



Clean Power For Every Home



INVESTOR PRESENTATION FINANCIAL YEAR 23-24 : September 2023



Presentation Outline

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NHPC Today

Financial Highlights

Financial Ratios

Projects at a Glance

Projects under Pipeline & New Initiatives



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



Subansiri Lower Project



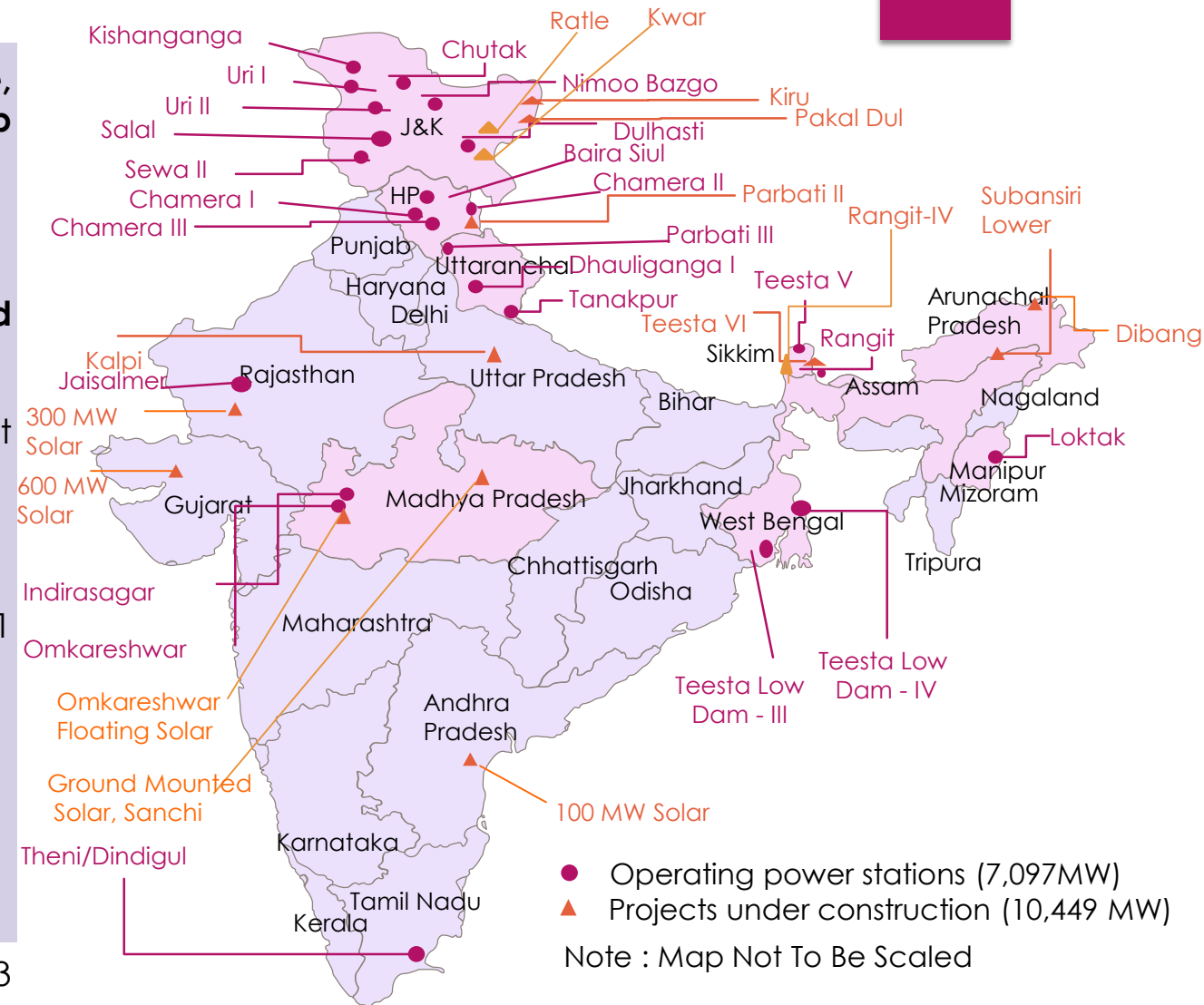
Teesta V, Sikkim

PHYSICAL SNAPSHOT

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- 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 46,850 MW*).
- Consultancy business.
- Power trading business.
- Exposure to international business opportunities.

* Source-CEA as on 30.09.2023



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

PHYSICAL SNAPSHOT

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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)

Under Construction

- ❖ Projects Under Construction (including Subsidiary & JV) :-
 - Hydro & Solar - 15 Nos. (10449 MW)

Awaiting Clearances

- ❖ Projects Awaiting Clearances : -
 - Standalone - 4 Nos. (3116 MW)
 - Subsidiary – 2 No. (996 MW)

Under Survey & Investigation

- ❖ Projects under Survey & Investigation - 4 Nos. (4690 MW)

Hydro Power is 11% (46850 MW) of All India Installed Capacity (425406 MW#) .

NHPC Contribution is 15% of Installed Hydro Power On Consolidated Basis.

