang	Siang	1000	11.09.2013	EC & FC yet to be obtained by developer. \$
9	Kalai -II	Kalai PPL	Anjaw	Lohit	1200	27.3.2015	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	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	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	EC accorded on 19.05.2015. FC-I accorded on 15.04.2015. FC-II: 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.
13	Attunli	AHEPCL	Dibang Valley	Tangon	680	15.03.18	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.

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.

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

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.

As per Cumulative Impact Assessment recommendations for Siang basin, parameter of Hironng 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 Hironng 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 Hironng HEP to be pursued by NEEPCO.

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.

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
MOP vide letter dated 22.12.2021 indicated that Etalin HEP to be pursued by SJVNL.

S- 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.

* Part of Passighat (as per re-assessment) (For Sr. No 2 & 18)

** Part of Demwe (as per re-assessment) (For Sr. No 7)

*** Part of Kalai (as per re-assessment) (For Sr. No 12)

5. 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	Ranganadi St-II	NEEPCO	130	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	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	The DPR was returned on 5.12 as the Project is now to be developed as storage Project. Hydrology & PPS cleared on 9.5.2011 & 27.3.2012.
4	Kalai-I	MFIPL	1352	Returned on 05/12 and STC decided that M/S MFIPL should carry out the detailed investigation for the revised DPR as per CEA's letter dt 24.5.2012.
5	Pemashelphu HEP	MHPL	90	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	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	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	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	Returned on 29.07.2013 due to inadequate investigation and in proper layout etc.
10	Nyukcharong Chu	SNCPCCL	96	Returned on 04/15 due to non-submission of investigation suggested by GSI.
11	Subansiri Middle (Kamla)	KHEPCL	1800	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	
13	Tagurshit		74	Returned in 06/19.
13	Total		5323	

* Part of Hutong (as per re-assessment) (For Sr. No 3)

** Part of Kalai (as per re-assessment) (For Sr. No 4)

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

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

Sl. No.	Name of Project	Basin/River	Agency for DPR	Original I.C. (MW)	Date of MOA	Target date of Preparation of DPR
1	Anjaw	Lohit	Athena Energy Ventures Ltd.	270	09.07.2007	June'22
2	Demwe UpperSt-I	Lohit	Lohit Urja Pvt Ltd	270	09.07.2007	June'22
3	Niare	Subansiri	Andra Power Private Limited	860		Dec'22
3	Total			1400		

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	Status
1	Papu	90	CESC Ltd.	16.05.2012	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 vide letter dtd 29/12/16. Re-survey and DPR submission was targetted to be completed in May 2019, which is still awaited.
2	Kameng Dam	420	KSK Energy Ventures Ltd.	25.01.2007	MoEF did not issue ToR due to proximity to Pakke Tiger Reserve . All other possible alternative site(s) are in proximity of tiger reserve due to which the project has been dropped . The Developer had already written for refund of upfront premium for surrendering the project.
3	Emra-I	275	Athena Energy Ventures Pvt. Ltd.	02.02.2008	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.
4	Rho	93	SEW Energy	2.3.2009	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.
5	Dardu	60	KVK Energy & Infrastructure Ltd.	26.12.2007	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.
6	Naba	1000	Abir Infrastructre Pvt. Ltd.	21.06.2010	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.

7	Dengser	552	Coastal Infrastructre Pvt. Ltd.	26.04.2011	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.
8	Emra-II	390	Athena Energy Ventures Ltd.	02.02.2009	No road connectivity to project site. Local issues, communication problems. Intent to Terminate under process since 25/07/2018.
9	Yamne-I	111	S.S. Yamne Power Pvt Ltd	05.03.2009	First consultation meeting held on 30.07.2014. Local and law and order. Problems. Under process for termination since 18/05/18
10	Dinchang	252	KSK Energy Ventures Ltd	11.9.2007	Project under process for termination by GoAP since 13.03.2018.
11	Ithun-I	84	JVKIL Consortium	29.8.2008	Non-operationalization of Hunli-Desali road. Very slow progress, hence under process for Intent to Terminate by GoAP since 19/07/2018
12	Subansiri Upper	1800	KSK Energy Ventures Ltd.	18.03.2010	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.
13	Kurung [Kurung Dam - I + Kurung Dam-II]	330	NEEPCO	27.01.2015	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 cluases of MoA between NEEPCO and GoAP
14	Chomi	80	Adveta Power	14.2.2013	MoA to be renewed.
15	Chela	75	Adveta Power	14.2.2013	MoA to be renewed.
16	Para	45	Coastal Projects Pvt. Ltd.	19.11.2008	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.
17	Tidding-I	84	Sai Krishnodaya Ind. (P) Ltd.	26.02.2009	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	Tidding-II	75	Sai Krishnodaya Ind. (P) Ltd.	26.02.2009	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.
19	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	S&I held up due to inaccessibility of the project site.
20	Pauk	145	Velcan Energy Pvt Ltd	30.06.2007 (rev MOA-31.07.09)	S&I held up due to land disputes between clans and law & order problem.
21	Pango (Minniying)	96	Meenakshi Power Ltd.	27.08.2010	S&I held up due to lack of infrastructure, poor communication netwrok and remoteness of site.
22	Sippi	96	Meenakshi Power Ltd.	20.7.2011	S&I held up due to lack of infrastructure, poor communication netwrok and remoteness of site.

