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)
Projects		o Power Potential as per Reassessment Study from Hydroelectric city above 25 MW)	67	18470
		ied after Reassessment Study from Hydroelectric Projects city above 25 MW)	17	2253
	identified belo	ow 25 MW capacity in Reassessment Study and developed y	2	240
		e to splitting of projects sessment study in 1978-87)	2	-41
_	-	e to merging of projects sessment study in 1978-87)	-4	-1290
		Total	84	19632
I	Projects in o	pperation	29	10263
II A	Projects und	ler active construction	7	1966
II B	Projects on	which construction is held up	1	44
III	Projects allo	otted by States for development		
	(i)	Projects concurred by CEA and yet to be taken up for construction	5	1319
	(ii)	Projects under Examination in CEA	1	456
	(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 dro	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 To	otal	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	In Operation	Holi - 13 MW
2	Sub To	otal	240		

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

		Before Splitti	ng		After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	S1.No.	Name of Project	River	I.C. (MW)	Status
1	Bhakra Nangal	Cratlei	1395	Identified	1	Bhakra Left	Sutlej	612	In Operation
1	bliakra Naligai	Sutlej	1393	Identified		Bhakra Right	Sutlej	785	In Operation
2	Luhri	Sutlej	425	Identified	3	Luhri St. I	Sutlej	210	Under Active Construction
					4	Luhri St. II	Sutlej	172	S&I
2	Sub Total		1820		4			1779	
	Net Change in Numbers		2	Increase					
	Net Change in Capacity		-41	Decrease					

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

		Before Mergir	ng		After Merging				
Sl.No.	Name of Project	River	I.C. (MW)	Status	S1.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	1	Allain Dunangan	Allaili Nallail	192	In Operation
3	Khab-I	Sutlej	1640	Identified	2	Khab	Sutlej	636	Held Up
4	Khab-II	Sutlej	425	Identified		Kiiab	Suite		
5	Jangi Thopan	Sutlej	410	Identified	3	Jungi Thopan Powari	Sutlej	804	S&I
6	Thopan Powari	Sutlej	650	Identified	3		Suitej		5001
7	Sainj (Parbati-III)	Sainj	215	Identified	4	Parbati-III	Sainj	520	In Operation
8	Sainj-IV	Sainj	27	Identified	7	Parbau-III	Samj	520	In Operation
8	Sub Total		3442		4	Sub Total		2152	
	Net Change in Numbers		-4	Decrease					
	Net Change in Capacity		-1290	Decrease					

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

	Name of Project	Agency	District	River	Basin	I.C. (MW)	Type (R/S/R(P))	Likely Commissioning
1	Parbati StII (Parbati -II)	NHPC	Kullu	Parbati/Beas	Indus	800	R	2023-24 (Sept'23)
2	Uhl- III	Beas Valley Power Corp. Ltd. (BVPC)	Mandi	Uhl/Beas	Indus	100	R	2023-24 (Dec'23)
3	Tidong-I	M/s NSL Tidong	Kinnaur	Tidong/Satluj	Indus	100	R	2022-24 (April'23)
4	Shontong Karcham	HPPCL	Kinnaur	Satluj	Indus	450	R	2024-25 (Mar.'25)
5	Kutehr	JSW Energy (Kutehr) Power Ltd. (JSWEPL)	Chamba	Ravi	Indus	240	R	2025-26 (Nov'25)
6	Luhri St.I	SJVNL	Shimla/Kull u	Satluj	Indus	210	R	2025-26 (Jan'26)
7	Dhaulasidh	SJVNL	Hamirpur/ Kangra	Beas	Indus	66	R	2025-26 (May'25)
7		Т	Cotal	1966				

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

	Name of Project	Agency	District	River	Basin	I.C. (MW)	Type (R/S/R(P))	Status & Likely Commissioning
1	Tangu Romai	Tangu Romai Power Generation	Shimla	Pabbar/Tons/ Yamuna	Ganga	44	R	Works are on hold since Aug 2016 due to fund constraints with developer.*
1		Т	otal	44				

^{*} Subject to re-start of work in immediate future

2. H.E. Projects in Operation:

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

					1				
	PSPCL								
20	SHANAN (Uhl at Joginder Nagar)	1	5	(1X50)+ (4X15)	UHL & Lamba Dug River	MANDI	110	R(P)	1932-1982
	TOTAL PSPCL	1	5				110		
	TOTAL STATE SECTOR	8	25				888		
	PRIVATE SECTOR								
	MPCL								
21	MALANA	1	2	(2X43)	MALANA	KULLU	86	R(P)	2001
	TOTAL MPCL	1	2				86		
	GBHPPL								
22	BUDHIL	1	2	(2X35)	RAVI	CHAMBA	70	R(P)	2012
	TOTAL GBHPPL	1	2				70		
	EPPL								
23	MALANA-II	1	2	(2X50)	MALANA	KULLU	100	R(P)	2011-12
	TOTAL EPPL	1	2				100		
	IA ENERGY								
24	CHANJU-I	1	3	(3X12)	RAVI	CHAMBA	36	R(P)	2017
	TOTAL IA ENERGY	1	3				36		
	ALLAIN DUHANGAN (ALLAIN NALLAH & DUHANGAN)	1	2	(2X96)	ALLAIN NALLAH		192	R(P)	2010-11
	TOTAL ADHPL	1	2				192		
	JSWHEL								
26	BASPA (BASPA-II)	1	3	(3X100)	BASPA	KINNAUR	300	R(P)	2003
27	KARCHAM WANGTOO	1	4	(4X261.25)	SATLAJ	KINNAUR	1045	R(P)	2011 (1000 MW
	TOTAL JSWHEL	2	7				1345		
	HSPPL								•
28	Sorang	1	2	2x50	Sorang	Kinnaur	100	R	2021 (100 MW)
	GMR BAJOLI HOLI HYDRO POWER PVT. LTD.								
29	Bajoli Holi	1	3	3x60	Ravi	CHAMBA	180	R	2022
	TOTAL PVT	9	23				2109		
29	TOTAL HP	29	102				10263		

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

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

Sl. No.	Name of Project	Agency	River	District	I.C. (MW)	Date of CEA Concurrence	Type (R/S/R(P))	Status
1	Miyar (Udaipur)	NTPC	Chenab /Miyar Nallah	Lahul & Spiti	120	07.02.2013		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 accorded by MoEF&CC on 04.02.2022. FC-I accorded by MoEF&CC on 22.12.2021.FC-II clearance is awaited. Compliance report of FC-1 submitted to MoEF&CC on 11.02.2022. ##
3	Chhatru	DSIL			126	15.01.15	R(P)	EC recommended by EAC on 24.02.15, Letter will be issued after FC-I. FC-I & FC-II yet to be obtained. ###
4	Thana Plaun	HPPCL			191	07.09.2021	R cum S	EC Cleared. FC yet to be obtained ####
5	Dugar	NHPC			500	26.04.22	R(P)	Both EC and FC are yet to be obtained.
5	5 Total				1319			

Note: All projects are in Indus basin

FRA compliance under process.

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

Observations raised by MoEF&CC on FRA and CA area on 08.03.2022. Reply to observation on CA scheme submitted by SJVN limited on 30.03.2022. Public meeting held on 24.04.2022 and 28.04.2022 for FRA issue.

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. Recommended by PIB on 27.01.2022. Investment approval is under process.

NIT for EPC contract package (Civil & HM works) issued on 20.04.2021. Price Bid opened on 21.02.2022. Approval of Award of works is in process.

###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-ImplementationAgreement (PIA) signed on 15.2.2008 and further forfeited the upfront moneyof 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 regarding upfront money. 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 adherance to the condition of Cumulative EIA study of Beas Basisn.

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 notofication dated 16.12.2020.

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

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

Sl. No.	Name of Project	Sector	I.C. (MW)	Agency	Type (R/S/R(P))	Month of receipt
1	Reoli Dugli	Central	456	SJVN	R(P)	Jan' 22
1	Total		456			

${\bf 6.} \quad \ \ \, \textbf{H.E. Projects Returned to Project Authorities for re-submission after compliance of observations:}$

Sl. No.	Name of Project	Agency	I.C. (MW)	Type (R/S/R(P))	Reason of Return
	Ravi Basin				
1	Seli SHPCL		400	R(P)	
1	Tot	al	400		

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

Sl. No.	Name of Project	Basin*/River	Agency for DPR	I.C. (MW)	Type (R/S/R(P))	Date of MoA	Target date of Preparation of DPR
1	Luhri StII (Luhri)	Satluj	SJVNL	172	R	25.09.2019	Sept'24
2	Jangi Thopan Powari	Satluj	SJVNL	804	R	25.09.2019	June'23
3	Purthi	Chenab	SJVNL	232	R	25.09.2019	Jan'23
4	Bardang	Chenab	SJVNL	175	R	25.09.2019	Mar'23
5	Sach khas	Chenab	SJVNL	288	R	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 Allotment/ MoA	s	tatus	
	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 Downstrea 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 I and considering the virgin stretch of river as per MoEF&CC guidelines.		tream 017. ng ge RoR
2	Sumte Kothang (Thibda)	130	Reliance Power Ltd.	31.12.2012	S&I held up due to oppose Project stands terr	sition from locals and minated on 28.07.201	
3	Lara Sumta	104	Reliance Power Ltd.	31.12.2012	S&I held up due to oppose Project stands terr	sition from locals and minated on 28.07.201	
4	Tidong-II	60	Tidong Hydro Power Ltd.	20.01.2012	S&I is held up due to local progress in the S&I activit time.		
	Sub Total	930					
	Chenab Basin						
5	Gyspa Dam (Gyspa)	300	HPPCL	22.09.2009	S&I held up due to sustain people.	ed opposition from lo	cal
	Sub Total	300					
	Beas Basin						
6	Nakhtan (Parbati-I)	460	HPPCL	22.09.2009	Request of HPPCL for monitoring of Nakthan HEP to be put on hold received on 31.12.18 on account of CEI study of Beas Basin & Hearing of court case on regular basis.		of CEIA
	Sub-Total	460					
6	Total	1690					