Status	Capacity (MW)
Operational Projects	7,097
Projects Under Construction (including Subsidiary & JV)	10,449
Projects Under Clearance:	
Stand alone	3,116
Subsidiaries	996
Projects Under Survey & Investigation	4690
Total	26,348

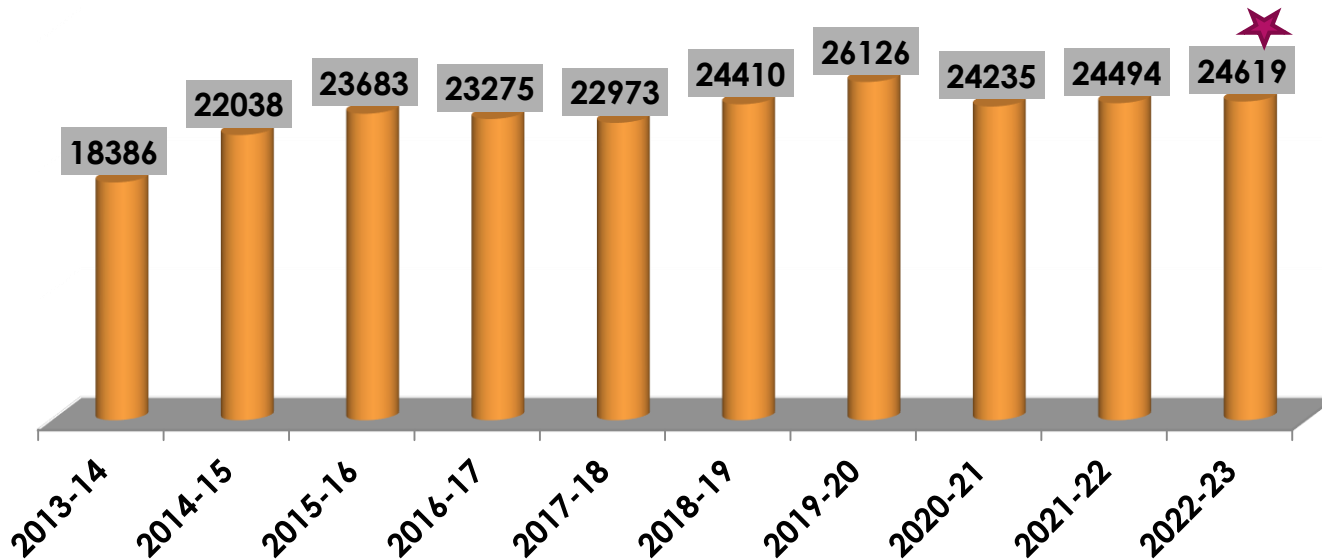
Including 50 MW Wind Power Project, Jaisalmer & 50 MW Solar Power Project, Tamilnadu.

** including part commissioning of 26 MW of Kalpi Solar Power Project in the state of Uttar Pradesh

#Source-CEA as on 30.09.2023

NHPC 's Track Record – A Ten Year Digest

Standalone Generation (in M.U.)



★ Hydro: 24452 MU(excl. infirm power of 288 MUs : Parbati II), Wind: 77 MU & Solar: 90 MU.

Actual H1 FY'24

Actual H1 FY'23

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• Country Generation
898 BU

• Country Generation
846 BU

• Share of Hydro Power
91 BU (10%)

• Share of Hydro Power
103 BU (12%)

• Share of NHPC (Hydro) Standalone
16699 MU (18%)

• Share of NHPC (Hydro) Standalone
17948 MU (17%)

Financial Highlights



Sewa II, UT of J&K



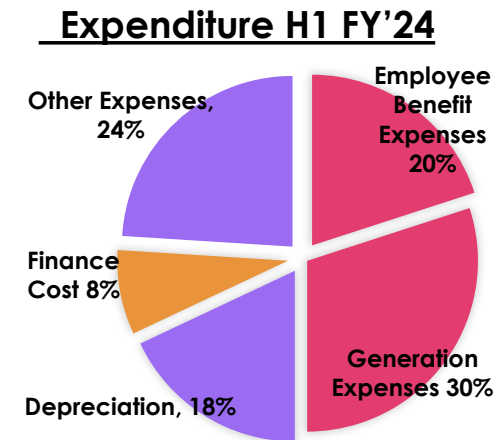
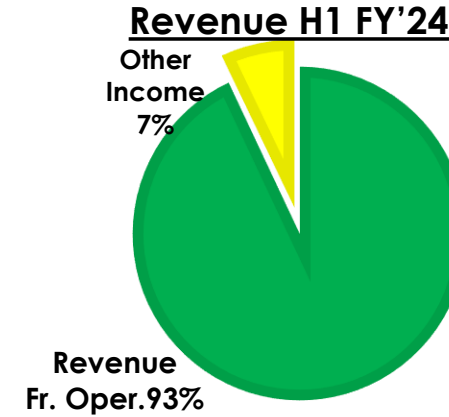
Chamera I, Himachal

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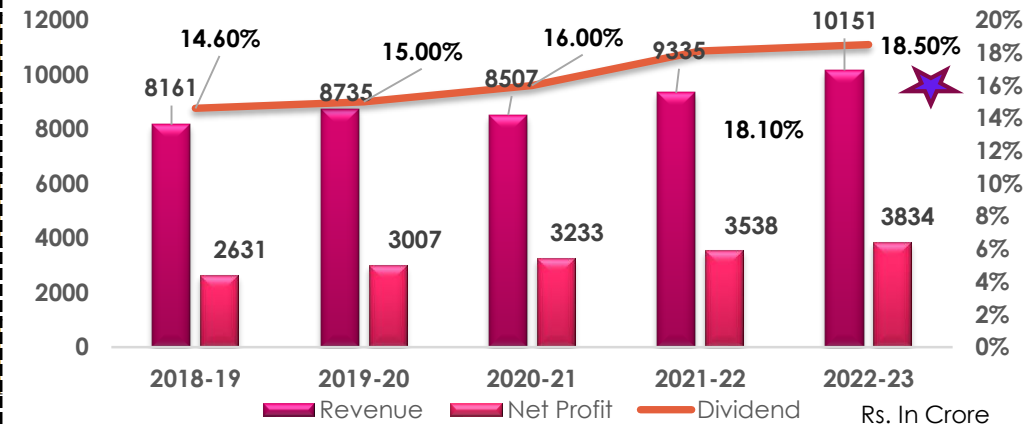
Financial Highlights : Standalone

