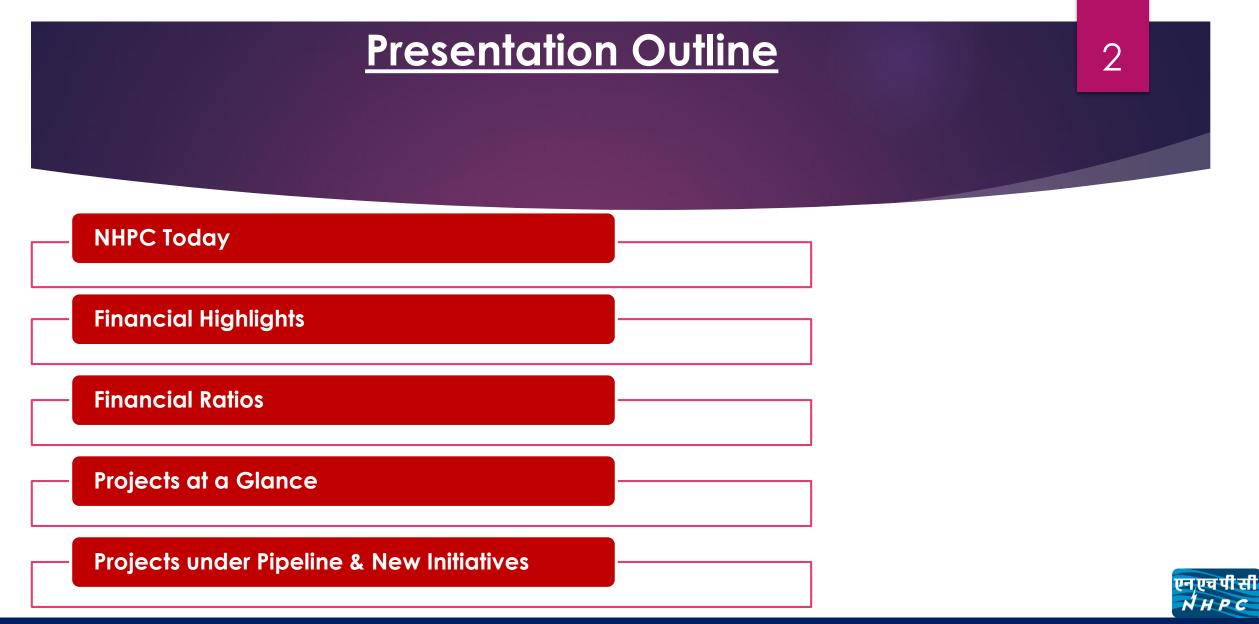


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Clean Power For Every Home

INVESTOR PRESENTATION FINANCIAL YEAR 23-24 : December 2023





Our Vision: To be a global leading organization for sustainable development of clean power through competent, responsible and innovative values.

NHPC-Today

3

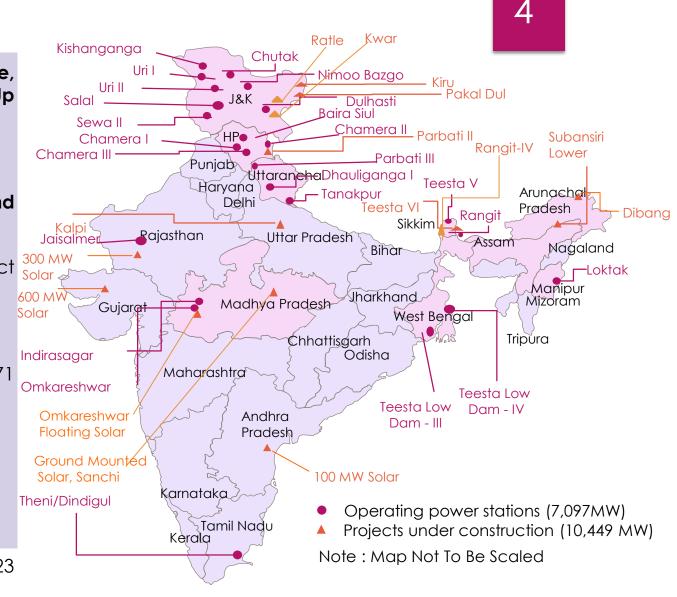


NHPC-Energising India With Hydropower

PHYSICAL SNAPSHOT

Incorporated in 1975 with authorised capital of Rs. 200 crore, the present authorised capital is Rs.15000 crore (Paid Up Capital Rs.10,045 crore)

- Mini-Ratna Category-I PSU (since Apr-08)
- Established track record, strong operational performance and in-house engineering capabilities
- Involved across the entire chain of hydro power project development – from concept to commissioning.
- Presence across 13 states & 2 UTs.
- 15% share of installed hydro-electric capacity in India (6,971 MW out of 46,910 MW*).
- Consultancy business.
- Power trading business.
- Exposure to international business opportunities.



* Source-CEA as on 31.12.2023

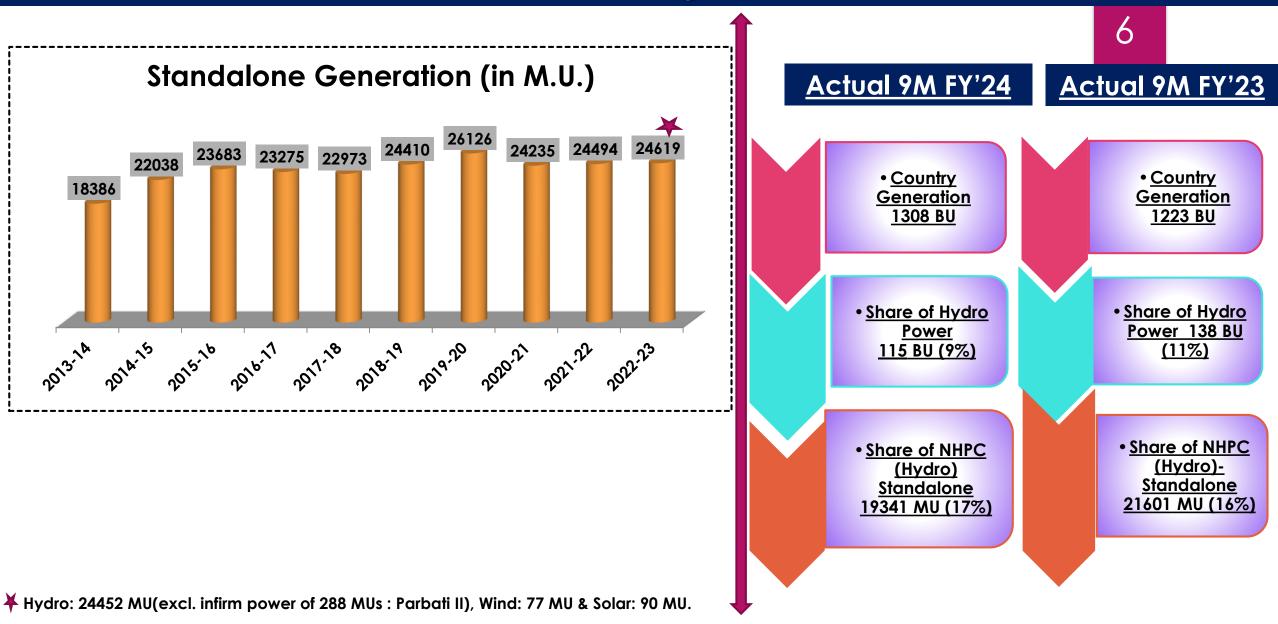
7097 MW installed capacity (6971 MW Hydro & 126 MW Renewable Energy) through 25 power stations