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

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

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

Sl.No.	Name of Project	River	Туре	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 P	1707	

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

Status of Large Hydro Power Development in Jammu and Kashmir

			Nos.	Capacity (MW)
Reasses	ssment Stu	Hydro Power Potential as per addy from Hydroelectric Projects capacity above 25 MW)	32	11567
Hydroe	electric Pro	entified after Reassessment Study from pjects capacity above 25 MW)	4	374.5
		ts due to splitting of projects g reassessment study in 1978-87)	4	40
_	ssment Stu	above 25 MW capacity in ady but developed below 25 MW	-3	-200
		Total	37	11781.5
I	Project	s in operation	10	3360
II A	Project	s under active construction	4	2511.5
II B	Project	s on which construction is held up	1	48
III	Project	s 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		s dropped as per Reconciliation Study A in 2014	4	1030
V		s yet to be allotted by the State for pment*	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	Chakothi	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 Proj	ects	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	Ganderwal Jhelum/Sindh		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 To	otal	374.5	

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

		Before Splittin	ıg		After Splitting				
Sl.No.	Name of Project	River	I.C. (MW) Status		Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Paglibar	Chenab	750	Identified	1	Baglihar	Chenab	450	In Operation
1	Baglihar	Chenab	750	identified	2	Baglihar II	Chenab	450	In Operation
					3	Uri I	Jhelum	480	In Operation
2	Uri	Jhelum	600	Identified	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
3	Dumasu	Chenab	1120	identified	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	Туре	I.C. (MW)	Status
1	Dunadi	Jammu & Kashmir	Kagunegarh	R	60	In Operation as Ranjala Dunadi (15 MW) As per reconciliation study 2014
2	Upper Sindh-I	Jammu & Kashmir	Sind	R	65	In Operation in 22.60 MW
3	Ganderbal	Jammu & Kashmir	Sind	R	75	In Operation in 15 MW
3	Total				200	

2. H.E. Projects in Operation:

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

^{*} ALL PROJECTS ARE IN INDUS BASIN.

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

Sl.No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	Type (R/S/R(P))	Likely Commissioning
1	Pakal Dul	CVPPL	Kishtwar	1000	Marusadar/ Chenab	Indus	S	2025-26 (July'25)
2	Parnai	JKSPDC	Poonch	37.5	Jhelum	Indus	R	2023-24 (Dec.'23)
3	Kiru	CVPPL	Kishtwar	624	Chenab	Indus	R	2024-25 (Aug.'24)
4	Ratle	RHEPPL / NHPC	Kishtwar	850.00	Chenab	Indus	R(P)	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	Type (R/S/R(P))	Status & Likely Commissioning
1	Lower Kalnai	JKSPDC	Kishtwar	48	Chenab	Indus	R	Works on all fronts at Dam and Power House site are stalled since the contract has been terminated by JK Govt. order no. 115-PDD of 2019 dated 08.06.2019.**
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	Type (R/S/R(P))	Status
1	New Ganderwal	JKSPC	Jhelum/Sindh	Ganderwal	93	10.06.14	R(P)	EC accorded on 27.9.13 & FC accorded on 02.04.2012. #
2	Kwar	CVPPL	Chenab	Kishtwar	540	23.02.17	R(P)	EC accorded on 10.04.17. FC accorded on 08.08.14. ##
3	Kirthai-II (Naunut)	CVPPL	Chandrabhaga /Chenab	Kishtwar	930	14.06.2019	R(P)	EC recommended by MoEF&CC on 15.04.2021. FC yet to be obtained by developer ###
4	Sawalkote	NHPC	Chenab	Ramban & Udhampur	1856	18.04.18	R(P)	EC recommended by EAC in its meeting dated 31.01.2017. Formal letter will be issued after FC-I. (MoEF&CC delisted EC for the project on 04.08.2017 and further relisted on 24.01.2022). FC yet to be obtained. ####
4	4 Total				3419			

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

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

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

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

Survey under process. The projet 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. Proposal for revalidation of concurrence for further two years ie. upto 13.06.2024 received in CEA on 10.03.2022. NOC from appropriate Govt for extension of validity of appraisal is awaited.

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

5. 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)	Type (R/S/R(P))	Month of Return
1	Kirthai -I (Sho)	JKSPDC	390	R(P)	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)	Type (R/S/R(P))	Date of MoA	Target date pf preparation of DPR
1	Uri-I (Stage-II)	Indus/ Jhelum	NHPC	240	R	03.01.2021	Jun-22
2	Dulhasti St-II	Indus/ Chenab	NHPC	260	R	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	
2	Chinari	Jhelam	R	475	Project located in POK. Hence dropped
3	Hatian	Jhelam	R	215	r
4	Gangbal	nngbal 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 I	1332	

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

Status of Large Hydro Power Development in Ladakh

		Nos.	Capacity (MW)
Reasses	ed Large Hydro Power Potential as per ssment Study from Hydroelectric Projects ts having capacity above 25 MW)	23	2046
Hydroe	Project Identified after Reassessment Study from lectric Projects is having capacity above 25 MW)	1	44
	Total	24	2090
Ι	Projects in operation	2	89
П	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 1	Projects	2090

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

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

2. H.E. Projects in Operation:

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

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

Sl.No.	Name of Project	River	Type	I.C. (MW)
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. o	of Projects	1866

Status of Large Hydro Power Development in Punjab

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

^{*}The capacity yet to be allotted by the State for development is different from arithmetic calculation from the potential accessed due to change in capacity of the projects, addition of projects, etc.

1 (A). Identified Projects during Reassessment study:

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

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

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Ganguwal	Satluj	77.65	In Operation
2	SYL		50	Inter-State
3	Kotla	Satluj	77.65	In Operation
3	Sub To	otal	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	Sutlej	134	Identified	1	Anandpur Sahib I	Sutlej	67	In Operation	
1	& II	Sullej	134	identified	2	Anandpur Sahib II	Sutlej	67	In Operation	
				3	Mukerian I	Beas	45	In Operation		
2		D	207	Identified	4	Mukerian II	Beas	45	In Operation	
2	Mukerian Canal	Beas	207		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		O	No Change							

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

Sl. No.	Naome of Project	State	River	Туре	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*	I DISTRICT		Type (R/S/R(P))	YEAR OF COMMISSIONING
	PSPCL							
1	ANANDPUR SAHIB-I [Anadpur Sahib, Ph-I & II]	1	(2X33.5)	AHC (CANAL)	RUPNAGAR	67	R	1985
2	ANANDPUR SAHIB-II [Anadpur Sahib, Ph-I & II]	1	(2X33.5)	AHC (CANAL)	RUPNAGAR	67	R	1985
3	MUKERIAN-I [Mukerian Canal]	1	(3X15)	TAIL WATER OF PONG DAM	HOSHIARPUR	45	R	1983
4	MUKERIAN-II [Mukerian Canal]	1	(3X15)	TAIL WATER OF PONG DAM	HOSHIARPUR	45	R	1988-89
5	MUKERIAN-III [Mukerian Canal]	1	(3X19.5)	TAIL WATER OF PONG DAM	HOSHIARPUR	58.5	R	1989
6	MUKERIAN-IV [Mukerian Canal]	1	(3X19.5)	TAIL WATER OF PONG DAM	HOSHIARPUR	58.5	R	1989
7	RANJIT SAGAR [Thein]	1	(4X150)	Reservoir on River Ravi	PATHANKOT	600	S	2000
	TOTAL PSPCL	7				941		
	BBMB							
8	GANGUWAL	1	(2X24.2)+ (1X29.25)	SATLUJ	RUPNAGAR	77.65	R	1955-1962
9	KOTLA	1	(2X24.2)+ (1X29.25)	SATLUJ	RUPNAGAR	77.65	R	1956-1961
	SUB-TOTAL BBMB (PUNJAB)	2				155.3		
	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)	Type (R/S/R(P))	Likely Commissioning
1	Shahpurkandi [Shahpur]	Irr. Deptt. & PSPCL	Gurdaspur	Ravi /Indus	206	R	2024-25 (Aug.'24)
1	Total				206		

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

Sl. No.	Name of Project	I.C. (MW)	Location (State)	States Involved	Status
1	SYL (2x18+2x7 =50 MW)	50	Punjab	Punjab/ Haryana/ Rajasthan	 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)
Reassess	Large Hydro Power Potential as per ment Study from Hydroelectric Projects having capacity above 25 MW)	5	483
J) Identified in this State but developed/being d 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:

	UTILITY/ STATIONS	NO. OF STATIONS	NO. OF UNITS X CAPACITY (MW)	RIVER	BASIN	DISTRICT	I.C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
1	JAWAHAR SAGAR	1	(3X33)	CHAMBA L	GANGA	BUNDI	99	R(P)	1972-1973
2	MAHI BAJAJ-I [Mahi Bajaj Sagar St-I]	1	(2X25)	МАНІ	CIR	BANSWARA	50	S	1986
3	MAHI BAJAJ-II [Mahi Bajaj Sagar St- II]	1	(2X45)	МАНІ	CIR	BANSWARA	90	R(P)	1989
4	R P SAGAR	1	(4X43)	CHAMBA L	GANGA	CHITTORGARH	172	S	1968
4	TOTAL RRVUNL	4					411		

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

Status of Large Hydro Power Development in Uttar Pradesh

		Nos.	Capacity (MW)
Reassess	d Large Hydro Power Potential as per ment Study from Hydroelectric Projects having capacity above 25 MW)	6	664
Hydroele	oject Identified after Reassessment Study from actric Projects having capacity above 25 MW)	1	90
	dentified above 25 MW capacity in ment Study but developed below 25 MW	-1	-35
) Identified in this State but developed/being d 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	Туре	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 To	tal	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	Туре	I.C. (MW)	Status
1	Eastern Yamuna Canal	Uttar Pradesh	Yamuna	R	35	Developed in 2 stages below 25 MW
1	Total				35	

2. H.E. Projects in Operation:

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

^{*} ALL PROJECTS ARE IN GANGA BASIN.