Particulars	FY'24		FY'23			% Change	
	Half Year	Qtr-2	Half Year	Qtr-2	Full Year	Half Year	Qtr-2
Revenue from Operation	5056.35	2485.39	5,326.71	2836.21	9316.34	-5.08	-12.37
Other Income	408.11	129.12	331.71	115.26	834.56	23.03	12.02
Total Income (A)	5464.46	2614.51	5,658.42	2951.47	10150.90	-3.43	-11.42
Generation Expenses	914.69	397.08	637.08	366.98	936.46	43.58	8.20
Employee Benefits Expenses	618.59	321.23	597.74	291.17	1301.35	3.49	10.32
Finance Cost	229.32	114.81	243.72	107.06	476.16	-5.91	7.24
Depre. & Amort. Expense	552.61	276.88	571.15	283.80	1145.44	-3.25	-2.44
Other Expenses	724.74	354.54	858.43	351.51	1707.89	-15.57	0.86
Total Expenditure(B)	3039.95	1464.54	2,908.12	1400.52	5567.30	4.53	4.57
PBT(Before RRA)(C=A-B)	2424.51	1149.97	2750.30	1550.95	4583.60	-11.85	-25.85
Rate Regu. Income (D)	45.94	24.04	187.93	160.07	-144.41	-75.55	-84.98
PBT (After RRA) (E=C+D)	2470.45	1174.01	2938.23	1711.02	4439.19	-15.92	-31.39
Tax (F)	-29.60	-273.10	455.57	277.94	605.40	-106.50	-198.26
Profit After Tax (G=E-F)	2500.05	1447.11	2482.66	1433.08	3833.79	0.70	0.98

Revenue & Expenditure-Analysis



Revenue Vs. Net Profit Vs. Dividend



★ Interim Dividend – 14.00% & Final Dividend 4.50%.

Statement of Assets & Liabilities

Rs. In Crore



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Equity and Liabilities	H1 FY'24	FY'23
Share Holder's Funds	37490.22	35407.96
Long Term Borrowings	24409.71	25254.69
Long Term Lease Liabilities	19.51	11.70
Deferred Tax Liabilities	1470.94	1937.34
Other Long term Liabilities & Provisions	4347.35	4138.55
Current Liabilities & Provisions	8471.50	7041.68
Regulatory Deferral Account Credit Balances	923.20	923.20
Total Equity & Liabilities	77132.43	74715.12
Assets		
PPE (incl. investment property)	16926.05	17439.52
Capital Work in Progress	27592.39	25315.01
Right of Use Assets	2624.41	2625.70
Intangible Asset (including under development)	182.23	3.08
Non Current Financial Asset	11294.89	11583.30
Non Current Assets (Others)	3545.31	3633.04
Regulatory Asset	6466.06	6420.12
Trade Receivables	5881.70	5487.59
Cash and Bank Balances	1012.87	638.22
Current Assets (Others)	1606.52	1569.54
Total Assets	77132.43	74715.12

Debtors Position

Rs. In Crore



Total Debtors (in Crs.)

S. N.	Particulars	As on 30.09.2023	As on 30.06.2023	As on 31.03.2023	As on 31.12.2022	As on 30.09.2022
1	Trade Receivables	5970 (including unbilled debtors of Rs. 2685 Crs.)	6736 (including unbilled debtors of Rs. 3059 Crs.)	5887 (including unbilled debtors of Rs. 2757 Crs.)	5819 (including unbilled debtors of Rs. 2717 Crs.)	5854 (including unbilled debtors of Rs. 2751 Crs.)
2	More than 45 days*	367	335	168	229	113

Top Five Debtors* (in Crs.)

Name	30.09.2023		31.03.2023	
	Total	More than 45 days	Total	More than 45 days
UPPCL, UP	1704	0	1543	0
PDD, J&K (Incl. JKPCCL)	1597	173	1855	5
PSPCL, Punjab	469	0	471	23
WBSEDCL	354	0	412	0
Haryana	306	0	255	0

* Net of Provision

Incentives Position

Comparative Incentive YoY (in Crs.)

Sl.	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			5.64	0.00	0.00	13.61	109.65	123.26
2	Incentives	0.00	0.00			0.00	171.44	181.22	92.15	(39.65)	405.16
3	Deviation Chrgs.	11.52	9.59			21.11	72.14	47.25	29.20	(2.09)	146.50
	G. Total	11.52	15.23			26.75	243.58	228.47	134.96	67.91	674.92
4	PAF	94.13%	89.78%			91.93%	98.57%	99.87%	88.25%	67.96%	88.75%

Supplements

Power Station With Highest PAF : Sewa-II (PAF : 106.15%, NAPAF : 89%)

Power Station with highest Deviation Charges: Teesta-V (Rs. 6 Cr.)