PHYSICAL SNAPSHOT

Installed Capacity	 Power Stations under Operation-22 Nos. (5551 MW*) Power Stations with Subsidiary - 3 Nos. (1546 MW**) Total Operational Projects – 25 Nos. (7097 MW) 	Hydro Power is 11% (46 All India Installed Capac MW#) . NHPC Contribution is 15% Hydro Power On Consolid	of Installed
	Projects Under Construction (including	Status	Capacity (MW)
Under Construction	Subsidiary & JV) :-	Operational Projects	7,097
	• Hydro & Solar - 15 Nos. (10449 MW)	Projects Under Construction (including Subsidiary & JV)	10,449
		Projects Under Clearance:	
Awaiting	Projects Awaiting Clearances : -	Stand alone	3,116
Awaiting	• Standalone - 4 Nos. (3116 MW)	Subsidiaries	996
	• Subsidiary – 2 No. (996 MW)	Projects Under Survey & Investigation	4110
		Total	25,768
Under Survey &Investigation	 Projects under Survey & Investigation - 4 Nos. (4110 MW) 	Including 50 MW Wind Power Pro MW Solar Power Project, Tamilna ** including part commissioning of Power Project in the state of Utto #Source-CEA as on 31.12.2023	du. of 26 MW of Kalpi Sola



NHPC 's Track Record – A Ten Year Digest



Nation Building Through Sustainable Power Development

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NHPC

Financial Highlights

Sewa II, UT of J&K

Clean Power For Every Home

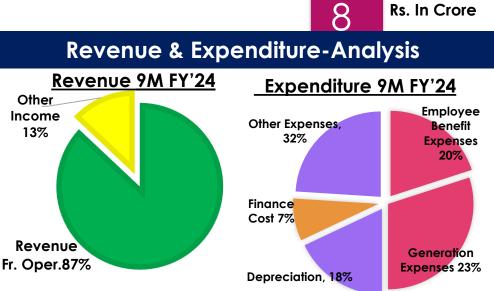


Financial Highlights : Standalone

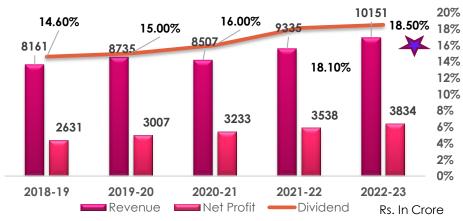


Rs. In Crore

	FY'	24	FY'23			% Cho		
Particulars	Nine Months	Qtr-3	Nine Months	Qtr-3	Full Year	Nine Month	Qtr-3	
Revenue from Operation	6753.37	1697.02	7598.91	2272.20	9316.34	-11.13	-25.31	O
Other Income	1029.19	621.08	580.78	249.07	834.56	77.21	149.36	Inc 1
Total Income (A)	7782.56	2318.10	8179.69	2521.27	10150.90	-4.86	-8.06	
Generation Expenses	1061.22	146.53	784.39	147.31	936.46	35.29	-0.53	
Employee Benefits Expenses	927.77	309.18	884.42	286.68	1301.35	4.90	7.85	Re Fr. C
Finance Cost	330.59	101.27	363.95	120.23	476.16	-9.17	-15.77	
Depre. & Amort. Expense	830.81	278.20	859.19	288.04	1145.44	-3.3	-3.42	
Other Expenses	1527.75	803.01	1221.49	363.06	1707.89	25.07	121.18	
Total Expenditure(B)	4678.14	1638.19	4113.44	1205.32	5567.30	13.73	35.91	12000 10000
PBT(Before RRA)(C=A-B)	3104.42	679.91	4066.25	1315.95	4583.60	-23.65	-48.33	
Rate Regu. Income (D)	69.50	23.56	-359.97	-547.90	-144.41	-119.31	-104.3	6000 4000
PBT (After RRA) (E=C+D)	3173.92	703.47	3706.28	768.05	4439.19	-14.36	-8.41	
Tax (F)	127.74	157.34	441.96	-13.61	605.40	-71.1	-1256.1	0
Profit After Tax (G=E-F)	3046.18	546.13	3264.32	781.66	3833.79	-6.68	-30.13	



Revenue Vs. Net Profit Vs. Dividend



Statement of Assets & Liabilities

s. In Crore	एन एच पी सी <i>N H P C</i>
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Equity and Liabilities	9M FY'24	FY'23
Share Holder's Funds	38088.22	35407.96
Long Term Borrowings	24766.39	25254.69
Long Term Lease Liabilities	18.80	11.70
Deferred Tax Liabilities	1508.89	1937.34
Other Long term Liabilities & Provisions	4343.61	4138.55
Current Liabilities & Provisions	8440.06	7041.68
Regulatory Deferral Account Credit Balances	923.20	923.20
Total Equity & Liabilities	78089.17	74715.12
Assets		
PPE (incl. investment property)	16695.58	17439.52
Capital Work in Progress	28511.51	25315.01
Right of Use Assets	2618.29	2625.70
Intangible Asset (including under development)	181.93	3.08
Non Current Financial Asset	11481.14	11583.30
Non Current Assets (Others)	3663.13	3633.04
Regulatory Asset	6489.62	6420.12
Trade Receivables	4638.63	5487.59
Cash and Bank Balances	1487.11	638.22
Current Assets (Others)	2322.23	1569.54
Total Assets	78089.17	74715.12

Debtors Position

Rs	In	Cror
KS.		CIUN

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Total Debtors (in Crs.)										
Particulars	As on 31.12.2023	As on 30.09.2023	As on 30.06.2023	As on 31.03.2023	As on 31.12.2022					
Trade Receivables	4642 (including unbilled debtors	5970 (including unbilled debtors	6736 (including unbilled debtors	5887 (including unbilled debtors	5819 (including unbilled debtors					

		of Rs. 2309 Crs.)	of Rs. 2685 Crs.)	of Rs. 3059 Crs.)	of Rs. 2757 Crs.)	of Rs. 2717 Crs.)
2	More than 45 days*	395	367	335	168	229

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1

Top Five Debtors* (in Crs.)										
Name	3	1.12.2023	N. S. S. S. S. S. S. S.	31.03.2023						
	Total	More than 45 days	Total	More than 45 days						
PDD, J&K (Incl. JKPCL)	1264	124	1855	5						
U.P.	1230	0	1543	0						
Rajasthan	467	147	442	99						
Punjab	392	62	471	23						
Chhattisgarh	244	0	226	0						

