



Investors Presentation Feb'2014



Agenda



Hydro Scenario in India

NHPC Overview

Investment Plan

Financial Highlights



Hydro Scenario in India



Hydro Scenario

Benefits

- ✓ Abundant hydro potential
- ✓ Meets peaking power
- ✓ Ideal for meeting demand during peak times.
- ✓ Improves grid stability and reliability
- ✓ Renewable source of energy
- ✓ Affordable and cost effective
- ✓ Environmentally benign source
- ✓ Additional benefits for storage schemes -flood moderation, irrigation, tourism etc
- ✓ Cost of generation is free from inflationary effect after the initial installation.

All India Physical Profile(31.12.13)

- ✓ Total Assessed Potential above 25 MW-1,45,320 MW .
- ✓ Capacity Already Developed- 35,108 MW (24.16%).
- ✓ Capacity Under Construction- 13,242 MW (9.11%).
- ✓ Capacity yet to be tapped- 96,970 MW (66.73 %)
- ✓ Share of Hydro Power-39,893 MW as on 31.12.2013 (17.05% out of country's installed capacity of 2,33,930 MW)

Source: CEA





NHPC Overview



NHPC – Today

- ❖ **Mini Ratna Category–I enterprise of Govt. of India with an Authorised Capital of Rs. 15,000 Crore.**
- ❖ **Projects Completed 17 Nos. (4467 MW)**
- ❖ **Projects Completed with Subsidiary 2 Nos. (1520 MW)**
- ❖ **Projects Under Construction 5 Nos. (3810 MW)**
- ❖ **Projects Awaiting Clearances – Standalone 5 Nos. (5115 MW)**
- ❖ **Projects Awaiting Clearances – Joint Venture 4 Nos. (2186 MW)**
- ❖ **Projects in Pipeline 4 Nos. (2120 MW)**