Power Station Giving Best Generation : Chamera-I (105% of the annual design energy)

Supplements

Power Station with Highest PBT- Dulhasti (Rs. 374 Crs)

NHPC Profit per MW: Rs. 45 lakhs (H1 FY'24), Rs. 45 lakhs (H1 FY'23)

NHPC Profit per Employee: Rs. 52 lakhs (H1 FY'24), Rs. 50 lakhs (H1 FY'23)

Key Financials : H1 FY'24

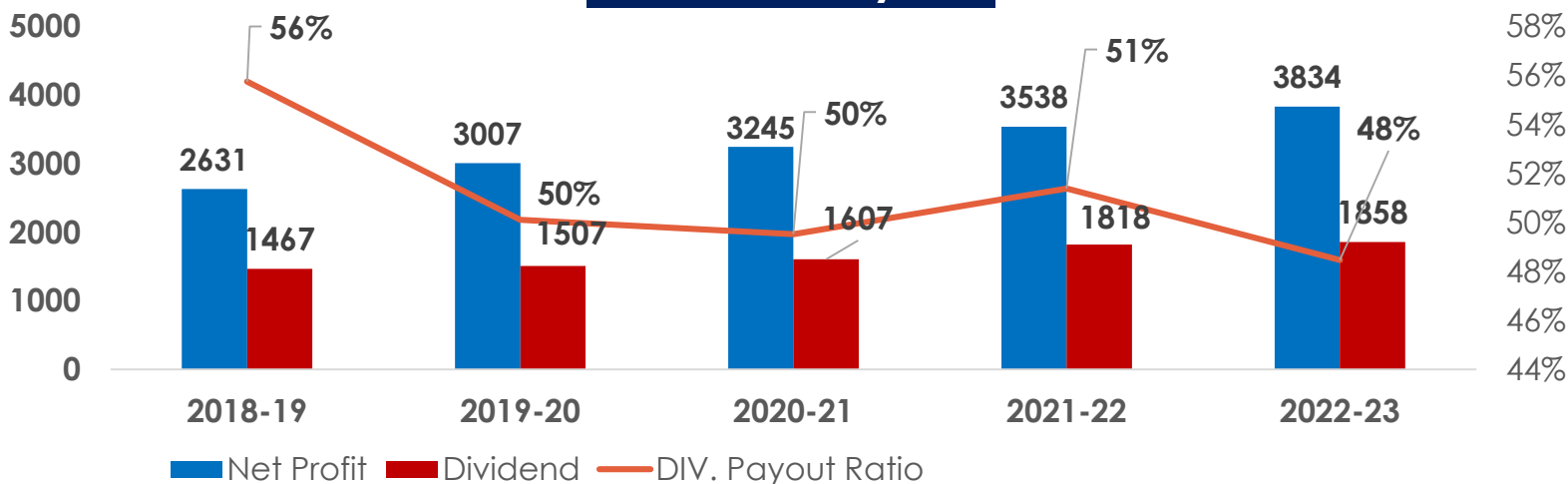
12

Rs. In
Crore

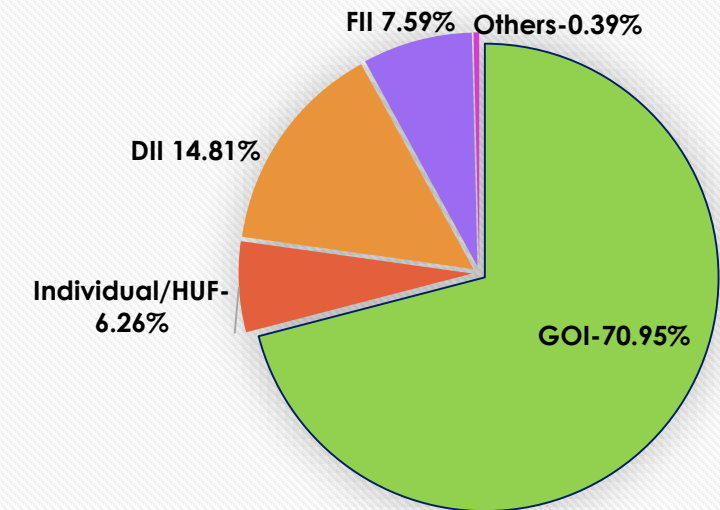
P&L	Standalone
Total Income	5464
EBITDA	3206
EBITDA Margin	59%
PAT	2500
Profit Margin	46%
Dividend Pay Out (FY'23)	Rs. 1.85 Per Share/ 48% of Profit

Balance Sheet	Standalone
Share Capital	10045
Net worth	37490
Long Term Debt	24410
Cash & Bank Bal.	1013
Gross Block	40333
CWIP	27592

Dividend Pay out



Shareholding pattern as on 30.09.2023



NHPC – Key Ratios

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S. No.	Particulars	H1 FY'24		FY'23	
		Standalone	Consolidated	Standalone	Consolidated
1.	PAT (Rs. in Cr.)	2,500.05	2582.71	3833.79	3889.98
2.	Net-worth (Rs. in Cr.)	37490.22	39065.14	35407.96	36899.34
3.	No. of Equity Shares (In Cr.)	1004.50	1004.50	1004.50	1004.50
4.	EPS (Rs.)	2.49*	2.57*	3.82	3.87
5.	Earning Yield(%)**	4.96*	5.12*	9.50	9.63
6.	Dividend Per Share (Rs.)			1.85	
7.	Dividend Yield(%)**			4.60	
8.	Book Value per share (Rs.)	37.32	38.89	35.25	36.73
9.	PB Ratio**	1.34	1.29	1.14	1.09
10.	PE Ratio**	10.08	9.76	10.52	10.39
11.	Return On Net worth (%)	6.67*	6.61*	10.83	10.54
12.	Market Capitalisation (Rs. in Cr.)**	50416		40381	
13.	Debt Equity Ratio	0.80	0.82	0.85	0.86

*Not annualised. **Stock Price (BSE): as on 03.11.2023 Rs. 50.19 & as on 31.03.2023 Rs. 40.20.