* Net of Provision

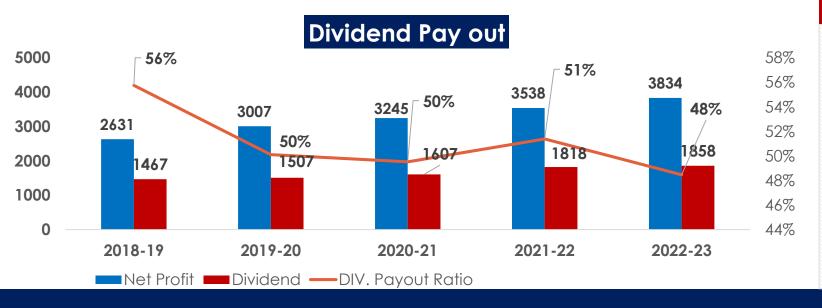
Incentives Position



_												
	Comparative Incentive YoY (in Crs.)											
SI.	Particulars			FY23-24					FY22-23			
		Q-1	Q-2	Q-3	Q-4	Total	Q-1	Q-2	Q-3	Q-4	Total	
1	Secondary Energy	0.00	5.64	16.24		21.88	0.00	0.00	13.61	109.65	123.26	
2	Incentives	0.00	0.00	64.51		64.51	171.44	181.22	92.15	(39.65)	405.16	
3	Deviation Chrgs.	11.52	9.59	13.27		34.38	72.14	47.25	29.20	(2.09)	146.50	
	G. Total	11.52	15.23	94.02	and an and a second	120.77	243.58	228.47	134.96	67.91	674.92	
4	PAF	94.13%	89.78%	71.73%		85.17%	98.57%	99.87%	88.25%	67.96%	88.75%	
		Supplen	nents					Supple	ements			
	Power Station Wit NAPAF : 64%)	th Highest PA	AF : Salal (P/	AF: 100.58%,		Power Station with Highest PBT- Dulhasti (Rs. 511 Crs)					F B	
Power Station with highest Deviation Charges: Teesta-V (Rs. 7 Cr.)					5. 7	NHPC Profit per MW: Rs. 55 lakhs (9M FY'24), Rs. 59 lakhs (9M FY'23)					akhs (9M	
Power Station Giving Best Generation : Chamera-I (116% of the annual design energy)					6%	NHPC Profit per Employee: Rs. 63 lakhs (9M FY'24), Rs. 67 lakhs (9M FY'23)					. 67 lakhs	

Key Financials : 9M FY'24

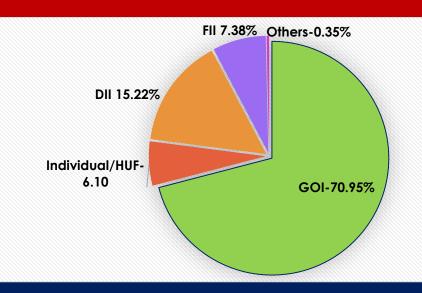
P&L	Standalone	Balance Sheet	Standalone	12	Rs. In Crore
Total Income	7783	Share Capital	10045		
EBITDA	4266	Net worth	38088		
EBITDA Margin	55%	Long Term Debt	24766		
PAT	3046	Cash & Bank Bal.	1487		
Profit Margin	39%	Gross Block	40307		
Dividend Pay Out (FY'23)	Rs. 1.85 Per Share/ 48% of Profit	CWIP	28512		





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NHPC



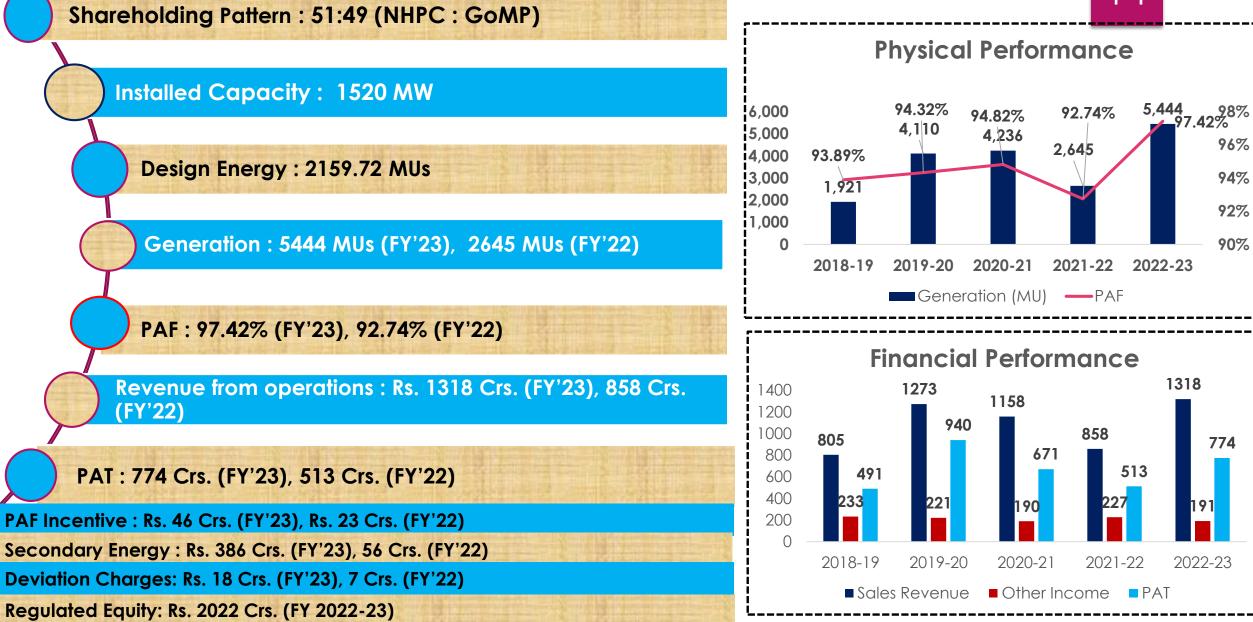
NHPC – Key Ratios

S. No. Particulars		9M F	Y'24	FY'23			
Particulars		Standalone	Consolidated	Standalone	Consolidated		
1.	PAT (Rs. in Cr.)	3046.18	3074.61	3833.79	3889.98		
2.	Net-worth (Rs. in Cr.)	38088.22	39668.44	35407.96	36899.34		
3.	No. of Equity Shares (In Cr.)	1004.50	1004.50	1004.50	1004.50		
4.	EPS (Rs.)	3.03 *	3.06*	3.82	3.87		
5.	Earning Yield(%)**	3.15*	3.18*	9.50	9.63		
6.	Dividend Per Share (Rs.)			1.8	35		
7.	Dividend Yield(%)**			4.0	50		
8.	Book Value per share (Rs.)	37.92	39.49	35.25	36.73		
9.	PB Ratio**	2.54	2.44	1.14	1.09		
10.	PE Ratio**	23.82	23.59	10.52	10.39		
11.	Return On Net worth (%)	8.00*	7.75*	10.83	10.54		
12.	Market Capitalisation (Rs. in Cr.)**	96683 40381			381		
13.	Debt Equity Ratio	0.79	0.82	0.85	0.86		

*Not annualised. **Stock Price (BSE): as on 08.02.2024 Rs. 96.25 & as on 31.03.2023 Rs. 40.20.