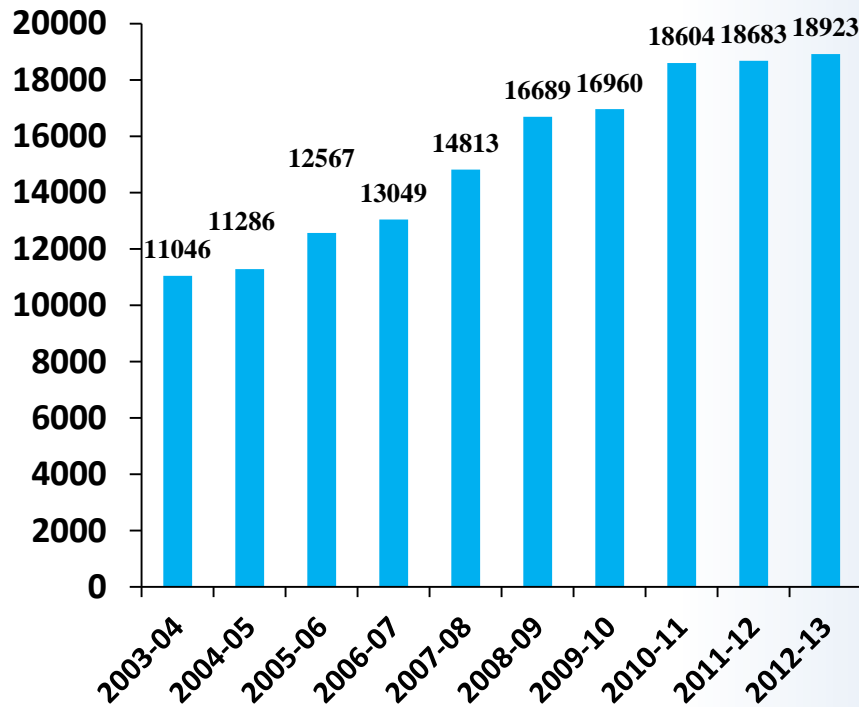


NHPC's Track Record

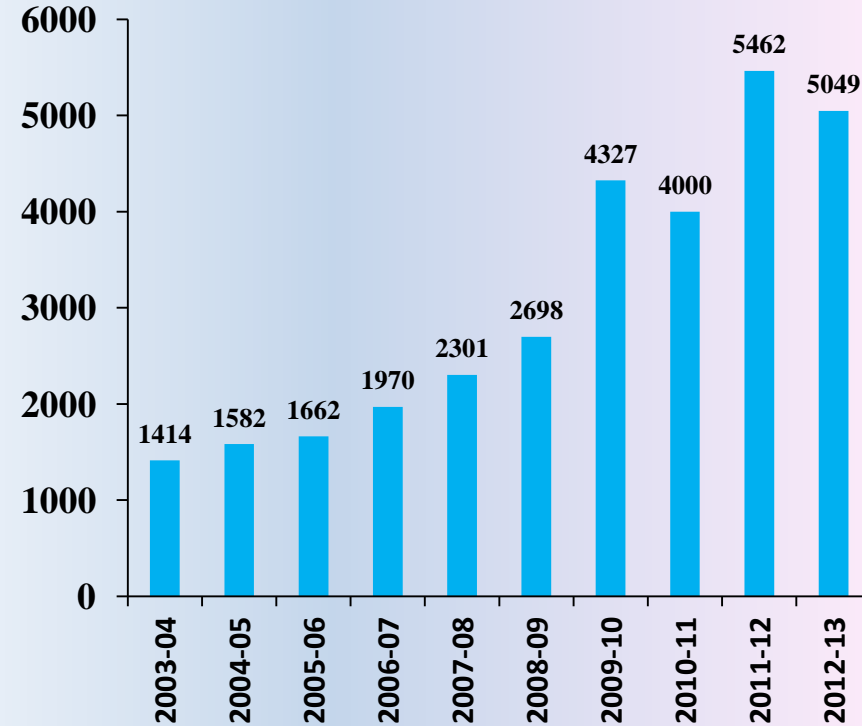
A Ten Year Digest



Generation in (M.U)



Sale of Energy (In Crores)



Country's Hydro Generation 13-14

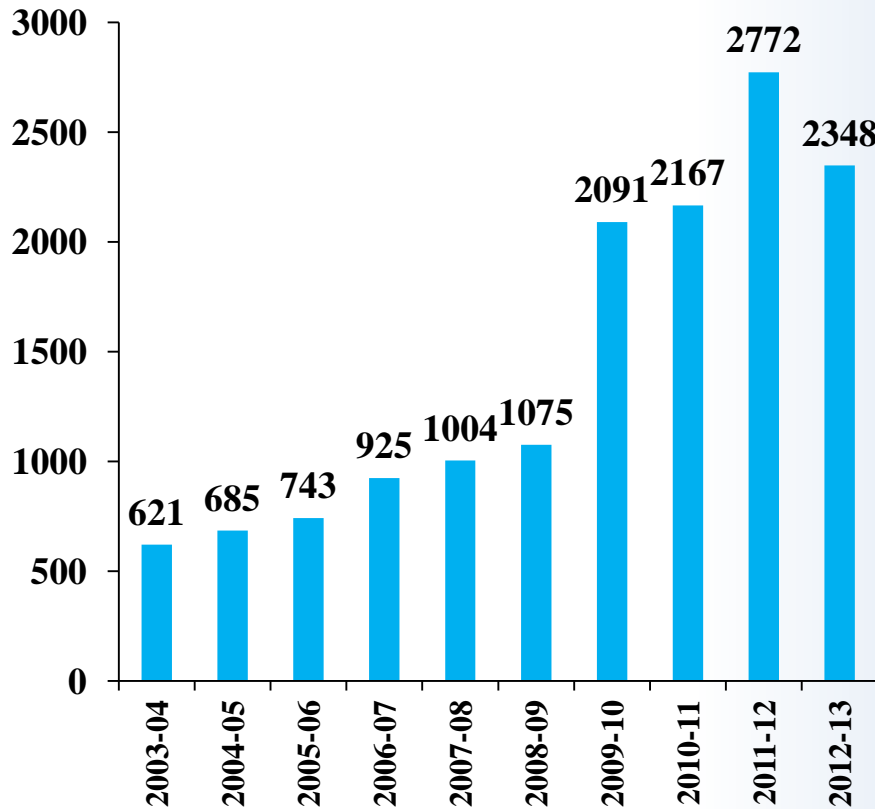
Target	Actual (31.12.2013)	NHPC- % Share
1,22,263 MU	110763 MU	14.36 %