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

Sl.	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)
Study f	rom Hydr	Hydro Power Potential as per Reassessment coelectric Projects capacity above 25 MW)	84	17998
Hydroe	electric Pr	entified after Reassessment Study from ojects capacity above 25 MW)	1	76
		ets due to splitting of projects (identified nent study in 1978-87)	2	-830
_	-	ets due to merging of projects (identified nent study in 1978-87)	-4	184
		l above 25 MW capacity in Reassessment ped below 25 MW capacity	-2	-71
		Total	81	17357
I	Projec	ts in operation	17	3855.35
II A	Projec	ts under active construction	4	1144
II B	Projec	ts on which construction is held up	2	247
III	Projec	ts allotted by States for development		
	(i)	Projects concurred by CEA and yet to be taken up for construction	3	815
	(ii)	Projects under Examination in CEA	1	300
	(iii)	Projects returned to project authorities	5	489
	(iv)	Multi Purpose Projects (International Projects) under examination by India and Nepal	2	2400
	(v)	Multi Purpose projects	2	960
	(vi)	Projects under S&I	3	514
	(vii)	Projects allotted for development on which S&I is held up/ yet to be taken up	15	2402
IV	Projec reason	ts dropped/stuck due to Basin studies/ Other s	7	2457
V		ts yet to be allotted by the State for pment*	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 To	tal	76	

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

		Before Splitti	ng		After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
					1	Kotlibhel-IA	Bhagirathi	195	Concurred
1	Kotlibhel	Bhagirathi	1875	Identified	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 Mergi	ıg			Afte	r Merging		
S1.No.	Name of Project	River	I.C. (MW)	Status	S1.No.	Name of Project	River	I.C. (MW)	Status
1	Taluka Saul	Tons	39	Identified	1	Taluka Sankri	Tons	140	Hold IIn
2	Sankri Kunare	Tons	33	Identified		Taluka Salikii	10118		Held Up
3	Pala Bhela Tipri	Bhagirathi	165	Identified	0	Pala Maneri	Bhagirathi	480	Dropped
4	Bhela Tipri	Bhagirathi	100	Identified	2				
5	Gangotri	Bhagirathi	70	Identified				381	Dropped
6	Bhairon Ghati	Bhagirathi	60	Identified	3	Bhaironghati	Bhagirathi		
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

S1. No.	Naome of Project	Jaome of Project State		Туре	I.C. (MW)	Status
1	Nayar dam	Uttarakhand	Nayar	S	34	Developed below 25 MW
2	Malkhet	Uttarakhand	Pindar	S	37	Developed below 25 MW
2	Total				71	

2. H.E. Projects in Operation:

S. NO.	UTILITY/ STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER	DISTRICT	I.C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
	CENTRAL SECTOR							
	NHPC							
1	DHAULI GANGA [KHET TAWAGHAT]	1	(4X70)	DHAULIGANGA	PITHORAGARH	280	R(P)	2005
2	TANAKPUR	1	(3X31.4)	SARDA	CHAMPAVAT	94.2	R	1992
	SUB-TOTAL NHPC	2				374.2		
	тнос							
3	TEHRI ST-I [TEHRI DAM ST-I]	1	(4X250)	BHAGIRATHI	TEHRI GARHWAL	1000	S	2006-2007
4	KOTESHWAR	1	(4X100)	BHAGIRATHI	TEHRI GARHWAL	400	R(P)	2010-12
	TOTAL THDC	2				1400		
	SUB TOTAL CENTRAL	4				1774.2		
	STATE SECTOR							
	UJVNL							
5	CHIBRO (YAMUNA) [CHIBRO]	1	(4X60)	Tons River at Ichari Dam	DEHRADUN	240	R(P)	1975-1976
6	CHILLA [RISHIKESH HARDWAR]	1	(4X36)	GANGA	HARIDWAR	144	R	1980-1981
7	DHAKRANI	1	(3X11.25)	Tons & Yamuna Rivers at Dakpathar Barrage	DEHRADUN	33.75	R	1965-1970
8	DHALIPUR	1	(3X17)	Tons & Yamuna Rivers at Dakpathar Barrage	DEHRADUN	51	R	1965-1970
9	KHATIMA	1	(3X13.8)	SHARDA	UDHAM SINGH NAGAR	41.4	R	1955-1956
10	KHODRI	1	(4X30)	TONS	DAK PATHAR	120	R(P)	1984
11	KULHAL	1	(3X10)	TONS	DEHRADUN	30	R	1975
12	MANERI BHALI- I	1	(3X30)	BHAGIRATHI	UTTARKASHI	90	R(P)	1984
13	MANERI BHALI- II	1	(4X76)	BHAGIRATHI	UTTARKASHI	304	R(P)	2008
14	RAMGANGA [RAMGANGA DAM (KALAGARH)]	1	(3X66)	RAMGANGA	PAURI GARHWAL	198	S	1975-1977
	TOTAL UJVNL	10				1252.15		

	PRIVATE							
	АНРС							
15	SHRINAGAR	1	(4X82.50)	ALAKNANDA	TRHRI & PAURI	330	R(P)	2015
	JPPVL							
16	VISHNU PRAYAG	1	(4X100)	ALAKNANDA		400	R	2006
	ReNew Power							
17	SINGOLI BHATWARI	1	(3X33)			99	R	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	Type (R/S/R(P))	Likely Commissioning
1	Vishnugad Pipalkoti	THDC	Chamoli	444	Alaknanada	Ganga	R	2024-25 (Jun'24)
2	Naitwar Mori	SJVNL	Uttarkashi	60	Tons/ Yamuna	Ganga	R(P)	2022-23 (Jan'23)
3	Vyasi [Lakhwar Vyasi - II]	UJVNL	Dehradun	120	Yamuna/Ganga	Ganga	R	2022-23 (Mar.22)
4	Tapovan Vishnugad [Tapovan Chunar]	NTPC	Chamoli	520	Dhauliganga / Alaknanada	Ganga	R	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).**

** 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	Type (R/S/R(P))	Status & Likely Commissioning
1	Lata Tapovan	NTPC	Chamoli	171	Dhauliganga / Alaknanada	Ganga	R	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	R	Works stalled since July, 2017 due to Financial crunch with the contractor / developer. The company is undergoing a corporate insolvency resolution process initiated under IBC for resolution and revival of the project since June 2020. Under this process, the resolution professional appointed by the NCLT has initiated the process for inviting prospective investors for the project. 2024-25*
2	Total			247				

st Subject to re-start of work in immediate future

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

Sl. No.	Name of Project	Sector	I.C. (MW)	Agency	Type (R/S/R(P))	Month of receipt
1	Bowala Nand Prayag	State	300	UJVNL	R	Apr-22
1	Total		300			

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

Sl. No.	Name of Project	River	Agency	District	I.C. (MW)	Type (R/S/R(P))	Status
1	Kotlibhel St-IA [Kotlibhel]	Bhagirathi	NHPC	Tehri Garhwal	195	R	EC accorded on 9.05.07. However, NHPC vide email dated 02.04.2021 furnished that EC expired in May'2012 FC-I accorded on 13.10.11 & for FC-II, Compliance Report is awaited from State Govt. However, NHPC vide email dated 02.04.2021 furnished that FC-I expired in Oct'2016.#
2	Kotlibhel St-IB [Kotlibhel]	Alaknanda	NHPC	Pauri & Tehri Garhwal	320	R	EC accorded earlier on 14.08.07 is withdrawn on 15.09.10. MoEF&CC declined FC-I on 7.07.11.##
3	Alaknanda [Badri Nath]	Alaknanda	GMR	Chamoli	300	R	EC accorded on 12.3.08.FC-I accorded on 8.11.11. FC-II accorded on 09.11.2012. The project is included in the list of 24 projects under review by Hon'ble Supreme Court. Validity of Concurrence expried 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 Uttrakhand not to grant any further Environmental Clearance for any hydropower projects in the State of Uttrakhand 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 Uttrakhand not to grant any further Environmental Clearance for any hydropower projects in the State of Uttrakhand 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.

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

Sl.No.	Name of Project	River	Туре	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

6. Multi purpose projects

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

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

Sl. No.	Name of Project	River	Agency	Sector	Type (R/S/R(P))	I.C. (MW)	Month of Return
1	Nand Prayag Langasu	Alaknanda	UJVNL	State	R	100	Apr-11
2	Mori Hanol [Ugmir]	Tons		Private		63	Jan-10
3	Bogudiyar Sirkari Bhyol	Gori Ganga	GVK L&T	Private	R	146	Sep-10
4	Tiuni Plasu [Tiuni]	Tons	UID	State	R	72	Oct-10
5	Jhelum Tamak	Dhauliganga	THDCIL	Central	R(P)	108	Aug-19
5	Total					489	

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

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

9. 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 haas issued draft notification on 29.01.2019 regarding proposed ESZ of Askot Wildlife Sancutary. 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 dear 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 peroject 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 peroject 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 peroject 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 peroject 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 peroject 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 peroject 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 peroject named in PIL under consideration by Hon'ble Supreme Court.
15	Total		2402			

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

Sl. No.	Project	I.C. (MW)	River	Basin	Type (R/S/R(P))	Remarks
1	Pala Maneri * [Pala Bhela Tipri + Bhela Tipri]	480	Bhagirath	Ganga	R(P)	The project has been discontinued by Govt. of Uttarakhand due to additional conditions for environmental safeguards vide order dated 3.01.11.
2	Kotlibhel St-II [Kotlibhel]	530	Bhagirath	Ganga	R	MoEF on 22.11.2010 has withdrawn the environment clearance. FC-I declined on 5.07.11. The project is included in the list of 24 projects under review by Hon'ble Supreme Court. Hon'ble Supreme Court vide order dated 13.08.2013 directed the MoEF&CC as well as State of Uttarakhand not to grant any further Environmental Clearance for any hydropower projects in the State of Uttarakhand until further orders. In compliance to the above order, MoEF&CC constituted an Expert Body vide order dated 12.05.2015. Expert Body has given its report to MoEF&CC in Sept, 2017. The expert Body has recommended to drop the project to preserve Mahseer.
3	Loharinagpala * [Lohari Nag Tharang]	360	Bhagirath	Ganga		Project discontinued by NGRBA
4	Bhaironghati * [Gangotri + Bhairon ghati + Harsil Dam]	381	Bhagirath	Ganga		Project discontinued by NGRBA
5	Rupsiyabagar Khasiyabara	261	Gauri Ganga	Ganga	R	EC accorded on 26.03.09. FC-I accorded on 17.06.2006 and FC-II yet to be obtained. MoEF&CC declined FC due to project location in highly sensitive wild life habitat.
6	Goriganga-III A	150	Gauri Ganga	Ganga	R(P)	The DPR has been examined and cleared from planning, design & cost angle, financial and commercial angle. It has been observed that first year and levelised tariff computed by NHPC are of the order of ₹8.09/kWh and ₹8.13/kWh respectively which are on higher side and the same was communicated to NHPC vide letter dated 25.08.2020. NHPC limited vide letter dated 23.10.2020 has intimated that in order to bring down the tariff they have requested Govt. of Uttarakhand for providing waiver of free power, State GST concession and subordinate loan. NHPC has also asked Ministry of Power to take up the matter with Govt. of Uttarakhand for extending support through concessions. Considering that above matter may take some time to conclude in NHPC's favour, the examination of DPR of Goriganga-IIIA 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.