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

Shareholding Pattern : 51:49 (NHPC : GoMP)

Installed Capacity : 1520 MW

Design Energy : 2159.72 MUs

Generation : 5444 MUs (FY'23), 2645 MUs (FY'22)

PAF : 97.42% (FY'23), 92.74% (FY'22)

Revenue from operations : Rs. 1318 Crs. (FY'23), 858 Crs. (FY'22)

PAT : 774 Crs. (FY'23), 513 Crs. (FY'22)

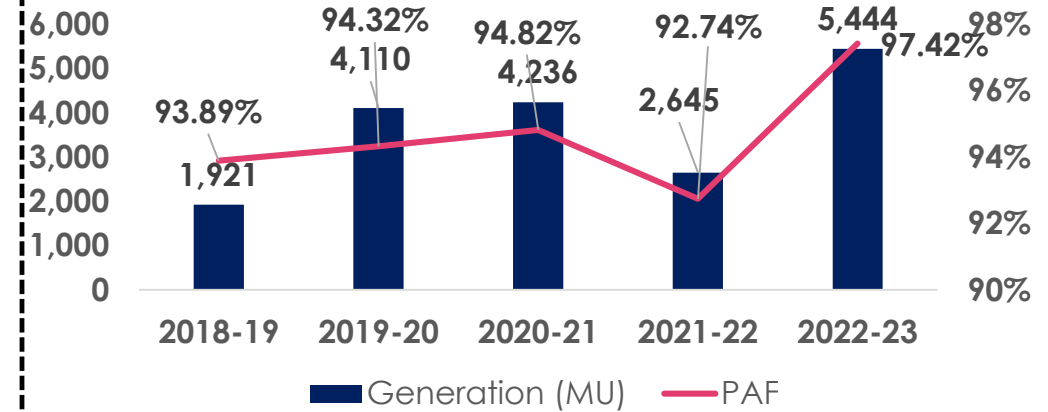
PAF Incentive : Rs. 46 Crs. (FY'23), Rs. 23 Crs. (FY'22)

Secondary Energy : Rs. 386 Crs. (FY'23), 56 Crs. (FY'22)

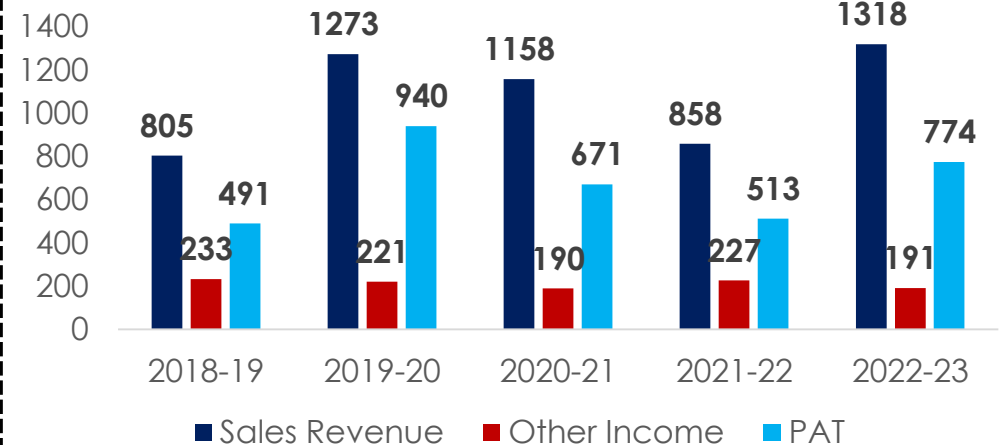
Deviation Charges: Rs. 18 Crs. (FY'23), 7 Crs. (FY'22)

Regulated Equity: Rs. 2022 Crs. (FY 2022-23)