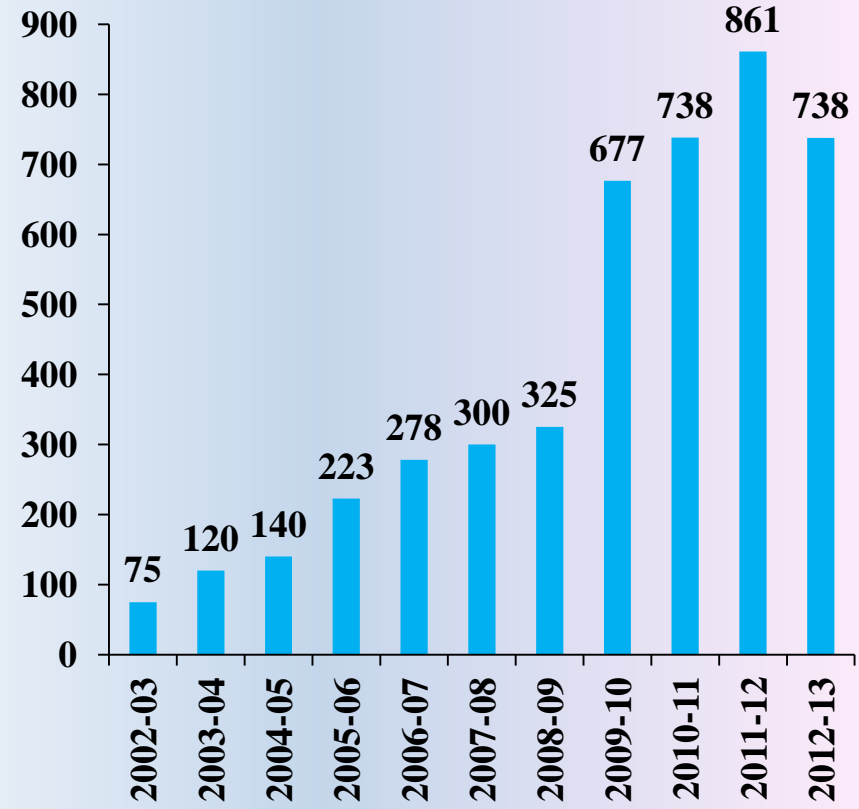
NHPC's Track Record

A Ten Year Digest

Profit After Tax (In Crore)



Dividend (In Crore)



Dividend @ 6% declared for FY2012-13



Operational Projects- Own

S.No	NHPC Project	Location	Installed Capacity (MW)	Year of comm.	Type of the project
1	Baira Siul	Himachal Pradesh	180	1981	Run of River (ROR) with small pondage
2	Loktak	Manipur	105	1983	Storage
3	Salal	Jammu & Kashmir	690	1987/1996	ROR
4	Tanakpur	Uttarakhand	120	1992	ROR
5	Chamera I	Himachal Pradesh	540	1994	Storage
6	Uri I	Jammu & Kashmir	480	1997	ROR
7	Rangit	Sikkim	60	1999	ROR with small pondage
8	Chamera II	Himachal Pradesh	300	2004	ROR with small pondage
9	Dhauliganga I	Uttarakhand	280	2005	ROR with small pondage
10	Dulhasti	Jammu & Kashmir	390	2007	ROR with small pondage

Contd.



Operational Projects-Own



S.No.	NHPC Project	Location	Installed Capacity (MW)	Year of Comm.	Type of the project
11	Teesta V	Sikkim	510	2008	ROR with small pondage
12	Sewa II	Jammu & Kashmir	120	2010	ROR with small pondage
13	Chamera III	Himachal Pradesh	231	2012 (July)	ROR with small pondage
14	Chutak	Jammu & Kashmir	44	2013(Jan.)	Run of River
15	TLDP-III	West Bengal	132	2013 (May)	ROR with small pondage
16	Nimoo Bazgo	Jammu & Kashmir	45	2013 (Oct)	ROR with small pondage
17	Uri -II	Jammu & Kashmir	240	2014 (Feb)	ROR
		Own Stations	4467		



Operational Projects- JV



S.No	NHPC Project	Location	Installed Capacity (MW)	Year of Comm.	Type of the project
Operational Projects with Subsidiary Company – NHDC					
1	Indirasagar	Madhya Pradesh	1000	2005	Storage
2	Omkareshwar	Madhya Pradesh	520	2007	Storage
		Stations with JV	1520		
		Total Power Stations (A+B)	5987		



Projects Under Construction-Own

NHPC Project	Location	Installed Capacity (MW)	Type of the project	CCEA Cost (Rs. Crore) (Price Level)	Anticipated Project Cost (Rs. Crore)	Provisional Project Expenditure till – Jan'14 (Rs. Crore)	*Expected Commissioning Schedule
Parbati III (130x4)	H.P	520	RoR with small pondage	2304.55 (MAY05)	2304	2265.17	FY 13-14 (Q-4)
TLDP IV (40x4)	W. B	160	RoR with small pondage	1061.38 (MAR05)	1502	1436.24	FY 15-16 (Q-2)
Subansiri Lower (250X8)	Assam/ Ar. Pradesh	2000	Reservoir	6285.33 (DEC02)	10667	6468.31	FY 18-19 (Q-2)
Parbati II (200x4)	H.P	800	RoR with small pondage	3919.59 (DEC01)	5366	4239.17	FY 18-19 (Q-2)
Kishanganga (110x3)	J&K	330	RoR with small pondage	3642.02 (SEP07)	3642	3118.93	FY 16-17 (Q-3)
	Total-A	3810		17212.87	23481	17527.82	