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

Sl.No.	Name of Project	River	Туре	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	Dhauli Ganga	R	49	
12	Niti Ghansali	Dhauli Ganga	R	32	
13	Bampa Kurkuti	Dhauli Ganga	R	60	
14	Girthi Ganga	Girthi 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	Dhauli Ganga	R	145	
21	Tawaghat Dharchula	Sarda	R	310	
22	Kalika Dantu	Sarda	R	140	
22	Total	22 nos. of pr	22 nos. of projects		

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

Status of Large Hydro Power Development in Chhattisgarh

		Nos.	Capacity (MW)
Reassess	d Large Hydro Power Potential as per ment Study from Hydroelectric 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)	Type (R/S/R(P))	Year of commissioning
	CSPGCL							
1	HASDEO BANGO [Hasdeo (Bango)]	1	(3X40)	HASDEO/ CIR	KORBA	120	S	1994-1995
1	TOTAL CSPGCL	1				120		

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

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

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

Sl. No.	Name of Project	River	Туре	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	

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	Туре	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)
Reasse	ied Large Hydro Power Potential as per ssment Study from Hydroelectric Projects ets having capacity above 25 MW)	2	590
I	Capacity in operation	2	550

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

1. Identified Projects during Reassessment study:

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

2. H.E. Projects in Operation:

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

^{*} All projects are in CIR Basin

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

Status of Large Hydro Power Development in Maharashtra

		Nos.	Capacity (MW)
Reasses	ed Large Hydro Power Potential as per sment Study from Hydroelectric Projects s having capacity above 25 MW)	25	3314
	dentified below 25 MW capacity in sment Study but developed above 25 MW	1	34
	dentified above 25 MW capacity in sment Study but developed below 25 MW	-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.

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.

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

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

1 (A). Identified Projects during Reassessment study

	1		
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

S1.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	Туре	I.C. (MW)	Status
1	Gosikhurd (Pathri)	Maharashtra	Wainganga	S	40	Developed below 25 MW
2	Warna(Varna)	Maharashtra	Varna	S	27	Developed below 25 MW
2	Total				67	

2. H.E. Projects in Operation:

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

Note: In addition to above, two pumped storage projects, namely Ghatgar (2x125 = 250 MW) and Bhira (1x150 = 150 MW) are constructed & working in pumping mode while construction on one project, namely Koyna Left Bank (2x40 = 80 MW) is held up and it is likely to be commissioned by 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	Туре	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. o	1865	

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

Status of Large Hydro Power Development in Madhya Pradesh

		Nos.	Capacity (MW)
Study f	ed Large Hydro Power Potential as per Reassessment from Hydroelectric Projects ts having capacity above 25 MW)	13	1970
Hydroe	Projects Identified after Reassessment Study from electric Projects ts having capacity above 25 MW)	2	110
-	s Identified in other State(s) but developed/being ped 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.

Note: In addition to above, one pumped storage project, namely MP30 Gandhi Sagar (5x240+2x120=1440MW) is 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.

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

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

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

2. H.E. Projects in Operation:

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

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

Sl. No.	Name of Project	I. C. (MW)	District	River	Basin	Agency	Type (R/S/R(P))	Status & Likely Commissioning
1	Maheshwar (Pvt.) #	400	Khargone & Khandwa	Narmada	CIR	SMHPCL	R	Works suspended since Nov-11 due to cash flow problem with developer. M.P. Power Management Company Ltd. has terminated the Power Purchase Agreement with SMHPCL on 18.04.2020. 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.	DPR with estimated cost of Rs. 89.01 crores (3/1980 PL) returned in 07/1985.
					· Inter-state aspects mainly relate to submergence under the reservoir as well as sharing of water below Orcha.
2	Ken (2x15+2x10 =50 MW)	50	M.P.	U.P./M.P.	• DPR with estimated cost of Rs 202.06 crores returned in 2/1987.
					The yield at the project site and sharing of water u/s & d/s of the project has been agreed between U.P. & M.P. Both the States have also agreed for preparation of DPR for the Ken MPP and NWDA proposal for transfer of surplus water of Ken to Betwa u/s of Rajghat Dam.
					 DPR for Ken-Betwa River Linking Project has been prepared by NWDA in Dec., 2008, copies of which were forwarded by them to Govt. of M.P. and Govt. of U.P. The status of the project was discussed by the respective Govts./NWDA/ MOWR in the meeting taken by Secretary (WR) on 04.08.2010 and it was decided that S&I works will be taken up by NWDA on priority.
2	Total	140			

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

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

	6. H. E. Projects yet to be allotted by the State for development:									
S.No.	Name of Project	River	Туре	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)
Reass	fied Large Hydro Power Potential as per essment Study from Hydroelectric Projects cts having capacity above 25 MW)	11	3261
Hydro	Project Identified after Reassessment Study from belectric Projects cts having capacity above 25 MW)	1	50
	et identified above 25 MW capacity in Reassessment but developed below 25 MW capacity	-1	-44
	et(s) Identified in this State but developed/being oped 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) & Yerrravaram (1200 MW) are under S&I.

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	Srisailam	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

^{*}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.

^{##} This project has been in operation but developed with capacity less than 25 MW

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

S1.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.	Naome of Project	State	River	Туре	I.C. (MW)	Status
1	Donkarai Canal	Andhra Pradesh	Sileru	S	44	Developed below 25 MW
1	Total				44	

2. H.E. Projects in Operation:

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

^{*} All projects are in EFR Basin

3. H.E. Projects under active construction:

Sl. No.	Name of Project	Agency	District	River/ Basin	I. C. (MW)	Type (R/S/R(P))	Likely Commissioning
1	Polavaram	Polavaram Project Authority	East & West Godavari	Godavari/ EFR	960	S	2024-26
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 1	Inchampalli MPP (13x75= 975MW)	975	A.P.	hattisgarh/Ma	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 concurred 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	Туре	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)
Study fro	Large Hydro Power Potential as per Reassessment m Hydroelectric Projects having capacity above 25 MW)	38	6459
Hydroele	oject Identified after Reassessment Study from ctric Projects having capacity above 25 MW)	1	139.2
	dentified below 25 MW capacity in Reassessment d being developed above 25 MW	1	200
Project(s) in other S) Identified in this State but developed/being developed 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 [Tungabhadra 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	2.4	G1	m 11 1	4.1
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	24	Ghataprabha	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	25	Shivapur [Shivpur]	Tungabhadra	26
28 T.B. Dam [Tungabhadra 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	26	Munirabad	Tungabhadra	41
28	27	Hampi	Tungabhadra	34
29	28		Tungabhadra	27
31 Sivasamudram Cauvery 44	29		Bhadra	36
31	30	Krishnarajasagar	Cauvery	55
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	31		Cauvery	44
33 [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	32	Shimsa [Shimsa PH-I]	Cauvery	31
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	33		Cauvery	235
36 Mekadatu [Cauvery PH-II] Cuvery 165 37 Rasi Manal # [Cauvery PH-III] Cauvery 90 38 Hogenekkal # [Cauvery PH-IV] Cauvery 36	34	Shimsa [Shimsa PH-II]	Shimsha	42
37 Rasi Manal # Cauvery 90	35	Arkavathy [Arkavathi]	Arkavathi	42
37 [Cauvery PH-III] 90 38 [Cauvery PH-IV] Cauvery 36	36	Mekadatu [Cauvery PH-II]	Cuvery	165
[Cauvery PH-IV] Cauvery 36	37		Cauvery	90
38 TOTAL 6459	38	e e	Cauvery	36
1	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 7	otal otal	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 7	`otal	200		

2. H.E. Projects in Operation:

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

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

^{*} Utilities are in Andhra Pradesh

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		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	Preliminary report of Stage-I was returned in 10/1996. Sharing of Cauvery water awarded by CWDT. 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 meting 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 Tam
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 Yethnable 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	Туре	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	ldurg Krishna R		270
13	Total	13 Nos. of P	1178	

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

Status of Large Hydro Power Development in Kerala

		Nos.	Capacity (MW)
Study from	Large Hydro Power Potential as per Reassessment Hydroelectric Projects aving capacity above 25 MW)	28	3378
Hydroelect	ects Identified after Reassessment Study from ric Projects aving capacity above 25 MW)	5	1090
	Projects due to splitting of projects (identified during nt study in 1978-87)	2	145
_	Projects due to merging of projects (identified during nt study in 1978-87)	-1	85
Project(s) I in other Sta	dentified in this State but developed/being developed ate(s) #	-1	-80
_	ntified above 25 MW capacity in Reassessment Study ped below 25 MW capacity	-2	-185
	Total	31	4433
I	Projects in operation	14	1856.5
II	Projects under active construction	2	100
III	Under S&I	1	800
IV	Projects held up due to Inter-State aspects	4	520
V	Projects dropped due to Basin studies/ Other reasons	4	644
	Projects yet to be allotted by the State for development*	6	338