23	Jidu (Yangsang)	92	Meenakshi Power Ltd.	20.7.2011	S&I held up due to lack of infrastructure, poor communication network and remoteness of site.
24	Pachuk-II	61	Energy development Co. Ltd	27.08.2010	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
25	Tsa Chu - II	67	Energy development Co. Ltd	27.08.2010	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
26	Pachuk-II Lower [Kapak Leyak]	51	Energy development Co. Ltd	27.8.2010	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
27	Marijingla	39	Energy development Co. Ltd	12.1.2008 (Amended on 27.8.2010)	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
28	Marijingla Lower	37	Energy development Co. Ltd	27.8.2010	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
29	Rego	97	Greenko Energies Ltd.	25.09.2012	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
30	Rapum	66	Greenko Energies Ltd.	27.12.2007	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
31	Panyor	80	Rajratna Energy Holding Pvt. Ltd.	25.02.2009	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
32	Lower Yamne St-I (Jaru)	75	Yamne Power Pvt. Ltd	29.11.2009	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
32	Total	8696			

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

Sl. No.	Name of Project	L.C.(MW)	River	Basin	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 Hiron HEP will remain a free flowing river stretch.
2	Hirit Korong	42	Siang	Brahmaputra	Fish species like Mahseer (<i>Tor paitora</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 Sapse 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	Tanmu	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 Mahaseer and Snow Trout 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 Head 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 (Malinye)	335	Dibang	Brahmaputra	Falls within Dibang Wildlife Sanctuary.
19	Tsu Chu-I	43	Tawang	Brahmaputra	
20	Thingbu Chu	60	Tawang	Brahmaputra	
21	Nyamjang Chhu	780	Tawang	Brahmaputra	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 Bihwara 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	L.C.(MW)	River	Date of CEA Concurrence	Remarks
1	Tato-II	700		22.05.2012	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	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	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	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 GoAP letter dated 23.12.2019. NEEPCO vide letter dated 23.08.2021 to HPA informed that it has signed MoA with GoAP on 14.08.2021 for Nafra HEP. Subsequently, HPA Division vide letter dated 31.08.2021 requested NEEPCO to submit allotment letter of GoAP 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 Nafra HEP will be pursued by NEEPCO. NEEPCO vide letter dated 10.01.2022 submitted updated hydrology chapter for vetting by CWC.
4	Total	1940			

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

Sl.No.	Name of Project	River	Type	I.C.(MW)	Remarks
1	Siang Upper St. I	Siang	S	6000	
2	Siang Upper St. II	Siang	S	3750	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 vide letter dtd 29/12/16. Re-survey and DPR submission was targetted to be completed in May 2019,which is still awaited.
3	Agoline	Dibang	R	235	
4	Elango	Ahi	R	180	
5	Rigong	Rigong	R	130	
6	Mirak	Sigong	R	160	
7	Hegio	Kurung	R	250	
8	Doimukh [Dudmukh Storage]	Dikrong	S	170	The project has been surrendered by developer to the State Govt.
9	Kimi	Bichom	R	535	
10	Chanda	Kameng	R	110	
11	Pengging	Yamne	R	60	
12	Milli	Kurung	R	75	
13	Sape	Kurung	R	38	
14	Nyepin	Payam	R	32	
15	Hiya	Payam	R	41	
16	Kamla (Tamen)	Kamala	R	175	
17	Turu (Par)	Dikrong	R	65	
18	Yazali Storage	Ranga	S	95	
19	Tago-I	Yarjap	R	55	
20	Tenga	Tenga	S	275	