Physical Performance



Financial Performance

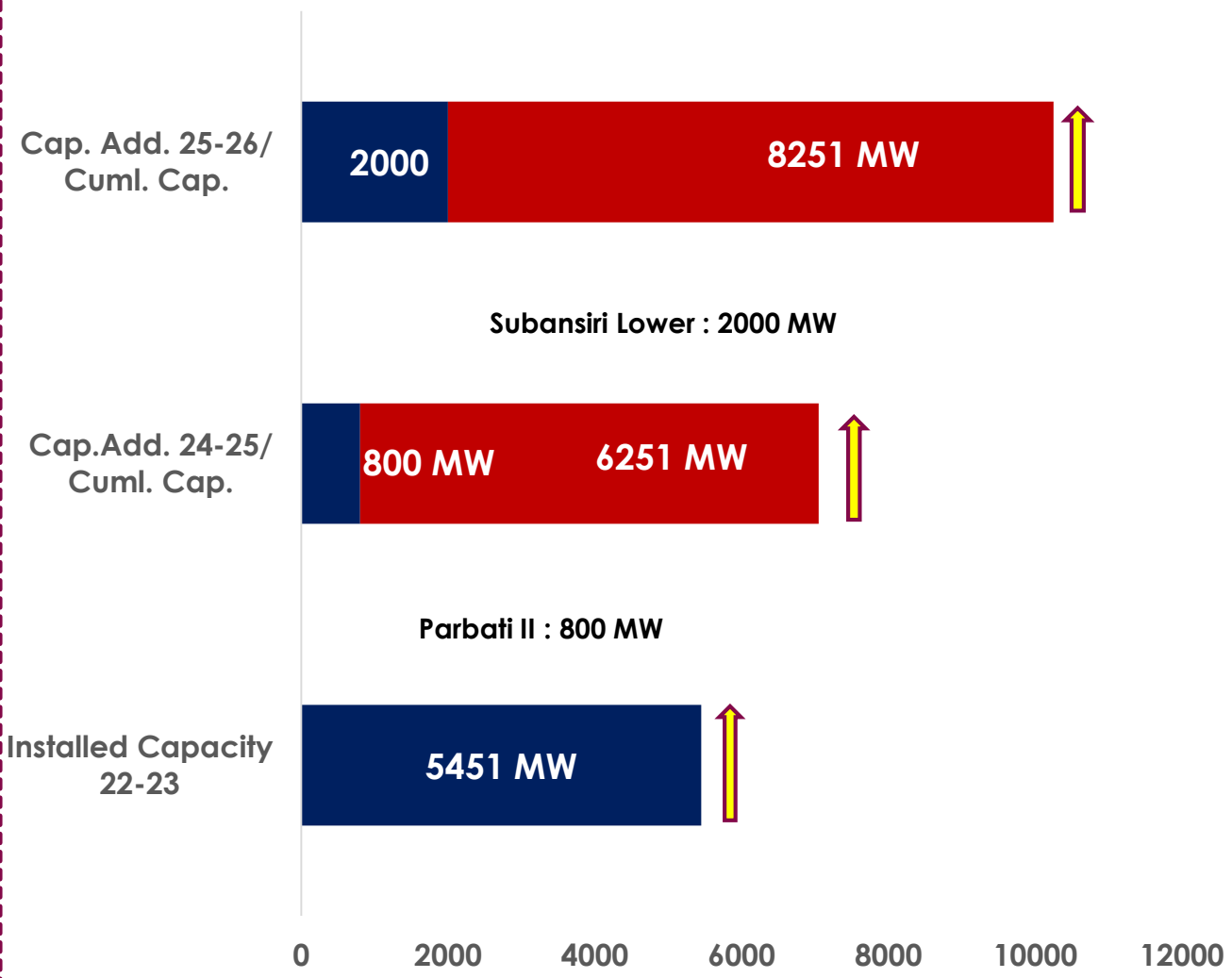


NHDC Ltd. – Financial Highlights : H1 FY 23-24

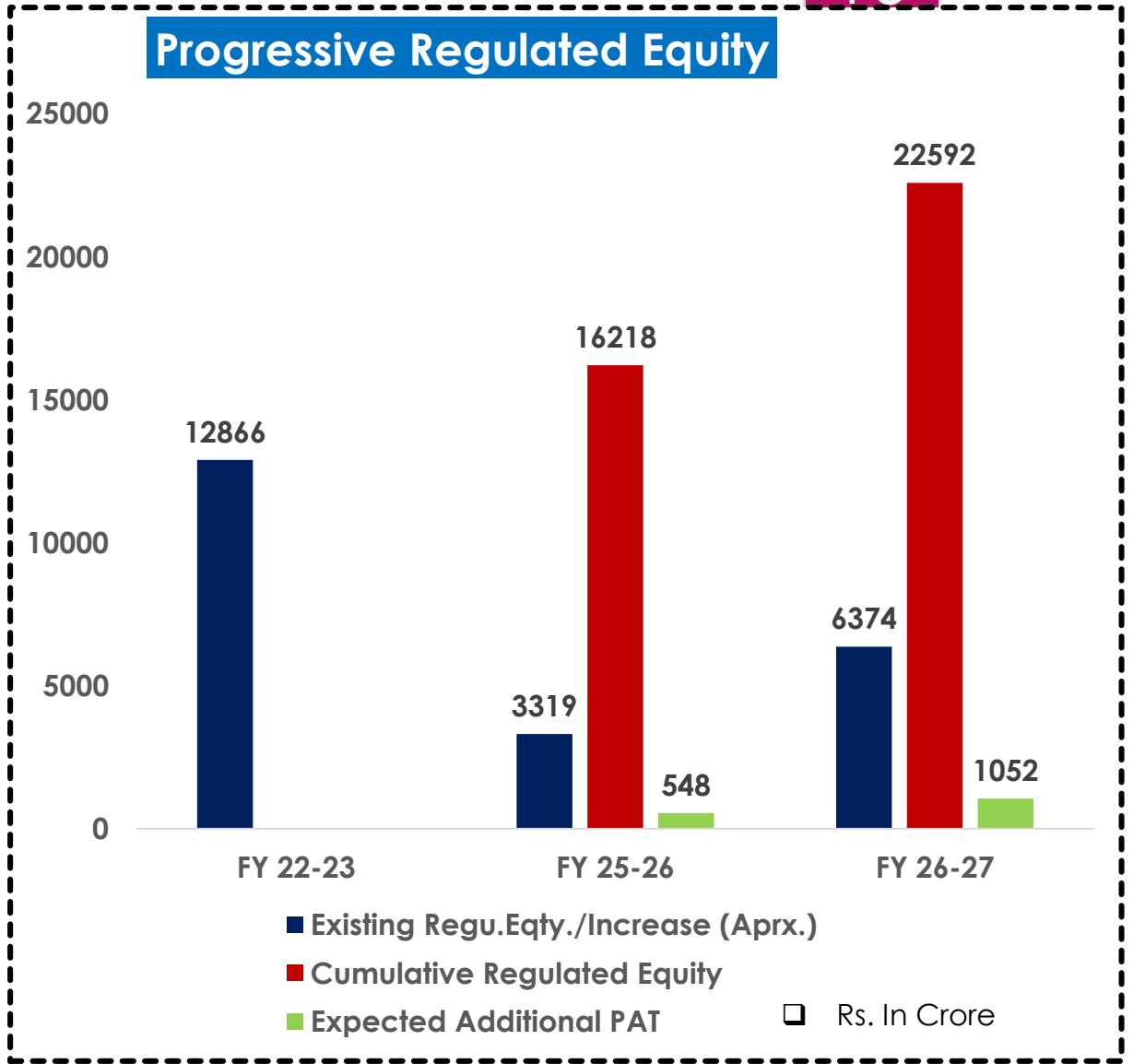
Particulars	FY'24		FY'23			% Change	
	Half Year	Qtr-2	Half Year	Qtr-2	Full Year	Half Year	Qtr-2
Actual Generation (in MU)	2858	2399	3188	2715	5444	-10.35	-11.64
Actual PAF (in %)	94.79	102.47	91.59	101.15	97.42	3.49	1.30
Revenue from Operations	653.95	453.85	681.68	483.92	1318.41	-4.07	-6.21
Total Income	760.58	508.82	772.25	529.85	1509.35	-1.51	-3.97
Profit After Tax (PAT)	410.49	297.74	416.44	304.89	774.43	-1.43	-2.35
PAF Based Incentive	17.33	18.51	9.15	8.84	45.99	89.40	109.39
Secondary Energy	209.17	209.17	248.71	248.71	386.37	-15.90	-15.90
Deviation Charges	3.99	1.18	9.38	6.29	18.18	-57.46	-81.24