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

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

1 (A). Identified Projects during Reassessment study

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

[#] This project is in Inter-State issue in Tamil Nadu State

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

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

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

		Before Splitt	ing			After Splitting				
Sl.No.	10					Name of Project	River	I.C. (MW)	Status	
	Kuttiyadi	Kuttiyadi	80		1	Kuttiyadi	Kuttiyadi	75	In Operation	
1				Identified	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	1					
2	Sub Total		695		1	Sub Total		780		
	Net Change in Numbers		-1	Decrease						
	Net Change in	n 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	Туре	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)	Type (R/S/R(P))	Year of commissioning		
	KSEB									
1	IDAMALAYAR	1	(2X37.5)	IDAMALAYAR	ERNAKULAM	75	S	1987		
2	IDUKKI [Idukki I & II + Idukki - III]	1	(6X130)	PERIYAR	IDUKKI	780	S	1976-1986		
3	KAKKAD	1	(2X25)	PAMBA	PATHANAMTH ITTA	50	R(P)	1999		
4	KUTTIYADI [Kuttiyadi]	1	(3X25)	KUTTIYADI	KOZHIKODE	75	S	1972		
5	KUTTIYADI EXTN . [Kuttiyadi]	1	(1X50)	KUTTIYADI	KOZHIKODE	50	S	2001		
6	KUTTIYADI ADDN EXTN [Kuttiyadi]	1	(2X50)	KUTTIYADI	KOZHIKODE	100	S	2010		
7	LOWER PERIYAR	1	(3X60)	PERIYAR	IDUKKI	180	R(P)	1997		
8	NERIAMANGLAM	1	(3X15)	MUTHIRAPUZHA	IDUKKI	45	S	1961-63		
9	PALLIVASAL [Pallivasal Replacement]	1	(3X5) +(3X7.5)	MUTHIRAPUZHA	IDUKKI	37.5	s	1948-2001		
10	PANNIAR	1	(2X15)	PANNIAR	IDUKKI	30	S	1963-2001		
11	PORINGALKUTTU	1	(4X8)	CHALAKUDY	COIMBATORE	32	S	1957-1960		
12	SABARIGIRI	1	(6X50)	PAMBA	PATHANAMTH ITTA	300	S	1960-1967		
13	SENGULAM	1	(4X12)	MUTHIRAPUZHA	IDUKKI	48	S	1954-2001		
14	SHOLAYAR [Sholaiyar]	1	(3X18)	SHOLAYAR	COIMBATORE	54	S	1956-1968		
14	TOTAL KSEB	14				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/ I.C. Basin (MW)		Type (R/S/R(P))	Likely Commissioning
1	Pallivasal	KSEB	ldukki	Mudirapuzha/ Baypore Periyar/ WFR	60	R	2022-23 (Mar.'23)
2	Thottiyar	KSEB	Idukki	Thottiyar/ Baypore Periyar / WFR	40	R	2022-23 (Mar.'23)
2	Total				100		

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

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

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

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

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

Sl. No.	Name of Project/Installed Capacity	I.C. (MW)	Location (State)	States Involved	Status
1*	Kerala Bhavani (MPP) (3x50= 150 MW)	150	Kerala	Kerala/T.N. /Karnataka	 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 transbasin 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 Kerela State before the Hon'ble Supreme Court of India.
2*	Mananthvady MPP (Manthavadi) (5x45 =225MW)	225	Kerala	Kerala/T.N. /Karnataka	 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 transbasin 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 Kerela State before the Honourable Supreme Court of India.
3	Pandiar Punnapuzha Tail Race [Pandiyar Punnapuzha II]	105	Kerala	TN/Kerala	 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	 Earlier DPR for 30 MW with estimated cost of Rs.65.46 crores (1989 PL) returned in 03/1990. The project is also entangled with Cauvery Waters Disputes Tribunal (CWDT). KSEB revised the Project from earlier proposal of storage Project to run-of-river Project. Non-Consumptive use of 5.6 TMC was proposed for power generation, which has been allowed by Tribunal subject to agreement with Tamil Nadu for schedule of water release. DPR is yet to be finalized.
4	Total	520			

^(*) Projects located in Cauvery basin.

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

Sl. No.	Name of Project	River	Туре	Probable I.C.(MW)	
1	Chalipuzha	Baypore	S	50	
2	Manali	nali Idamlayar S			
3	Kudal	udal Idamlayar S			
4	Lower Sabarigiri	rer Sabarigiri Kakkad S			
5	Twin-Kallar (Twin Kallar Multipurpose)	Achankovil		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)	
Reass	fied Large Hydro Power Potential as per essment Study from Hydroelectric Projects cts having capacity above 25 MW)	23	1693	
_	ets identified below 25 MW capacity in essment Study and developed above 25 MW ity	4	220	
_	ge in Projects due to splitting of projects (identified greassessment study in 1978-87)	5	-20	
_	ge in Project due to merging of projects (identified greassessment study in 1978-87)	-1	354	
-	ets Identified in other State(s) but developed/being oped in this State #	3	206	
v	et identified above 25 MW capacity in essment 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

$1\left(A\right)\!.$ 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 (Avalaanche Em'ld (Kundah-I))	Kundah	70	
20	Kundah II (Kundapallam (Kundah-II))	Kundah	160	
21	Kundah III (Pengumbahalla (Kundah-III))	Kundah	95	
22	Suruliyar (Surullar)	Suruliar	30	
23	Papanasam	Tambraparni	31	
23	TOTAL		1693	

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

Sl.No.	Name of Project	River	I.C. (MW)	Status	Remarks
1	Kundah-IV	Bhavani	100	In Operation	Pillur - 25 MW
2	Kundah-V	Bhavani	40	In Operation	Upper Bhavani - 16 MW
1 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 Splitti	ng	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 I	Cauvery	30	In Operation
1	Lower Mettur	Cauvery	115	Identified -	2	Lower Mettur II	Cauvery	30	In Operation
1		Cauvery			3	Lower Mettur III	Cauvery	30	In Operation
					4	Lower Mettur IV	Cauvery	30	In Operation
		Cauvery	115	Identified	5	Bhavani Kattalai Barrage-I	Cauvery	30	In Operation
2	Bhawani Kattalai				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 ir	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 Mergi	ng	After Merging					
S1.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	Туре	I.C. (MW)	Status
1 1	Lower Bhavani (Lower Bhawani)	Tamil Nadu	Bhavani	S	34	developed below 25 MW
1	Total				34	

2. H.E. Projects in Operation:

S. No.	Utility/ Stations	No. Of stns.	No. of units x Capacity (MW)	River	Basin	District	Capacity (MW)	Type (R/S/R(P))	Year of commissioning
	TANGEDCO	L	L						
1	ALIYAR [Upper Aliyar]	1	(1X60)	MASONARY DAM	WFR	COIMBATORE	60	S	1970
2	BHAVANI KATTALAI BARRAGE-I [Bhawani Kattalai]	1	(2X15)	CAUVERY	EFR	ERODE	30	R(P)	2006
3	BHAVANI KATTALAI BARRAGE-II [Bhawani Kattalai]	1	(2X15)	CAUVERY	EFR	ERODE	30	R(P)	2013
4	BHAVANI KATTALAI BARRAGE-III [Bhawani Kattalai]	1	(2X15)	CAUVERY	EFR	ERODE	30	R(P)	2012
5	KODAYAR-I	1	(1X60)	KODAYAR	WFR	KANYAKUMARI	60	S	1970
6	KODAYAR-II	1	(1X40)	KODAYAR	WFR	KANYAKUMARI	40	S	1971
7	KUNDAH-I [Avalaanche Em'ld (Kundah-I)]	1	(3X20)	AVLANCHE STREAM	EFR	NILGRIS	60	S	1960-1964
8	KUNDAH-II [Kundapallam (Kundah- II)]	1	(5X35)	KUNDAH	EFR	NILGRIS	175	S	1960-1965
9	KUNDAH-III [Pengumbahalla (Kundah-III)]	1	(3X60)	PENGUNBA HALLAH	EFR	COIMBATORE	180	S	1965-1978
10	KUNDAH-IV	1	(2X50)	BHAVANI	EFR	COIMBATORE	100	S	1966-1978
11	KUNDAH-V	1	(2X20)	BHAVANI	EFR	NILGRIS	40	S	1964-1988
12	LOWER METTUR-I [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	1988
13	LOWER METTUR-II [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	1988
14	LOWER METTUR-III [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	1987-1988
15	LOWER METTUR-IV [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	1988-1999
16	METTUR DAM [Mettur Dam PH]	1	(4X12.5)	CAUVERY	EFR	SALEM	50	S	1937-1946
17	METTUR TUNNEL [Mettur Tunnel PH]	1	(4X50)	CAUVERY	EFR	SALEM	200	S	1965-1966
18	MOYAR	1	(3X12)	MOYAR	EFR	NILGRIS	36	S	1952-1953
19	PAPANASAM	1	(4X8)	THAMBRAP ARANI	EFR	TIRUNELVELI	32	S	1944-1951
20	PARSON'S VALLEY	1	(1X30)	BHAVANI	EFR	NILGIRIS	30	S	2000
21	PERIYAR [Periyar Lake]	1	(3X42)+ (1X35)	PERIYAR	WFR	IDUKKI	161	S	1958-1965

22	PYKARA [Pykara (Singara)]	1	(3X7)+ (2X13.6)+ (1X11)	Glenmorgan Forebay dam	EFR	NILGRIS	59.2	S	1932-2005
23	PYKARA ULTMATE [Pykara (Ultimate)]	1	(3X50)	PYKARA	EFR	NILGRIS	150	S	2005
24	SARKARPATHY [Sarkarpathi]	1	(1X30)	PARABIKUL AM	WFR	KOZHIKODE	30	R(P)	1966
25	SHOLAYAR I [Sholaiyar- I]	1	(2X35)	SHOLAYAR	WFR	COIMBATORE	70	S	1971
26	SURULIYAR [Surullar]	1	(1X35)	ERAVANGA LAR	EFR	TIRUNELVELI	35	S	1978
26	TOTAL TANGEDCO	26					1778.2		