NHDC Ltd. (Subsidiary) – Snapshots : FY 22-23





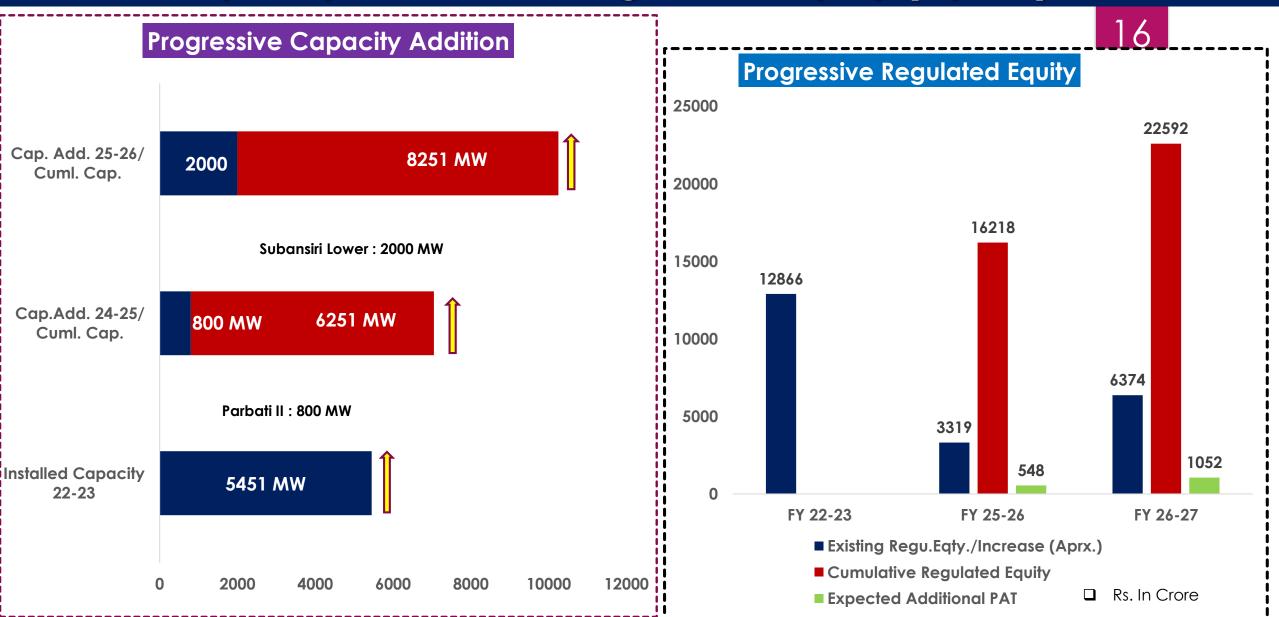
NHDC Ltd. – Financial Highlights : 9M FY 23-24



15 Rs. In Crore

	FY'2	24	FY'23			% Change		
Particulars	Nine Months	Qtr-3	Nine Months	Qtr-3	Full Year	Nine Months	Qtr-3	
Actual Generation (in MU)	3807	949	4444	1257	5444	-14.33	-24.50	
Actual PAF (in %)	96.45	99.73	96.38	105.90	97.42	0.07	-6.17	
Revenue from Operations	1024.48	370.53	1001.91	320.23	1318.41	2.25	15.71	
Total Income	1193.86	433.28	1143.85	371.60	1509.35	4.37	16.60	
Profit After Tax (PAT)	686.44	275.95	639.34	222.90	800.52	7.37	23.80	
PAF Based Incentive	32.28	14.95	30.95	21.80	45.99	4.30	-31.42	
Secondary Energy	256.34	47.17	332.77	84.06	386.37	-22.97	-43.89	
Deviation Charges	12.33	8.34	17.48	8.10	18.18	-29.46	2.96	

NHPC - Capacity Addition & Regulated Equity (Hydro)



Power Station with highest generation during 9M FY'24 : Salal (3018 MU, Annual D.E-3082 MU)

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NHPC – CAPEX



F.Y	Amount (Rs. In Crore)	Remarks
2015-16	2793	(Actual)
2016-17	2438	(Actual)
2017-18	2722	(Actual)
2018-19	2213	(Actual)
2019-20	4155	(Actual)
2020-21	3568	(Actual)
2021-22	5166	(Actual)
2022-23	6961	(Actual – Consolidated)
2023-24	10857	(Consolidated Target)







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- Government of Arunachal Pradesh has conveyed its approval on 21.07.2023 for allotment of two projects i.e. 2000 MW Subansiri Upper Hydroelectric Project and 1800 MW Kamala Hydroelectric Project to NHPC. MoA with the Govt. of Arunachal Pradesh has been signed on 12.08.2023.
- NHPC has commissioned 380 MW Solar Power Project at Neemba, Fatehgarh, Rajasthan on 7th February'24 through the developer M/s Altra Xergi Power Private Limited. Out of total 2000 MW awarded earlier by NHPC, 320 MW was already commissioned during FY 2022-23, making cumulative commissioned capacity of 700 MW as intermediary procurer.
- An MOU has been signed between NHPC and Govt. of Odisha through GRIDCO Limited on 23.06.2023 for "Development of Pumped Storage Projects and Renewable Energy in the State of Odisha".
- NHPC has issued Letter of Award (LOA) to 8 successful bidders on 07.12.2023 for "Development of 3000 MW ISTS (Inter State Transmission system) connected solar power projects on anywhere in India basis". The discovered tariff in the said bidding process by NHPC is Rs. 2.52/unit for 250 MW and Rs. 2.53/unit for 2750 MW.
- NHPC signed an MOU on 23.08.2023 with Andhra Pradesh Power Generation Corporation (APGENCO) Limited (A Govt. of Andhra Pradesh Undertaking) for Implementation of Pumped Hydro Storage Projects and Renewable Energy Projects under Joint Venture Mode in Andhra Pradesh. The MOU envisages Implementation of two Identified Pumped Hydro Storage Projects namely Kamlapadu-950 MW and Yaganti-1000 MW PSPs in the first phase.

NHPC Projects At A Glance



NHPC-Energising India With Hydropower



NHPC: Hydro Projects Under Construction

Standalone

NHPC Project	Installed Capacity (MW)	Design Energy (MU)	Type of the project	CCEA Estimated Cost (Rs. Crore) (Price Level)	Anticipated Project Cost (Rs. Crore)	Provisional Project Expenditure till –Dec'23 (Rs. Crore)	Expected Commissioning Schedule
Parbati II, (4X200) Himachal Pradesh	800	3124	Run of River with small pondage	3919.59 (Dec'01)	11063.49 (July'22)	10908.94	FY 24-25 (Q-2)
Subansiri Lower, (8X250) Assam/ Ar. Pradesh	2000	7422	Run of River with small pondage	6285.33 (Dec'02)	21247.54 (completion level))	20030.23	FY 25-26 (Q-1)
Dibang, (12X240) Arunachal Pradesh	2880	11223	Hydropower cum flood moderation scheme	31876.39 (May'21)	31876.39 (May'21)	2274.72	FY 31-32 (Q-4)
Total (A)	5680	21769		42081.31	64187.42	33213.89	