NHPC – Capacity Addition & Regulated Equity (Hydro)

Progressive Capacity Addition



Progressive Regulated Equity



Power Station with highest generation during H1 FY'24 : Salal (2642 MU, Annual D.E-3082 MU)





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)



- ❖ 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.
- ❖ An MoU has been signed on 01.06.2023 with Vidhyut Utpadan Company Limited, Nepal for development of Phukot Karnali Hydro Electric Project 480 MW in Nepal.
- ❖ 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”.
- ❖ An MOU has been signed with Department of Energy, Govt of Maharashtra on 06.06.2023 for the development of Pumped Storage Schemes and other Renewable Energy Source Projects in the State of Maharashtra.
- ❖ 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 has received a Letter of Intent dated 16.05.2023 from Gujarat Urja Vikas Nigam Limited (GUVNL) for 200 MW capacity Solar Power Project within 600 MW GSECL’s Solar Park at Khavda (GSECL Stage-1). The estimated financial implication for the said Solar Power Project would be approx. Rs.1,000 Crore.

NHPC Projects At A Glance



NHPC-Energising India With Hydropower

NHPC: Hydro Projects Under Construction

Standalone

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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 –Sep'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)	10686.49	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))	19459.31	FY 25-26 (Q-1) (Full commissioning) [Commissioning of 2 units is expected in Q4 FY'24 and remaining 6 units are expected to be commissioned one by one by May'25]
Dibang, (12X240) Arunachal Pradesh	2880	11223	Hydropower cum flood moderation scheme	31876.39 (May'21)	31876.39 (May'21)	2267.60	FY 31-32 (Q-4)
Total (A)	5680	21769		42081.31	64187.42	32413.40	

NHPC: Hydro Projects Under Construction

Subsidiary

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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 – Sep'23 (Rs. Crore)	Expected Commissioning Schedule
Rangit-IV, (3X40) Sikkim	120	508	Run of River with small pondage	938.29 (Oct'19)	938.29 (Oct'19)	791.69	FY 24-25 (Q-2)
Kiru, (4X156) UT of J&K	624	2272	Run of River	4287.59 (July'18)	4287.59 (July'18)	1313.71	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)	430.68	FY 26-27 (Q-1)
Teesta-VI, (4X125) Sikkim	500	2400	Run of River	5748.04 (July'18)	5748.04 (July'18)	2973.97	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)	3409.77	FY 26-27 (Q-2)
Kwar, (4x135) UT of J&K	540	1975	Run of River	4526.12 (Sept.20)	4526.12 (Sept.20)	497.47	FY 26-27 (Q-3)
Total (B)	3634	13522		28894.10	28894.10	9417.29	
Total (A+B)	9314	35291		70975.41	93081.52	41830.69	

NHPC: Solar Project Under Construction

Standalone

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	2024-25	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			

NHPC: Solar Project Under Construction

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 Construction projects (Hydro & Solar)		10449	100638.98			

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	<p>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.</p> <p>Anticipated commissioning of 380 MW Project under Temporary GNA 1st Phase (259.60 MW) is 30.11.23 and balance (120.40 MW) is 24.12.23. 400 MW project is aligned to be commissioned within one month of respective ISTS Commissioning [i.e. May-2025 (for 400 MW)].</p> <p>Further, Balance capacity of 1300 MW is expected to be commissioned by 2024-25)</p>	<p>2.55 (1680MW) 2.56 (320 MW)</p>	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)

(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	4.30	PPA under exploration
2	200 MW Grid Connected Solar photovoltaic Power Projects located in 600 MW Solar Park at Khavda, Gujarat	200	1100.00	2024-25	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

(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	2024-25	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)

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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	Bidding Trajectory for 10 GW Renewable Energy Tenders	3000 (Solar)	0.00	24 months from PPA signing date	--	To be explored after discovery of tariff
		1500 (Firm & Dispatchable (RTC) RE Power)	0.00	24 months from PPA signing date	--	To be explored after discovery of tariff
		1500 (Solar & Wind Hybrid)	0.00	24 months from PPA signing date	--	To be explored after discovery of tariff
Total-(a)		6000	0.00			