Note: In addition to above, one pumped storage project, namely Kadamparai (4x100 = 400 MW) is constructed & working in pumping mode, one pumped storage project, namely Kundah Pump Storage (Stage I,II,III&IV) (4x125 = 500 MW) is under active construction [likely commissioning by 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:

3. H.	E. Projects held up du	ie to Inter-			
Sl. No.	Name of Project	I.C. (MW)	Location (Site)	States Involved	Status
1	Nellithorai	50	T.N.	TN/ Kerala	 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	 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 meting 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 Shivasamudaram 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 sug
3	Pandiyar Punnapuzha [Pandiyar-Punnapuzha I]	100	T.N.	TN/ Kerala	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 Ministrial level meeting between Kerela and Tamil Nadu on 10.06.2002, modified proposal was evolved by TNEB and has been sent to Govt. of Kerela 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	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 Kerela.
4	Total	690			
•		0,0		·	

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

5. 11. E. I Tojects yet to be anotice 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)
Study from	arge Hydro Power Potential as per Reassessment Hydroelectric Projects ving capacity above 25 MW)	7	1099
Hydroelectr	ct Identified after Reassessment Study from ic Projects ving 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 Srisailam 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)		115
7	Priyadarshini Jurala (Priyadarshini)	Krishna	105
7	TOTAL		1099

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

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

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

2. H.E. Projects in Operation:

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

^{*} All projects are in EFR Basin

Note: In addition to above, two pumped storage projects, namely Nagarjuna Sagar (7x100.80 = 705.60 MW) and Srisailam 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	Туре	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. Inaddition 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 Tot	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	Туре	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	Туре	I.C.(MW)
1	Indrapuri Reservoir Scheme (Khadwan)			150
1	Total			150

Status of Large Hydro Power Development in Jharkhand

		Nos.	Capacity (MW)
Study fro	d Large Hydro Power Potential as per Reassessment om Hydroelectric Projects having capacity above 25 MW)	8	582
-	dentified below 25 MW capacity in Reassessment d developed above 25 MW capacity	2	130
3	dentified above 25 MW capacity in Reassessment d developed below 25 MW capacity	-1	-30
-	Identified in this State but developed/being d 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	III Projects yet to be allotted by the State for development*		147

[#] Maithon is in operation in West Bengal State

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

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.

^{*}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.

^{##} Subernrekha MPP has been developed below 25 MW.

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

S1.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.	No. Naome of Project State		River Type		I.C. (MW)	Status
1	Subernarekha MPP	Jharkhand	Subernarekha	S	30	Developed below 25 MW
1	Total				30	

2. H.E. Projects in Operation:

S. NO.	UTILITY / STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER / BASIN*	DISTRICT	I.C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
	DVC	•	•					
1	PANCHET	1	(2X40)	DAMODAR	DHANBAD	80	S	1990
	SUB-TOTAL DVC	1				80		
	JUUNL							
1	SUBERNREKHA -I	1	(1X65)	SUBERNAR EKHA	RANCHI	65	S	1977
2	SUBERNREKHA -II	1	(1X65)	SUBERNAR EKHA	RANCHI	65	R(P)	1980
	TOTAL JUUNL	2				130		
3	TOTAL JHARKHAND	3				210		

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

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

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

Sl. No.	Name of Project	River	Туре	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.	147	

Status of Large Hydro Power Development in Odisha

		Nos.	Capacity (MW)
from Hy	d Large Hydro Power Potential as per Reassessment Study droelectric Projects having capacity above 25 MW)	13	2981
Projects	ojects Identified after Reassessment Study from Hydroelec having capacity above 25 MW)	tric 2	128
Projects this State	Identified in other State(s) but developed/being developed e #	in 1	205
	Total	16	3314
I	Projects in operation	7	2154.55
II	Projects allotted by States for development		
	(i) Projects on which S&I held up	2	128
	(ii) Projects held up due to Inter-State aspects	1	320
	(iii) Projects dropped due to Basin studies/ Other reason	ons 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.

$1\left(A\right)\!.$ Identified Projects during Reassessment study:

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

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

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

2. H.E. Projects in Operation:

S. NO.	UTILITY/ STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER	DISTRICT	I.C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
	ОНРС							
1	BALIMELA	1	(6X60)+ (2X75)	SILERU	MALKANGIRI	510	S	1973-1977, 2008
2	HIRAKUD (BURLA) [HIRAKUD ST- I]	1	(2X43.65)+ (1X37.5)+(2X4 9.5)+(2X32)	MAHANADI	SAMBALPUR	287.8	S	1956-1990
3	HIRAKUD (CHIPLIMA) [HIRAKUD ST- II]	1	(3X24)	MAHANADI	SAMBALPUR	72	R(P)	1962-1964
4	RENGALI	1	(5X50)	BRAHMANI	ANGUL	250	S	1985-1992
5	UPPER INDRAVATI	1	(4X150)	INDRAVATI	KALAHANDI	600	S	1999-2001
6	UPPER KOLAB	1	(4X80)	KOLAB	KORAPUT	320	S	1988-1993
	TOTAL OHPC	6				2039.8		
	APGENCO							
1	MACHKUND	1	(3X17)+ (3X21.25)	MACHKUND	KORAPUT	114.75	S	1959
	SUB-TOTAL APGENCO	1				114.75		
7	TOTAL ODISHA	7				2154.55		

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

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

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

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

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

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

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

Sl.No.	Name of Project	River	Туре	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	Туре	I.C. (MW)
1	Bhimkund	Baitarni	S	29
2	Baljori	Baitarni	S	230
3	Lodani	Brahmani		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)
Reassess	sment Stu	Hydro Power Potential as per udy from Hydroelectric Projects capacity above 25 MW)	24	4248
Hydroel	ectric Pro	dentified after Reassessment Study from ojects capacity above 25 MW)	9	1132
		Total	33	5380
I	Project	ts in operation	8	2282
II A	Project	ts under active construction	2	620
II B	Project	ts on which construction is held up	3	417
III	Project	ts allotted by States for development		
	(i)	Projects concurred by CEA and yet to be taken up for construction	1	520
	Projects allotted for development on which S&I is held up/ yet to be taken up		2	92
IV	Project reasons	ts dropped due to Basin studies/ Other	1	96
V		ts yet to be allotted by the State for pment*	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.

Sl.No.	Name of Project	Name of Project River		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	Suntaleytar	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 To	otal	1132	

2. H.E. Projects in Operation:

S. NO.	UTILITY/ STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER / BASIN*	DISTRICT	I.C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
	NHPC							
1	RANGIT(Ligship)	1	(3X20)	RANGIT	GANGTOK	60	R(P)	2000
2	TEESTA-V (Samdong)	1	(3X170)	TEESTA	EAST SIKKIM	510	R(P)	2008
	SUB-TOTAL NHPC	2				570		
	STATE							
	TEESTA URJA LTD.	(TUL)						
3	TEESTA-III (Singhik)	1	(6X200)	TEESTA	NORTH SIKKIM	1200	R(P)	2017
	SUB-TOTAL TUL	1				1200		
	PRIVATE				1			I
	GIPL (GATI INFRA PRIVATE LTD.)							
4	CHUZACHEN	1	(2*55)	RONGLI & RANGPO	EAST SIKKIM	110	R(P)	2013
	SNEHA KINETIC PO	OWER PRO	JECTS PVT LT	D (SKPPPL)				
5	DIKCHU	1	(2*48)		EAST & NORTH SIKKIM	96	R(P)	2017
	SHIGA ENERGY PV	T LTD (SEF	PL)					
6	TASHIDING	1	(2*48.50)	RATHANG CHU		97	R(P)	2017
	DANS ENERGY PVT	LTD. (DEP	L)	•				
7	JORETHANG LOOP	1	(2*48)	RANGIT	SOUTH /WEST	96	R(P)	2015
	Madhya Bharat Pvt C	Company (M	BPC)					
8	RONGNICHU	1	2*56.5	Rongnichu/ Teesta/Brahmaputra	EAST SIKKIM	113	R	2021
	SUB-TOTAL PRIVATE	5				512		
8	TOTAL SIKKIM	8				2282		

^{*} All projects are in Brahamputra Basin

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

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River/ Basin	Type (R/S/R(P))	Likely Commissioning
1	Teesta St. VI	NHPC	South Sikkim	South Sikkim 500		R	2023-24
					Brahmaputra		(Mar.'24)
2	Rangit-IV	NHPC	West Sikkim	120	Rangit/ Teesta/ Brahmaputra	R	2024-25(May'24)
2	Total			620			

${\bf 3B.} \quad {\bf H.E.\ Projects\ on\ which\ Construction\ is\ held\ up:}$

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River/ Basin	Type (R/S/R(P))	Status & Likely Commissioning
	N.	C : I c	E (0.11)		Rangpo/ Teesta	P.	Works are stalled since Sept., 2016 due to
1	Bhasmey	Gati Infrastructure East Sikkim 51	51	Brahmaputra	R	funds constraints with developer. 2024-25*	
2	Rangit-II Sikkim Hydro West Sikkim 66	66	Greater Rangit/ Teesta	R	Works are stalled since December, 2017 due to funds constraints with developer.		
					Brahmaputra		Project is in NCLT since 30.07.2020. 2024-25*
				Rangyongchu/ Teesta			Issue of construction of bridge on Mantham
3	Panan	Himagiri North Sikkim 300	Brahmaputra	R	Lake for accessebility of site is under discussion with the State Govt of Sikkim. 2025-26 *		
3	Total			417			

st Subject to re-start of work in immediate future

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

Sl. No	Name of Project	Agency	District	River/ Basin*	I.C. (MW)	Date of CEA Concurrence	Type (R/S/R(P))	Status
	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.