NHPC: Hydro Projects Under Construction

Subsidiary

NHPC Project	Installed Capacity (MW)	Design Energy (MU)	Type of the project	CCEA Estimated Cost (Rs. Crore) (Price Level)	Anticipated Project Cost (Rs. Crore)	Provisional Project Expenditure till – Dec'23 (Rs. Crore)	Expected Commissioning Schedule
Rangit-IV, (3X40) Sikkim	120	508	Run of River	938.29 (Oct'19)	938.29 (Oc†'19)	888.47	FY 24-25 (Q-2)
Kiru, (4X156) UT of J&K	624	2272	Run of River	4287.59 (July'18)	4287.59 (July'18)	1489.99	FY 25-26 (Q-4)
Ratle, (4X205+30) UT of J&K	850	3137	Run of River	5281.94 (Nov'18)	5281.94 (Nov'18)	556.37	FY 26-27 (Q-1)
Teesta-VI, (4X125) Sikkim	500	2400	Run of River	5748.04 (July'18)	5748.04 (July'18)	3064.50	FY 26-27 (Q-2)
Pakal Dul, (4X250) UT of J&K	1000	3230	Run of River	8112.12 (Mar'13)	8112.12 (Mar'13)	3756.54	FY 26-27 (Q-2)
Kwar, (4x135) UT of J&K	540	1975	Run of River	4526.12 (Sept.20)	4526.12 (Sept.20)	559.40	FY 26-27 (Q-3)
Total (B)	3634	13522		28894.10	28894.10	10315.27	
Total (A+B)	9314	35291		70975.41	93081.52	43529.16	



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Standalone



22

S.No	Name of Project	Capacity (MW)	Estimated Capital Cost (in Crs.)	Expected Commissioning Schedule	Tariff (Rs./unit)	Status of PPA
1	600 MW Grid Connected Solar Power Project under CPSU Scheme, Gujarat	600	4295.63	2025-26 (Transmission system for power evacuation at KPS-1, Khavda ISTS Sub-station is likely to be ready by Jan-2026)	2.45	Power Usage Agreement signed with DISCOMs (Telangana) for 500 MW on 28.03.2023 and with PSPCL (Punjab) for 100 MW on 16.05.2023.
2	300 MW Grid Connected Solar Power Project under CPSU Scheme, Rajasthan	300	1731.57	2024-25	2.45	Power Usage Agreement signed with PSPCL (Punjab) for 300 MW Project on 16.05.2023.
3	100 MW Grid Connected Solar Power Project under CPSU Scheme, Andhra Pradesh	100	577.20	2024-25	2.45	Power Usage Agreement signed with WB Discom for 100 MW Project on 23.11.2022.
	Total (A)	1000	6604.40			

Project Under Construction-Subsidiary



S.No	Name of Project	Capacity (MW)	Estimated Capital Cost (in Crs.)	Expected Commissioning Schedule	Tentative Tariff (Rs./unit)	Status of PPA
1	Solar Power Project, Kalpi (UP) (Subsidiary-BSUL)	39	312.00	2023-24 (Partial Commissioning of 26 MW out of total 65 MW installed capacity achieved on 09.07.2022)	2.68	Power Purchase Agreement has been executed between BSUL and UPPCL on 28.04.2022.
2	Omkareshwar Floating Solar Park (MP) (Subsidiary – NHDC)	88	589.16	2023-24	3.22	Power Purchase Agreement has been Signed between MPPMCL, RUMSL & NHDC Ltd on 04.08.2022.
3	Ground Mounted Solar PV Pant at Sanchi (M.P.) (Subsidiary – NHDC)	8 51.90		2023-24	3.22	Power Purchase Agreement has been Signed between MPPMCL and NHDC Ltd on 26.12.2022.
	Total (B)	135	953.06			
	Total (A+B) 1135 7557.46					
	Total Under Construction10449100638.98projects (Hydro & Solar)10449					

NHPC: Solar Project Under Construction

Standalone (As Intermediary Procurer)



S.No	Name of Project	Capacity (MW)	Estimated Capital Cost (in Crs.)	Expected Commissioning Schedule	Tariff (Rs./unit)	Status of PPA
1	Projects through Solar Power Developers, Rajasthan	2000	0.00	2023-24 / 2024-25 (Out of 2000 MW, 320 MW capacity was awarded to M/s Avaada Sunrays Energy Pvt. Limited which has been commissioned on 10.12.2022 and 380 MW capacity was awarded to M/s Altra Xergi Power Private Limited which has been commissioned 07.02.2024.) 400 MW project is aligned to be commissioned within one month of respective ISTS Commissioning [i.e. May-2025 (for 400 MW)]. Further, Balance capacity of 1300 MW is expected to be commissioned by 2024-25)	,	PPA and PSA signed. Tariff adopted by CERC
	Total-(a)	2000	0.00			

Projects under Pipeline

Hydro Power □Solar Energy



Clean Power For EVERY HOME

NHPC: Solar Projects under Tender and pipeline

A. Standalone (Ownership Based)

26

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(a) Tender Stage

S.No	Name of Project	Capacity (MW)	Estimated Capital Cost (in Crs.)	Expected Commissioning Schedule	Tentative Tariff (Rs./unit)	Status of PPA
1	Floating Solar Kerala (50MW), West Kallada	50	326.00	2024-25	4.00	PPA under exploration
2	200 MW Grid Connected Solar photovoltaic Power Projects located in 600 MW Solar Park at Khavda, Gujarat	200	1100.00	2025-26	2.73	PPA signed with GUVNL on 10.08.2023
3	40 MW Solar power project in Odisha	40	215.00	2024-25	3.25	to be explored after EPC price discovery
	Total-A	290	1641.00			

NHPC: Solar Projects under Tender and pipeline

B. Subsidiary/JV Mode

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27

(a) Tender Stage

S.No	Name of Project	Capacity (MW)	Estimated Capital Cost (in Crs.)	Expected Commissioning Schedule	Tentative Tariff (Rs./unit)	Status of PPA
1	300 MW Floating Solar Project at Rengali Reservoir, Odisha	300	2250.00	2025-26	5.00	PPA under exploration
	Total-(a)	300	2250.00			

(b) Under Pipeline

S.No	Name of Project	Capacity (MW)	Estimated Capital Cost	Expected Commissioning Schedule	Tentative Tariff (Rs./unit)	Status of PPA
1	Solar Park, Jalaun (U.P.) under UMREPP (Subsidiary -BSUL)	1200	840.00	2025-26	To be discovered	To be explored subsequently
	Total- (b)	1200	840.00			
	Grand Total- B (a+b)	1500	3090.00			
	Grand Total (A+B)	1790	4731.00			

NHPC: Solar Projects under Tender and pipeline

Standalone (As Intermediary Procurer)



28

(a) Tender Stage

S.No	Name of Project	Capacity (MW)	Estimated Capital Cost (in Crs.)	Expected Commissioni ng Schedule	Tentative Tariff (Rs./unit)	Status of PPA
1	Bidding Trajectory for 10 GW Renewable Energy Tenders	3000 (Solar)	0.00	24 months from PPA signing date	2.52 for 250 MW & 2.53 for 2750 MW	Tariff discovered, PPA under exploration
		1500 (Firm & Dispatchable (RTC) RE Power	0.00	24 months from PPA signing date	Under tendering	To be explored after discovery of tariff
		1 500 (Solar & Wind Hybrid)	0.00	24 months from PPA signing date	Under tendering	To be explored after discovery of tariff
		1300 (Wind)	0.00	24 months from PPA signing date	Under tendering	To be explored after discovery of tariff
	Total-(a)	7300	0.00			