21	Rebby	Kameng	R	30	
22	Satuk	Pachuk	R	47	
23	Lachung	Pachi	R	41	
24	Phanchung	Pachi	R	90	
25	Utung	Bichom	R	110	
26	Khuitam	Digen	R	29	
27	But	Digen	R	26	
28	Mathithing	Digen	R	40	
29	Pichang	Kuru	S	31	
30	Tarang Warang	Pacha	R	65	
31	Sepla	Pacha	R	46	
32	Yangman Storage	Burhi Dihing	S	60	
33	Tirap (Tipang)	Tirap	S	80	
34	Jameri	Tenga	R	60	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to KSK Energy Ventures
35	Meyong	Timkong Rong	R	38	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Patel Engineering Ltd.
36	Gongri #	Gongri	R	144	State Govt. terminated the agreement with developer for execution of Gongri project which was earlier allotted to Patel Engineering Ltd. from under construction stage.
37	Badao	Kameng	R	66	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Coastal Projects Pvt. Ltd.
38	Amulin	Mathun	R	420	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Reliance Power Ltd.
39	Emini	Mathun	R	500	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Reliance Power Ltd.
40	Mihumdon	Dri	R	400	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Reliance Power Ltd.

41	Digin	Sangti	R	46	
42	Lower Yamne St-II (Yapin)	Yamne	R	87	
43	Nalo		R	635	State Govt. vide their letter dated 09.07.21 has informed that project has been terminated.
44	New Melling		R	90	State Govt. vide their letter dated 09.07.21 has informed that project has been terminated.
45	Tsa Chu-I Lower		R	77	State Govt. vide their letter dated 09.07.21 has informed that project has been terminated.
46	Demwe Upper St-II			270	
47	Demwe Upper St-III			202.5	
47	Total	47 Nos. of Projects		16161.5	

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

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)	YEAR OF COMMISSIONING
NEEPCO								
1	KOPILI [Kopili-II]	1	4	(4X50)	KOPILI	DIMA HASAO	200	1988
2	KHONDONG [Kopili-I]	1	2	(2X25)	KOPILI	DIMA HASAO	50	1984
	SUB-TOTAL NEEPCO	2	6				250	
APGCL								
3	KARBI LANGPI [Lower Borpani]	1	2	(2X50)	BORPANI	KARBI ANGLONG	100	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:

SI No.	Name of Project	Agency	District	River / Basin*	I.C.(MW)	River	Likely Commissioning
1	Lower Kopili	APGCL	Karbi Anglong & Dima Hasao	Kopili / Brahmaputra	120	Kopili	2024-25(Jun'24)
1	Total				120		

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)
1	Dilli Stor.	Disang	S	33
2	Jamuna Dam P/H	Jamuna	S	28
3	Diyung Dam P/H	Diyung	S	47
4	Langey	Borpani	R	37
5	Amring	Amring	S	40
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 concurred by CEA and yet to be taken up for construction	1	66
III	Projects dropped due to Basin studies/ Other reasons	1	1500
IV	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	Year of Commissioning
NHPC						
1	Loktak	NHPC	105	Loktak Lake/ Brahmaputra	Churachandpur	1983
1	Total		105			

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

Sl No	Name of Project	Agency	River/ Basin	District	I.C. (MW)	Date of concurrence	Status
1	Loktak D/S	LDHCL	Leimatak/ Brahmaputra	Tamenglong	66	4.11.2016 (concurrence meeting date)	EC accorded on 16.01.2013. FC-I accorded on 03.03.2011 & FC-II accorded on 22.12.2014. #
1	Total				66		

M/s. LDHCL informed the project could not take off due to delay in signing of PPA by State Govt. As per MoU executed between Govt. of Manipur and NHPC Ltd., Govt. of Manipur (GoM) was to purchase entire power from the project. PPA to purchase entire power has been signed on 31.08.2020 between LDHCL and Govt. of Manipur.

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.

Land acquisition is yet to start awaiting for signing of PPA.