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/ 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		

Projects dropped due to Basin studies/ Other reasons:

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

[•] 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,

[•] 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 projet 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

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

Sl.No.	Name of Project	River	Type (R/S/R(P))	IC
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	Tot	tal		1914

Status of Large Hydro Power Development in West Bengal

		Nos.	Capacity (MW)
Study	Fied Large Hydro Power Potential as per Reassessment from Hydroelectric Projects cts having capacity above 25 MW)	6	2829
Hydro	Projects Identified after Reassessment Study from electric Projects cts having capacity above 25 MW)	2	203
	ts Identified in other State(s) but developed/being oped 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 Tot	al	203	

2. H.E. Projects in Operation:

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

 $[\]ensuremath{^{*}}$ Maithon is in Ganga and others are in Brahmaputra Basin.

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

3. H.E. Projects under active Construction:

Sl. No.	Name of Project	Agency	District	River / Basin	I. C. (MW)	Type (R/S/R(P))	Likely Commissioning
1	Rammam-III	NTPC	Darjeeling	Rammam/ Rangit/ Teesta /Brahmaputra	120	R	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	Туре	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)	
Study 1	from Hyd	e Hydro Power Potential as per Reassessment droelectric Projects g capacity above 25 MW)	87	50064	
Hydroe	electric P	Identified after Reassessment Study from Projects g capacity above 25 MW)	45	10889	
		ects due to splitting of projects ng reassessment study in 1978-87)	8	-1506	
_	_	ects due to merging of projects ng reassessment study in 1978-87)	-2	-2612	
		Total	138	56836	
I	Projects	s in operation	3 1115		
II	Project	s under active construction	1	2000	
III	Projects	s 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	Project	s dropped due to basin studies/other reasons	21	4778	
V	Projects	s stuck due to Inter-State/ Other Issues	4	1940	
VI	Projects develop	s yet to be allotted by the State for oment*	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 T	otal	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)

			After Splitting						
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
					1	Upper Siang I	Siang	6000	Yet to be
					2	Upper Siang II	Siang	3750	Yet to be
1	Passighat	Dihang	14685	Identified	3	Siyom (Middle Siang)	Siang	1000	Other issues
					4	Lower Siang	Siang	2700	Concurred
2	YV	Luhit	950	Identified	5	Hutong Stage I		750	Dropped
2	Hutong		950		6	Hutong-II		1200	Returned
3	Kalai	Luhit	2550	Identified	7	Kalai I	Lohit	1352	Returned
3	Kaiai				8	Kalai II	Lohit	1200	Concurred
					9	Demwe Upper St-I	Lohit	270	S&I
4	Demwe	Laihit	3765	Identified	10	Demwe Upper St-II	Lohit	270	Yet to be
4	Demwe	Lunit	3/05	identified	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	n 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)	Type (R/S/R(P))	Year of commissioning
	NEEPCO							
1	RANGANADI [Yazali DivII]	3	(3X135)	RANGANADI	LOWER SUBANSIRI	405	R(P)	2002
2	PARE	2	(2X55)	BRAHAMPUTRA		110	R (P)	2018
3	Kameng	4	(4x150)	Bichom & Tenga / Kameng	West Kameng	600	R (P)	2020-21
3	Total	9				1115	-	

Note: All projects are in Brahamputra Basin

3. H.E. Projects Under Active Construction:

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River	Type (R/S/R(P))	Likely Commissioning
1	Subansiri Lower [Subansiri Dam]	NHPC	L.Subansiri/ Dhemaji	2000	Subansiri	R(P)	2022-24* (Aug.'23)
1	Total			2000			

Note: All projects are in Brahamputra 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	Type (R/S/R(P))	Status
								EC & FC yet to be obtained by developer.
1	Lower Siang	JAVL	East Siang	Siang	2700	16.02.10	R(P)	MoEF&CC in Jan'2016 closed the proposal due to non-response of developer. Developer is required to carry out fresh EIA/EMP studies. #
2	Tawang St-I	NHPC	Tawang	Tawang Chu	600	10.10.11	R	EC accorded on 10.06.2011 (Valid till June 2021). EAC in its 13th meeting held on 16.06.2021 has recommended an extension of validity of EC for 3 years. FC-I & FC-II are pending. ##
3	Tawang St-II	NHPC	Tawang	Tawang Chu	800	22.09.11	R	EC accorded on 10.06.2011 (valid till June 2021). MoEF&CC vide letter dated 18.10.2021 accorded extension of validity of EC for 3 years till 09.06.2024. FC-I accorded on 08.01.2014. FC-II yet to be obtained ###
4	Demwe Lower	ADPL	Lohit	Lohit	1750	20.11.09	R(P)	EC accorded on 12.02.2010. EC extended till 11.02.2023. FC-I accorded on 01.03.2012. FC-II accorded on 03.05.2013 ####
5	Hirong	JAPL	West Siang	Siang	500	10.04.2013	R	EC & FC yet to be obtained by developer. EIA/EMP report being revised as per Siang BSR. FC-I under process at state level. However, as per MoEF&CC, matter of FC is closed vide letter dated 02.12.2015. #####
6	Talonga Londa	GMR	East Kameng	Kameng	225	16.08.2013	R(P)	EC accorded on 07.08.2015. FC-I & FC-II yet to be obtained. ######
7	Etalin	EHEPCL	Dibang Valley	Dri & Tangon	3097	12.07.2013	R	EC recommended by EAC on 31.01.2017. Letter will be issued after FC-I. FC-I & FC-II yet to be obtained. ########
8	Naying HEP	NDSCPL	West Siang	Siang	1000	11.09.2013	R	EC & FC yet to be obtained by developer. \$
9	Kalai –II	Kalai PPL	Anjaw	Lohit	1200	27.3.2015	R(P)	EC accorded 20.05.2015. Final order will be issued after obtaining FC-I. FC-I and FC-II yet to be obtained. Land acquisition under process. Validity of Concurrence to the project expired on 27.03.2018. MOP vide letter dated 22.12.2021 indicated Kalai-II HEP to be pursued by THDC
10	Нео	HHPPL	West Siang	Yarjep	240	28.07.2015	R	EC accorded on 10.11.2015. FC-1 accorded on 27.10.2015. FC-II yet to be obtained. The issue of shifting of quarry is pending with FAC which is linked with Pauk, Heo and Tato-I and needs to be resolved for accord of FC-II. Observations of Regional Office awaited. Land acquisition is in progress. Validity of Concurrence to the project expired on 29.07.2020. MOP vide letter dated 22.12.2021 indicated that Heo HEP to be pursued by NEEPCO.
11	Tato-I	SHPPL	West Siang	Yarjep	186	28.10.2015	R	EC accorded on 10.11.2015. FC-I accorded on 27.10.2015. FC-II yet to be obtained. MoEF&CC stated that the matter of shifting of quarry area was considered by FAC and observations of Regional office are being sought & thereafter it will be again considered by FAC. Land acquisition is in progress. Validity of Concurrence to the project expired on 29.10.2020. MOP vide letter dated 22.12.2021 indicated that Tato-I HEP to be pursued by NEEPCO.
12	Dibang [Dibang Storage]	NHPC	lower Dibang Valley	Dibang	2880	18.09.2017	S	EC accorded on 19.05.2015. FC-1 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	R(P)	Both EC and FC are yet to be obtained. MoEF&CC stated that fresh ToR was issued in May'2019. Forest survey under progress. DISCOMS are reluctant to sign long term PPA's for the Hydro Projects. Land Acquisition under process. MOP vide letter dated 22.12.2021 indicated that Attunli HEP to be pursued by SIVNL.
13	Total				15858			
			1					

Note: All projects are in Brahamputra Basin

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

##FRA is under process. In the review meeting held on 29.05.2019 in CEA, Developer stated that FC-II of Tawang-I will be taken up after obtaining FC-II of Tawang-II. There is issue of habitation of Black Necked Crane in the project area. MoEF&CC informed that the report of WII on Black Necked Crane for the project is submitted to MoEF&CC and is under review.MOP vide letter dated 22.12.2021 indicated that Tawang-I HEP to be pursued by NEEPCO. Proposal for Revalidation of Concurrence submitted By M/s NHPC Ltd vide their Letter dated 15.06.2021 for another two years i.e. up to 10.10.2023 has been return on 25.04.2022 due to non-submission of desired information sought vide this office letter dated.06.09.2021.

###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 Her to be pursued by NEEPCO. Proposal for Revalidation of Concurrence submitted By M/s NHPC Ltd vide their Letter dated 15.06.2021 for another two years i.e. up to 22.09.2023 has been return on 28.04.2022 due to non-submission of desired information sought vide this office letter dated.07.09.2021.

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 Hirong 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 90.7.201 informed CFA that allottment of Hirong HEP to Ms. JAPL has evintherawn/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 Hirong 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 tol be pursued by SJVNL.

\$- 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 allottment 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.

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

Sl. No.	Name of Project	Agency	I.C. (MW)	Type (R/S/R(P))	Month of Return/Reason of Return
1	Ranganadi St-II	NEEPCO	130		Returned on 04/06 and NEEPCO has been asked to review the Project and resubmit DPR after cost and tariff are brought down. MOU with State Govt. yet to be signed.
2	Yamne St-II	SSYEVPL	84	R	DPR returned on 05/11 due to inadequate geological investigations at dam site, diversion tunnel, surge shaft & power house etc.
3	Hutong –II	MEIPL	1200	R	The DPR was returned on 5.12 as the Project is now to be developed as storage Project. Hydrology & PPS cleared on 9.5.2011 & 27.3.2012.
4	Kalai-I	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	R	Returned on 02/13 due to non-replying of the comments and likely change in location of Dams benefits from the project, DPR of project has been returned.
6	Sissiri HEP [Sesseri]	SSHPL	100	S	Returned on 06/13 reason being DPR could not be accepted to detailed examination as representation of State Govt. pointed out that irrigation and drinking water component should be internal part of two project and cost of same should be included in cost of project. DPR returned to developer for sort out the issue with State Govt.
7	Gimiliang	SKI Pvt. Ltd.	80	R	DPR returned on 06/13 during presentation meeting held on 03.5.2013 due to inadequate geological investigation. Developer was told to submit revised DPR after carrying out necessary investigation and IC got fixed by CEA.
8	Raigam	SKI Pvt. Ltd.	141	R	DPR returned on 06/13 during presentation meeting held on 03.5.2013 due to inadequate geological investigation. Developer was told to submit revised DPR after carrying out necessary investigation and IC got fixed by CEA.
9	Kangtangshiri	KHPPL	80	R(P)	Returned on 29.07.2013 due to inadequate investigation and in proper layout etc.
10	Nyukcharong Chu	SNCPCL	96	R	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
12	Magochu	SMCPCL	96	R	Developer towards resolving the issues pending with various appraising groups.
13	Tagurshit		74	R	Returned in 06/19.
13	Total		5323		

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

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

32	Total	8696			
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.
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.
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.
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.
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.
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.