NHPC: Hydro Projects Under Clearance

Standalone



S. N.	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Crore) & PL	Status
1	Teesta- IV (4x130) Sikkim	520	2252	6113 (Apr'21)	 All statutory clearances have been received except forest clearance (stage-II). Approval for pre-investment activities received on 03.05.2016. Regular persuasion is being done with State Government for expeditiously resolving the
	<u> 3ΙΚΚΙΓΙ</u>				issues of compliance of Forest Clearance (Stage-II) related to FRA, 2006 and acquisition of 181.06 ha private & departmental land.
					 Rehabilitation & Resettlement committee has been constituted by Govt. of Sikkim on 03.08.2023. Defence Clearance: NoC accorded on 30.08.2023.
2	Dugar	500	1760	4250	• MOU signed on 25.09.2019 at Shimla and NHPC signed Implementation Agreement with
	(4 x103 + 2x44)			(Apr'2021)	Govt. of Himachal Pradesh on dated 26.08.2022.
	, Himach al				Defence Clearance issued by Ministry of Defence on 18.11.2020.
	Pradesh				 CEA accorded the Concurrence on 26.04.2022. The completion cost of the project is Rs. 4250.20 Crore with Levellised Tariff Rs. 4.46/unit.
					IWT clearance accorded on 01.05.2023.
					• EAC vide MoM dated 06.09.22 recommended project for accord of Environment Clearance subject to submission of FC-1 by the Developer.
					Forest clearance is in progress.

NHPC: Hydro Projects Under Clearance

Standalone



S.No.	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Crore) & PL	Status
3	Sawalkot (6x225+1x56) UT of J&K	1856	7995	22704.80 (Completion)	 The project shall be executed by NHPC on BOOT basis for the period of 40 years. NHPC has taken over the Project from JKSPDC. The Ministry of Power has accorded approval on 12.07.2022 for incurring expenditure on pre investment activities for an amount of ₹ 973 crore at Nov.2021 Price Level. CEA vide letter dated 27.12.2022 vetted the cost estimates at completion level for an amount of ₹22704.80 crore including ₹4593.41 crore for IDC and ₹1124.20 crore for enabling infrastructure.
4	Uri-I Stage-II (2x120) UT of J&K	240	932.6	2526.79 (Completion)	 Forest clearance is in progress. MOU has been signed between NHPC Ltd. and JKSPDCL on 03.01.2021. The project shall be executed by NHPC on BOOT basis for the period of 40 years. MOEF&CC vide letter dated 10.06.2021 has conveyed the approval to the TOR.
					 The EIA&EMP reports are finalized and draft EIA Report submitted to J&K Pollution Control Committee on 02.11.2023 for Public Hearing. Public Hearing was conducted on 21.12.2023 and proceedings were submitted to MoEF&CC on 28.12.2023. Process for obtaining forest clearance is in progress. DPR concurred by CEA on 07.03.2023 amounting to ₹2526.79 crore at completion level including ₹249.45 crores for IDC and ₹26.20 crores for enabling infrastructure.
	Total	3116	12939.6	35594.59	

Hydro Project Under Clearance

Subsidiary



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S.No	Projects	Installed Capacity (MW)		Cost (In Cr.) & PL	Status
1	Kirthai-II (6x140 + 2x35 + 2x10)	930	3330	6384 (Feb'20)	•MOU has been signed between NHPC Ltd. and JKSPDCL on 03.01.2021.
	UT of J&K				•The project shall be executed by M/s CVPPPL on the same terms and conditions of that of Pakaldul, Kiru & Kwar H E Projects.
					•The Appraisal has been transferred in the name of CVPPPL by CEA on 29.12.2021. Balance investigation works are in progress in compliance to DPR concurrence.
					• Defence Clearance was accorded by MoD on 24.03.2022.
					•Extension of validity of appraisal up to 13.06.2024 was accorded by CEA on 29.08.2022. Balance investigation works are in progress in compliance to DPR concurrence.
					•EAC had recommended for grant of Environment Clearance (EC) to the project on 15.04.2021. MoEF vide letter dated 24.5.2021 has intimated JKSPDC that EC shall be accorded after Stage-I Forest Clearance is granted.
					• Application for FC on Parivesh Portal of MOEF&CC submitted successfully on dated 19.10.2022.

NHPC: Hydro Project Under Clearance

Subsidiary



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.57	

S.No	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Cr.) & PL	Status
2	Loktak D/S (2x33) Manipur	66	333.76	1311 (Jul 20)	 All statutory clearances of project except CCEA are available. PPA signed between Govt. of Manipur and LDHCL on 31.08.2020. PIB Memo meeting held on 14.07.2021. As per PIB minutes, Cost (at completion) of Project without & with establishment cost till zero date, likely year wise phasing of expenditure at Completion Cost (including establishment cost till zero date) during project cycle and funds to be made available by State Govt. of Manipur & Tariff calculations furnished to MoP vide letter dated 16.08.2021 for further direction & necessary action. NHPC shared the above information with Govt of Manipur as per direction of PIB vide letter dtd 19.08.2021. Additional Secretary, MOP & Secretary (Power), MoP vide DO dated 05.10.2021 & 22.11.2021 respectively requested Chief Secretary, Govt of Manipur to look into the matter and expedite the confirmation of Govt. of Manipur. Secretary (Power) vide DO dtd 24.03.2022 conveyed to Chief Secretary, Manipur that as commitment from Government of Manipur towards the project is still awaited, the Ministry is now constrained to drop the ongoing proposal. Comments of JS (Power), GoM dated 23.06.2022, forwarded by MSPCL to LDHCL on 30.06.2022, were replied by NHPC on 13.07.2022. Same was further submitted to MSPCL by LDHCL on the same day. CEA has declined to extend the validity of the concurrence of DPR vide their letter at 04.08.2022. LDHCL BoDs in its 66th meeting held on 07.08.2023 has directed to initiate the closure procedure of company and authorized CEO of the company to start writing to the promoters for closure of the Project.
	TOTAL	996	3663.76	7695	

NHPC: Hydro Projects Under Survey & Investigation



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S. No.	Projects	State	Installed Capacity (MW)	Status
Projec	ts Under FR/DP	R Preparation		
1	Garba Tawaghat (3x210)	Uttarakhand	630	 Cost of project is Rs. 5389.46 crore at Mar' 2022 PL with Levellised Tariff Rs. 4.29 /unit. Implementation of the project is on hold for obtaining consent of Govt. of Nepal. 7th JSTC & 9th JCWR meeting was held on 21st - 23rd September '2022 at Kathmandu, Nepal. During the meeting, it was agreed that Indian side shall send a team to hold further discussion with Nepali side in next three months. NHPC vide e-mail dated 07.06.2023, requested MEA to provide on update on the issues related to Garba Tawaghat, Link road and link canal. MEA vide mail dated 10.06.2023 requested NHPC to coordinate with Commerce representative, Indian Embassy Kathmandu to follow up Indo-Nepal issues. NHPC took up the matter with Mission, Embassy of India, Kathmandu, who vide e-mail dated 22.06.2023 requested NHPC to propose a date to discuss Garba Tawaghat HE Project with representatives of Ministry of Energy, Water Resources and Irrigation, Govt of Nepal, Officials of NEA and IBN. NHPC vide letter dated 06.07.2023 requested MoP to coordinate with MEA to support NHPC in obtaining consent from Govt. of Nepal. NHPC is pursuing the matter with Indian Embassy Nepal. The matter was discussed in the 11th Indo-Nepal JWG meetings held on 3rd January 2024 at Kathmandu Nepal.