4. 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.
1	Total	1500			

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

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Laniye-II	Laniye	R	27
2	Laniye-I	Laniye	S	34
3	Khongnem Chakha-II	Barak	S	90
4	Khongnem Chakha-III	Barak	R	48
5	Nungnag (Nungnang)	Irang	S	70
6	Nunglieban (Nungliban)	Leimatek	S	85
7	Khunou	Leimatek	R	115
8	Thinghat	Tuivai	S	41
9	Sinjal	Tuivai	S	39
10	Bungpulong	Tuivai	S	80
11	Irang	Irang	S	75
12	Pabaram (Pabaram Stor.)	Barak	S	232
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
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*	18	1312	

*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)	Year of commissioning
MePGCL							
1	KYRDEMKULAI [Uiam Umtru-III]	1	(2X30)	Tail water of Uiam stage-II & Umtru river	RI-BHOI	60	1979
2	UMIAM ST-I	1	(4X9)	UMIAM	RI-BHOI	36	1965
3	NEW UMTRU	1	(2X20)	UMTRU	RI-BHOI	40	2017
4	UMIAM ST-IV	1	(2X30)	Tail water of Stage-III PH & own catchment	RI-BHOI	60	1992
5	MYNTDU ST-I	1	(3X42)	MYNTDU	JAINTIA HILLS	126	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	Status
1	Wah Uiam Satge-III (Mawphu Stage-II)	NEEPCO		/Brahmaputra	85	26.07.2021	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.

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

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

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

Sl. No.	Name of Project	Basin /River	Agency	I.C. (MW)	Date of MOA	Target date of Preparation of DPR
1	Myntdu Leshka st-II	Myntdu	MePGCL	210	20.4.12	Mar'22
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	Status
1	Kynshi-II	450	GoMe & Jaiprakash Power Venture Ltd. (JV)	11.12.2007	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	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			

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)
1	Umlamphang	Umiam	R	28
2	Umiam Umtru-V	Umiam	R	27
3	Umiam Umtru-VI	Umiam	S	145
4	Simsang Dam P.H.	Someshri	S	65
5	Sushen	Myntdu	R	150
6	Umjaut	Umjaut	R	85
7	Umduna (Umduma)	Umtrew	R	95
8	Mawhu (Manhu)	Umtru	R	90
9	Umngi Stage-I (Umngi Storage)	Umngi	S	35
10	Rangmaw	Umngi	R	42
11	Nongkolait	Umngi	R	180
12	Nongnam	Umngi	R	36
13	Mawpat	Umngi	R	55
14	Nangmawlar (Nongmawlar)	Kynshi	R	29
15	Mawsyrpat	Kynshi	R	45
16	Mawthaba	Kynshi	S	70
17	Mawblei Storage	Kynshi	S	100
18	Amagam Storage	Rongdi	S	35
18	Total	18 Nos. of Projects		1312

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)	Year of commissioning
NEEPCO							
1	TUIRIAL [Sonai]	1	(2X30)	TUIRIAL/ BRAHAMPUTRA	KOLASIB	60	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	Agency	District	River / Basin	I.C. (MW)	Date of CEA	Status
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	Remarks
1	Kolodyne St-II	460	Kolodyne	Brahmaputra	Forest proposal submitted to State Govt. on 20.12.2010. The project is likely to be drooped 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)
1	Lungleng (Lunglang Stor.)	Tyao	S	690
2	Boinu (Boinu Stor.)	Kaldan	S	635
3	Kaldan (Kaldan Stor.)	Kaldan	S	545
4	Bhairabi	Dhaleshwari	S	90
5	Mat	Mat	S	90
6	Deh	Deh	S	26
6	Total	6 Nos. of Projects		2076

Note: S- Storage

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)	Year of commissioning
NEEPCO							
1	DOYANG (Doyang-V)	1	(3X25)	DOYANG / Brahamputra	WOKHA	75	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	Status
1	Dikhu (Dikhu Lift Dam)	NMPPL	Longleng	Dikhu and Yangnyu / Brahamputra	186	31.03.2014	EC yet to be obtained by developer. TOR issued on 27/12/2018. FC not applicable as forest land is not involved.#
1	Total				186		

EIA/EMP studies are in progress and are likely to be completed soon. Consent of PPA as per CERC Tariff is obtained. Govt. of Nagaland has forwarded PPA tariff calculations for the approval of Nagaland Regulatory Commission.

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

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