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

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

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

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

Sl. No.	Name of Project	I.C. (MW)	River	Date of CEA Concurrence	(R/S/R(P))	Remarks
1	Тато-И	700		22.05.2012	R(P)	EC accorded on 27.6.2011. FC is linked to Cumulative Impact Assessment Study of Siang Basin which has been carried out and accepted by MoEF&CC. There is no need to change in IC but as per recommendations in BSR, FRL needs to be reduced for free flow stretch and hence there may be change in other parameters including shift in location of Dam/ Barrage etc. MOP vide letter dated 22.12.2021 indicated that Tato-II HEP will be pursued by NEEPCO.
2	Dibbin	120	Bichomchhu	04.12.09	R(P)	EC accorded on 23.7.2012. FC-I accorded on 07.02.2012. FC-II yet to be obtained. Project is under consideration for transferr to State Govt./ NEEPCO. Installed capacity of the project is likely to be revised. Accordingly, DPR needs to be re-casted. MOP vide letter dated 22.12.2021 indicated that Dibbin HEP will be pursued by NEEPCO.
3	Siyom (Middle Siang)	1000	Siang	17.12.13	R(P)	EC accorded 31.01.2008. FC is linked to Cumulative Impact Assessment Study of Siang Basin which has been carried out and accepted by MoEF&CC.There is no need to change in IC but as per recommendations in BSR, FRL needs to be reduced for free flow stretch and hence there may be change in other parameters including shift in location of Dam/ Barrage etc.
4	Nafra	120	Bichom	11.02.11	R(P)	EC accorded on 19.08.2013. FC-I accorded on 12.07.2011 & FC-II accorded on 26.06.2012. Government of Arunachal Pradesh vide letter dated 09.07.2021 informed CEA that allotment of Nafra HEP to M/s. SNEL has been withdrawn/ cancelled vide GoArP letter dated 23.12.2019. NEEPCO vide letter dated 23.08.2021 to HPA informed that it has signed MoA with GoArP on 14.08.2021 for Nafra HEP. Subsequently, HPA Division vide letter dated 31.08.2021 requested NEEPCO to submit allotment letter of GoArP and fresh DPR as per revised e-flows under Cumulative Basin Studies of Bichom Basin. NEEPCO vide letter dated 03.09.2021 submitted Allotment letter. MOP vide letter dated 22.12.2021 indicated that Nafre HEP will be pursued by NEEPCO. NEEPCO vide letter dated 10.01.2022 submitted updated hydrology chapter for vetting by CWC.
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.

Note: I	R –Run of the River & S				
47	Total	47 Nos. of			
47	Demwe Upper St-III			202.5	
46	Demwe Upper St-II			270	
45	Tsa Chu-I Lower		R	77	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.
43	Nalo		R	635	State Govt. vide their letter dated 09.07.21 has informed that project has been terminated.
42	Lower Yamne St-II (Yapin)	Yamne	R	87	
41	Digin	Sangti	R	46	

Status of Large Hydro Power Development in Assam

			Nos.	Capacity (MW)
Hydroel	ed Large Hydro Power Polectric Projects s having capacity above 2	9	650	
_	roject Identified after Reas (Projects having capacit	1	120	
		10	770	
I	Projects in operation		3	350
II	Projects Under Active	Construction	1	120
III	Projects allotted by Sta	ites for development		
	(i)	Projects returned to project authorities	1	60
IV	Projects yet to be allot	ed 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	TOTA	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 To	otal	120	

2. H.E. Projects in Operation:

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

^{*} All projects are in Brahamputra Basin

3. H.E. Projects under active construction:

Sl No	Name of Project	Agency	District	River / Basin*	I.C.(MW)	River	Type (R/S/R(P))	Likely Commissioning	
1	Lower Kopili	APGCL	Karbi Anglong & Dima Hasao	Kopili / Brahamputra	120	Kopili	R	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	Туре	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)
Reass	fied Large Hydro Power Potential as per essment Study from Hydroelectric Projects cts having capacity above 25 MW)	15	1761
Hydro	Project Identified after Reassessment Study from electric Projects cts having capacity above 25 MW)	1	66
	ets Identified in this State but developed/being oped in other State #	-1	-210
	Total	15	1617
Ι	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	TO	TOTAL		

^{*}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 To	66		

2. H.E. Projects in Operation:

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

3. 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	Type (R/S/R(P))	Status
1	Loktak D/S	LDHCL	Leimatak/ Brahmputra	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. High tariff and State Govt Grant issues preventing take-off of project.

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

_		Projects dropped due to basin studies/ Other reasons:									
S	l. 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	Туре	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	Bungpuilong	Tuivai	S	80
11	Irang	Irang	S	75
12	Pabaram (Pabaram Stor.)	Barak	S	232
12	Total	12 Nos. of	936	

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

Status of Large Hydro Power Development in Meghalaya

			Nos.	Capacity (MW)
Stu	dy fron	Large Hydro Power Potential as per Reassessment n Hydroelectric Projects naving capacity above 25 MW)	25	2298
Нус	droelec	ects Identified after Reassessment Study from tric Projects aving capacity above 25 MW)	4	412
		Total	29	2710
Ι	Proje	cts in operation	5	322
II	Proje	cts 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	Proje	cts dropped due to Basin studies/ Other reasons	1	210
IV	Proje	cts stuck due to Inter-State/ Other Issues	1	270
V	Proje	cts 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

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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 To	otal	412	

2. H.E. Projects in Operation:

S. No.	Utility/Stations	No. of Stns.	No. of units x Capacity (MW)	River / Basin*	District	I.C. (MW)	Type (R/S/R(P))	Year of commissioning
	MePGCL		•					
1	KYRDEMKULAI [Umiam Umtru-III]	1	(2X30)	Tail water of Umiam stage-II & Umtru river	RI-BHOI	60	R(P)	1979
2	UMIAM ST-I	1	(4X9)	UMIAM	RI-BHOI	36	S	1965
3	NEW UMTRU	1	(2X20)	UMTRU	RI-BHOI	40	R(P)	2017
4	UMIAM ST-IV	1	(2X30)	Tail water of Stage-III PH & own catchment	RI-BHOI	60	R(P)	1992
5	MYNTDU ST-I	1	(3X42)	MYNTDU	JAINTIA HILLS	126	R(P)	2012
5	TOTAL MePGCL	5				322		

^{*} All projects are in Brahamputra Basin

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

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

[#]EC recommended by EAC on 26.02.2018. However, EC will be issued immediately on submission of Stage-I Forest Clearance.

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

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

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

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

Sl. No.	Name of Project	Basin /River	Agency	I.C. (MW)	Type (R/S/R(P))	Date of MOA	Target date of Preparation of DPR
1	Myntdu Leshka st-II	Myntdu	MePGCL	210	R	20.4.12	Dec-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	Туре	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)
Reasses	ed Large Hydro Power Potential as per sment Study from Hydroelectric Projects s having capacity above 25 MW)	7	2131
Hydroel	roject Identified after Reassessment Study from ectric Projects s having capacity above 25 MW)	1	460
	Identified in other State but developed/being ed 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)

S1.No.	Name of Project	River	I.C. (MW)	Status
1	Kolodyne St.II	Kolodyne	460	Dropped
1	Sub To	otal	460	

2. H.E. Projects in Operation:

S. No.	Utility/Stations	No. of stns.	No. of units x Capacity (MW)	River / Basin*	District	I.C. (MW)	Type (R/S/R(P))	Year of commissioning
	NEEPCO							
1	TUIRIAL [Sonai]	1	(2X30)	TUIRIAL/ BRAHAMPUTRA	KOLASIB	60	S	2017
1	TOTAL MIZORAM	1				60		

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

Sl No.	Name of	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	Type (R/S/R(P))	Remarks
1	Kolodyne St-II	460	Kolodyne	Brahmaputra	S	Forest proposal submitted to State Govt. on 20.12.2010. The project is likely to be 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	Туре	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	2076	

Status of Large Hydro Power Development in Nagaland

		Nos.	Capacity (MW)
Reassessi	Large Hydro Power Potential as per ment Study from Hydroelectric Projects having capacity above 25	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	Sakhai-II Tizu	
7	Khuzami	Tizu	32
8	Rurrur	Zangki	36
9	Zungki	Zangki	48
10	Laruri	Tizu	80
11	Tizu	Tizu	365
11	TOTAL		1452

2. H.E. Projects in Operation:

S. No.	Utility/Stations	No. of Stns.	No. of units x Capacity (MW)	River / Basin	District	I.C.(MW)	Type (R/S/R(P))	Year of commissioning
	NEEPCO							
1 1	DOYANG (Doyang-V)	1	(3X25)	DOYANG / Brahamputra	WOKHA	75	S	2000
	TOTAL NAGALAND	1				75		

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

Sl No.	Name of Project	Agency	District	River / Basin	I.C. (MW)	Date of CEA Concurrence	Type (R/S/R(P))	Status
1	Dikhu (Dikhu Lift Dam)	NMPPL	Longleng	Dikhu and Yangnyu / Brahamputra	186	31.03.2014	K	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	Туре	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
	Unit-I	5.00 MW	1976	Phase I
Gumti H.E. Project	Unit-II	5.00 MW	1976	
	Unit-III	5.00 MW	1984	Phase II