NHPC: Hydro Projects Under Survey & Investigation





S. No.	Projects	State	Installed Capacity (MW)	Status
Projects	s Under FR/DPR Prep	aration		
2	Dulhasti Stage-II (2x130)	UT of Jammu & Kashmir	260	 MOU has been signed between NHPC Ltd. and JKSPDCL on 03.01.2021. The project shall be executed by NHPC on BOOT basis for the period of 40 years. 1st Consultation Meeting with CEA for preparation of DPR was held on 17.03.2021 and Minutes of Meeting (MOM) was issued on 25.03.2021. MoEF&CC vide letter dated 16.07.2021 has conveyed the approval to the ToR for EIA/ EMP studies of the project. EIA/ EMP studies awarded on 08.09.2021 and are in progress. No forest clearance is required. NOC has been obtained from Forest department. Defence Clearance has been accorded by MoD on 03.01.2022. As per revised guidelines, all (14 nos.) Pre-DPR chapters have been submitted to concerned directorates of CEA/CWC/GSI/CSMRS etc. out of 14 Chapters, 12 Chapters cleared.

NHPC: Hydro Projects Under Survey & Investigation





S. No.	Projects	State	Installed Capacity (MW)	Status
Project	s Under PFR/DPR Pre	paration		
3	Subansiri Upper	Arunachal Pradesh	1500	 Government of Arunachal Pradesh has conveyed its approval on 21.07.2023 for allotment of the Project to NHPC. MoA with the Govt. of Arunachal Pradesh has been signed on 12.08.2023. Payment of Rs. 100 crores released to M/s KSK towards project Acquisition cost on 23.08.2023. Preparation / vetting of DPR: S&I Works are being undertaken for preparation of DPR of the Project.
4	Kamla	Arunachal Pradesh	1720	 Government of Arunachal Pradesh has conveyed its approval on 21.07.2023 for allotment of the Project to NHPC. MoA with the Govt. of Arunachal Pradesh has been signed on 12.08.2023. Payment of Rs. 201.54 Crores released to M/s Kamala HE Power Company Ltd. (Hydropower Corporation of Arunachal Pradesh – Jindal Power Ltd. JV) towards Project Acquisition cost on 22.08.2023. Preparation / vetting of DPR: S&I Works are being undertaken for preparation of DPR of the Project.
	Total		4110	

New Initiatives

Pumped Storage Schemes



Green Power, Clean Power



Pump Storage Project Scheme

(1) Maharashtra



S.No	Name/Place of PSP	Installed Capacity (MW)	Present Status
1	Kengadi	1550	MoU for the development of Pumped Storage Projects along with RE sources in the state of Maharashtra has been signed with Department of Energy, Govt. of Maharashtra on 06.06.2023.
2	Jalond	2400	PFR of Savitri PSP has been submitted to Govt. of Maharashtra and CEA on 11.09.23 & 20.09.23 respectively. Pre-DPR Chapters is desired by CEA as per new revised guidelines issued in June,23. DPR of Savitri PSP is under progress.
3	Savitri	2250	 PFR of Kengadi PSP has been prepared and submitted to GoM. PFR of Kalu PSP is under preparation.
4	Kalu	1150	As per the feasibility assessment some part of the Jalond project area falls under the wild life sanctuary and hence it appears not to be feasible. However, further optimization study is being carried.
			NHPC had requested Government of Maharashtra for allotment of Water for proposed PSPs schemes.
	Total	7350	



Pump Storage Project Scheme

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(2) Andhra Pradesh (under JV mode with APGENCO)

S.No	Name/Place of PSP	Installed Capacity (MW)	Present Status
1	Kamalapadu	950	 NHPC has signed an MOU on 23rd August'2023 with Andhra Pradesh Power Generation Corporation (APGENCO) Limited (A Govt. of Andhra Pradesh Undertaking) for Implementation of Pumped Hydro Storage Projects and Renewable Energy Projects under Joint Venture Mode in Andhra Pradesh. MOU envisages Implementation of two Identified Pumped Hydro Storage Projects namely Kamlapadu-950 MW and Yaganti-1000 MW
2	Yaganti	1000	 PSPs in the first phase. Board of Directors of NHPC and APGENCO has approved the Joint Venture Agreement for formation of Joint Venture Company between NHPC & APGENCO. Proposal for formation of Joint Venture Company between NHPC and APGENCO has been submitted to MOP for approval and concurrence from MOP, DIPAM/NITI Aayog on 28.11.2023. Formation of JV is under process of approval from MoP/DIPAM.
	Total	1950	

Pump Storage Project Scheme

(3) Madhya Pradesh



S.No	Name/Place of PSP	Installed Capacity (MW)	Present Status
1	Indrasagar- Omkareswar	525 (Revised to 640)	 PFR submitted by NHDC to CEA on 13.06.2023. Govt. of MP vide Letter dated 07.06.2023 has allotted the Project to NHDC for implementation. 1st Consultation Meeting for preparation of DPR was held by CEA on 28.06.2023. Review meeting was taken by Chairperson CEA on 20.09.23 and advised to take innovative measures for further optimization of Tariff. DPR chapters as per guideline and checklist of CEA is under preparation. Layout Finalization Chapters of Indira Sagar- Omkareshwar PSP (640MW), Madhya Pradesh has been submitted to CEA on 15.12.2023 for Layout Finalization. Review meeting was taken on 05.01.2024 by Member (Hydro) CEA regarding Layout Finalization of ISP-OSP.
2	Tekwa-2	800	 PFR has been prepared and submitted by NHPC to Govt of MP and CEA. 1st consultation meeting for preparation of DPR was held on 28.06.2023
3	Satpura-2	1500	 PFR has been prepared by NHPC. A meeting on 03.03.2023 with Principal Secretary (Energy), GoMP wherein NHPC requested for allotment of said project.
	Total	2825	

Pump Storage Project Scheme



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(4) Odisha S.No Name/Place of PSP Installed Capacity (MW) **Present Status** Self Identification 2000 > MoU has been signed between NHPC Limited and Govt. of Odisha through GRIDCO Limited for "Development of Pumped Storage Projects (PSPs) in the State of Odisha" on 23rd June 2023. > The MOU envisages setting up of at least 2000 MW PSPs in self-identified potential sites and Renewable Energy projects of 1000 MW or above in the State of Odisha. > GRIDCO had requested NHPC for site visit for detailed Preliminary assessment cum Pre-Feasibility studies. NHPC team has visited few sites from 21.09.2023 to 26.09.2023, Desk study for the same is under progress. Total 2000

Pump Storage Project Scheme



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(5) Gujarat

S.No	Name/Place of PSP	Installed Capacity (MW)	Present Status
1	07 nos. identified pumped storage schemes in Gujarat	4000	NHPC is under discussion with Government of Gujarat for development of 07 nos. Pumped Storage Projects aggregating to 4000 MW. In this regard, NHPC has prepared evaluation report and submitted to Govt. of Gujarat on 31.05.2023.
			A draft MOU proposed to be signed between NHPC and Govt. of Gujarat for development of PSPs in the State of Gujarat has been submitted by NHPC for consideration and acceptance.
			NHPC has signed MoU with Gujarat Industries Power Company Limited (GIPCL) on 17.10.2023 for development of Pumped Storage Projects and Renewable Projects in the State of Gujarat.
			Under the aegis of "Vibrant Gujarat", NHPC has signed an MoU with Gujarat Power Corporation Limited, Government of Gujarat for investment in Kuppa Pumped Hydro Storage Project (750 MW) on 03.01.2024.
	Total	4000	