NHPC: Hydro Projects Under Clearance

Standalone

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S. N.	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Crore) & PL	Status
1	Teesta-IV (4x130) Sikkim	520	2252	6113 (Apr'21)	<ul style="list-style-type: none"> 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 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 (4 x103 + 2x44) Himachal Pradesh	500	1760	4250 (Apr'2021)	<ul style="list-style-type: none"> MOU signed on 25.09.2019 at Shimla and NHPC signed Implementation Agreement with Govt. of Himachal Pradesh on dated 26.08.2022. Defence Clearance issued by Ministry of Defence on 18.11.2020. 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

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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)	<ul style="list-style-type: none"> 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. Forest clearance is in progress.
4	Uri-I Stage-II (2x120) UT of J&K	240	932.6	2526.79 (Completion)	<ul style="list-style-type: none"> 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 are being submitted by Consultant to the Project. 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)	Design Energy (MUs)	Cost (In Cr.) & PL	Status
1	Kirthai-II (6x140 + 2x35 + 2x10) UT of J&K	930	3330	6384 (Feb'20)	<ul style="list-style-type: none"> •MOU has been signed between NHPC Ltd. and JKSPDCL on 03.01.2021. •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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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)	<ul style="list-style-type: none"> ▪ 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 dt 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

S. No.	Projects	State	Installed Capacity (MW)	Status
Projects Under FR/DPR Preparation				
1	Garba Tawaghat (3x210)	Uttarakhand	630	<ul style="list-style-type: none">• 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.

S. No.	Projects	State	Installed Capacity (MW)	Status
Projects Under FR/DPR Preparation				
2	Dulhasti Stage-II (2x130)	UT of Jammu & Kashmir	260	<ul style="list-style-type: none"> 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, 11 Chapters cleared.

S. No.	Projects	State	Installed Capacity (MW)	Status
Projects Under PFR/DPR Preparation				
3	Subansiri Upper	Arunachal Pradesh	2000	<ul style="list-style-type: none"> 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. <p>Preparation / vetting of DPR: S&I Works are being undertaken for preparation of DPR of the Project.</p>
4	Subansiri Middle (Kamla)	Arunachal Pradesh	1800	<ul style="list-style-type: none"> 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. <p>Preparation / vetting of DPR: S&I Works are being undertaken for preparation of DPR of the Project.</p>
Total			4690	

New Initiatives

☐ Pumped Storage Schemes



Green Power, Clean Power

(1) Maharashtra

S.No	Name/Place of PSP	Installed Capacity (MW)	Present Status
1	Kengadi	1550	<ul style="list-style-type: none">➤ 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 .➤ 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.➤ Preparation of PFR of other three PSPs are under Process, likely to be prepared by Dec,2023.➤ NHPC had requested Government of Maharashtra for allotment of Water for proposed PSPs schemes.
2	Jalond	2400	
3	Savitri	2250	
4	Kalu	1150	
Total		7350	

S.No	Name/Place of PSP	Installed Capacity (MW)	Present Status
1	Kamalapadu	950	➤ NHPC and Department of Energy, Govt. of Andhra Pradesh signed an MoU on 04.03.2023 for investment for development of 2000 MW of Pumped Storage Projects in the State in JV mode.
2	Yaganti	1000	➤ In line with above MoU, NHPC 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. The MOU envisages Implementation of two Identified Pumped Hydro Storage Projects namely Kamlapadu-950 MW and Yaganti-1000 MW PSPs in the first phase.
	Total	1950	

S.No	Name/Place of PSP	Installed Capacity (MW)	Present Status
1	Indrasagar-Omkareswar	525	<ul style="list-style-type: none"> ➤ Govt of M.P. vide letter dated 07.06.2023 allotted the PSP site for implementation. ➤ 1st consultation meeting for preparation of DPR was held 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. The detailed studies are in progress
2	Tekwa-2	800	<ul style="list-style-type: none"> ➤ 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	<ul style="list-style-type: none"> ➤ 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	

(4) Odisha

S.No	Name/Place of PSP	Installed Capacity (MW)	Present Status
1	Self Identification	2000	<ul style="list-style-type: none">➤ 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	

(5) Gujarat

S.No	Name/Place of PSP	Installed Capacity (MW)	Present Status
1	07 nos. identified pumped storage schemes in Gujarat	4000	<ul style="list-style-type: none">➤ 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.➤ An draft MOU is 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.
	Total	4000	

(6) Tripura

S.No	Name/Place of PSP	Installed Capacity (MW)	Present Status
1	05 nos. identified pumped storage schemes in Tripura	4000	<ul style="list-style-type: none">➤ 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.
	Total	4000	

NHPC: Standalone Projects in Operation

Hydro

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S. No	NHPC Project & State/UT	Installed Capacity (MW)	Design Energy (MU)	Year of comm.	Capital Cost as on 31.03.23	Tariff 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	2.62	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	2.01*	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

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S.No.	NHPC Project	Installed Capacity (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	2.84*	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	5.12*	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 pondage
20	Kishanganga, (3x110) UT of J&K	330	1712.96	2018(Mar)	5711.55	4.10*	ROR with Pondage
	Total-A	5451	24601.68		39614.15	4.05	* Tariff Notification for 2019-24 yet to be issued by CERC.

Renewable Energy

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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./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

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) Pradesh Madhya	1000	1423.26	2005	5326.43	3.80	Storage
2	Omkareshwar, (8x65) Pradesh Madhya	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				



Thank
You