Pump Storage Project Scheme



(6) Tripura

S.No	Name/Place of PSP	Installed Capacity (MW)	Present Status
1	05 nos. identified pumped storage schemes in Tripura	3200 (probable capacity)	 NHPC is under discussion with Government of Tripura for allotment of PSPs sites to NHPC for carrying out suitable analysis, studies, preparation of PFR/FR/ DPR and implementation of the project, if found techno commercially viable. Tripura Renewable Energy Development Agency, Govt. of Tripura vide Letter dated 27.10.2023 has requested NHPC for deputing senior level officials to make technical representation
			 and detailed discussion at Agaratala on 09.11.2023. Tripura Power Generation Limited on 20.12.2023 has conveyed the allotment of 04 nos. Pumped Storage Projects to NHPC Limited by the Government of Tripura at Longtharai, Sunitipur, Shantipur and Sakhan PSP sites in the State of Tripura for detailed Survey & Investigation Works and their subsequent Implementation based on their techno-commercial viability.
	Total	3200	

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Pump Storage Project Scheme

(7) ONGC, PUNJAB & MEGHALAYA



S.No	Name/Place of PSP	Installed Capacity (MW)	Present Status
1	ONGC		NHPC has signed MOU with ONGC on 15.12.2023 for cooperation in exploration and development of Pumped Hydro Storage and other Renewable Projects in the country.
2	PSPCL, Punjab		NHPC is under discussion with Punjab State Power Corporation Limited, Govt. of Punjab for development of Pumped Storage Projects.
3	MeECL		NHPC is under discussion with Meghalaya Energy Corporation Limited, Govt. of Meghalay for development of Pumped Storage Projects.

NHPC: Standalone Projects in Operation



Hydro

Hydro	Hydro									
S. No	NHPC Project & State/UT Installed (MW)		Design Energy (MU)	Year of comm.	Capital Cost as on 31.03.23	Tariff (22- 23) (Rs. /Kwh)	Type of the project			
1	Baira Siul, (3x60) Himachal Pradesh	180	708.59	1981 (Sep)	308.41	2.65	Run of River (ROR) with small pondage			
2	Loktak, (3x35) Manipur	105	448.00	1983 (May)	183.73	3.89*	Storage			
3	Salal, (6x115) UT of J&K	690	3082.00	1987 (Nov)	1046.78	2.64	ROR			
4	Tanakpur, (3x40) Uttarakhand	94	452.19	1992 (Apr)	430.35	5.35	ROR			
5	Chamera-I, (3x180) Himachal Pradesh	540	1664.56	1994 (Apr)	2107.30	2.28	Storage			
6	Uri-I, (4x120) UT of J&K	480	2587.38	1997 (Apr)	3458.10	2.36	ROR			
7	Rangit, (3x20) Sikkim	60	338.61	2000 (Feb)	513.62	4.49	ROR with small pondage			
8	Chamera-II, (3x100) Himachal Pradesh	300	1499.89	2004 (Feb)	2027.62	2.02	ROR with small pondage			
9	Dhauliganga-I, (4x70) Uttarakhand	280	1134.69	2005 (Oct)	1764.61	2.70	ROR with small pondage.			
10	Dulhasti, (3x130) UT of J&K	390	1907.00	2007 (Mar)	5232.07	5.11	ROR with small pondage			

NHPC: Standalone Projects in Operation

Hydro

Hydro	Hydro								
S.No.	S.No. NHPC Project Capac (MW		Design Energy (MU)	Year of Comm.	Capital Cost as on 31.03.23	Tariff (22-23) (Rs. /Kwh)	Type of the project		
11	Teesta-V, (3x170) Sikkim	510	2573	2008 (Mar)	2802.53	2.48*	ROR with small pondage		
12	Sewa-II, (3x40) UT of J&K	120	533.53	2010 (Jun)	1153.00	4.60	ROR with small pondage		
13	Chamera-III , (3x77) Himachal Pradesh	231	1108.17	2012 (Jun)	2090.07	4.18	ROR with small pondage		
14	Chutak , (4x11) UT of Ladakh	44	212.93	2013 (Jan)	945.34	9.91	ROR		
15	TLDP-III, (4x33) West Bengal	132	594.07	2013 (Mar)	1942.69	5.57	ROR with small pondage		
16	Nimoo Bazgo, (3x15) UT of Ladakh	45	239.33	2013 (Jan)	1071.21	10.61	ROR with small pondage		
17	Uri –II, (4x60) UT of J&K	240	1123.77	2014 (Feb)	2364.19	5.27	ROR		
18	Parbati-III, (4x130) Himachal Pradesh	520	1963.29	2014 (May)	2720.38	3.08*	ROR with small pondage		
19	TLDP IV, (4x40) West Bengal	160	717.72	2016 (Aug)	1740.60	4.35	ROR with small poundage		
20	Kishanganga, (3x110) UT of J&K	330	1712.96	2018(Mar)	5711.55	4.94	ROR with Pondage		
	Total-A	5451	24601.68		39614.15	4.08	* Tariff Notification for 2019-24 yet to be issued by CERC.		



NHPC: Standalone Projects in Operation

Renewable Energy

S.No	Project	Installed Capacity (MW)	Design Energy (MU)	Year of Comm.	Capital Cost as on 31.03.2023	Tariff 22-23 (Rs./unit)	Place of Project
1	Wind Power	50	94.25	2016	330.40	3.67	Lakhmana, Jaisalmer
2	Solar Power	50	105.96	2018	290.59	4.41	Theni/Dindigul District, Tamilnadu
	Total-B	100	200.21		620.99		
Sub Total Standalone(A+B)		5551	24801.89		40235.14	4.06	



NHPC: Subsidiary Projects in Operation



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Hydro

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S.No	Project	Installed Capacity (MW)	Design Energy (MU)	Year of Comm.	Capital Cost as on 31.03.2023	Tariff 22-23 (Rs./Kwh)	Type of the project
1	Indrasagar, (8x125) Madhya Pradesh	1000	1423.26	2005	5326.43	3.80	Storage
2	Omkareshwar, (8x65) Madhya Pradesh	520	736.46	2007	3138.08	4.62	Storage
	Total-A	1520	2159.72		8464.51	4.08	

Renewable Energy

S.No	Project	Installed Capacity (MW)	Design Energy (MU)	Year of Comm.	Capital Cost as on 31.03.2023	Tariff 22-23 (Rs./unit)	Place of Project
1	Solar Power Project, Kalpi (UP) (Subsidiary BSUL) (Out of 65 MW total installed capacity, 26 MW has been commissioned so far)	26	Shall be shared after full commissioning	2022-23	Shall be shared after full commissioning	2.68	Jalaun District (Uttar Pradesh)
	Total-B	26					
Sub Total Subsidiary (A+B)		1546	2159.72		8464.51		
Grand Total (Standalone+ Subsidiary)		7097	26961.61				







NHPC-Energising India With Hydropower