Projects Under Clearance-Own



S.No.	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Crore) & PL	Status
1	Kotli Bhel-IA (Uttarakhand)	195	1025	2074 (May'13)	In the PIB Meeting on 23.10.2013, project was recommended for investment.
2	Teesta-IV (Sikkim)	520	2373	3595 (July'09)	Public hearing conducted on 29.03.2012. Stage-I forest clearance has been accorded on 26.02.2013. Environmental clearance awarded on 09.01.2014 by MOEF.
3	Dibang (Ar. Pradesh)	3000	12210	15886 (Nov'07)	EC under process and FC not recommended by FAC. As desired by MOEF, revised forest proposal with reduced land requirement has been submitted to State Forest Department on 10.02.14.
4	Tawang -I (Ar. Pradesh)	600	2963	4824 (May'10)	Environment clearance accorded by MoEF on 10.06.2011 Forest clearance is being pursued.
5	Tawang -II (Ar. Pradesh)	800	3697	6112 (May'10)	Environment clearance accorded by MoEF on 10.06.2011. Stage-I Forest Clearance has been issued by MOEF on 08.01.2014.
Total		5115	22268	32491	

Projects Under Clearance -JV



S.No	Projects	Installed Capacity (MW)	Design Energy (MUs)	Cost (In Cr.) & PL	Status
1	Chenab valley Power Projects Ltd. (JV between NHPC (49%) JKSPDC (49%), & PTC (2%))				
i)	Pakaldul , (J&K)	1000	3330.18	8814.25 (Mar,13)	The PIB Proposal is agreed in principle.
ii)	Kiru (J&K)	600	2301.81	4068.13 (Jan., 12)	TEC, EC under process. FC recommended by FAC of J&K on 22.08.2013. Formal FC letter awaited.
iii)	Kwar (J&K)	520	1976.84	4375.50 (Jan., 12)	TEC and EC under process. FC recommended by FAC of J&K on 09.12.2013. Formal FC letter awaited.
2	Loktak D/S (Manipur) (JV between NHPC (74%) & Govt. of Manipur (26%))				
		66	330.24	627.21 (Oct., 06)	JVC formed & Board started functioning. Concurrence of CEA, is available. In-principle Forest Clearance has been accorded by MOEF on 03.03.11. Environmental clearance has been accorded in Jan'13. Updated DPR/Cost Estimate is under scrutiny in CEA.
TOTAL		2186		17885.09	



Projects Under Pipe Line



S. No.	Projects	State	Installed Capacity (MW)
Projects Under FR/DPR Preparation			
1	Bursar	Jammu & Kashmir	1020
2	Dhauliganga Intermediate	Uttarakhand	210
3	Gauriganga-III A	Uttarakhand	120
	Total		1350
Foreign Assignment Projects (FAP)			
1	Chamkharchhu (Under discussion at Govt. level as JV Project between NHPC And DRUKGreen, Bhutan)	Bhutan	770
	Sub Total (FAP)		770
	Total		2120



Initiatives in the Development of Other Renewable Energy



Solar Energy

MOU Signed for formation of JVC for implementation of 50 MW Solar Power Project at Tehsil Kalpi, District Jalaun, Uttar Pradesh.

Wind Energy

MOU Signed between NHPC & C-WET regarding consulting services for setting Wind Power Projects. Further MoU has been signed on January 06, 2014 between NHPC Limited and Government of Kerala for the development of Wind Power project by NHPC in Kerala. As per the agreement NHPC shall take up the grid interactive wind energy project with proposed installed capacity of 82MW in Palakkad District of Kerala.



Other Business Development Initiatives

Thermal

- Signed an MOU with IFFCO and CSPHCL for acquisition of IFFCO share in existing joint venture in thermal project at Sarguja in Chhattisgarh – **1320 MW**.
- NHPC Ltd. qualified for submission of bid as a Sole Applicant for Odisha Ultra Mega Power Project at Sundargarh Distt., Odisha , with Bid due date being 26.02.2014.- **4000 MW**
- Discussions are going on for taking up project at Bhagalpur, in the state of Bihar. MOU is scheduled to be signed on 22.02.2014.-**1320 MW**





Investment Plan



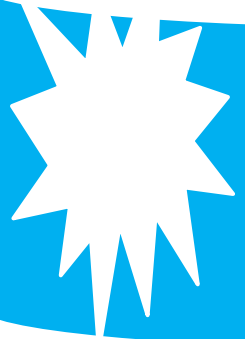
Proposed XII Plan Expenditure

(FY 2012-13 to 2016-17)



F.Y	Amount (Rs. In Crore)	Remarks
2012-13	3307	<ul style="list-style-type: none">• During 12th Plan, 1702 MW capacity would be added from the ongoing construction projects. Till date i.e. (up to Dec'13) 632 MW have been commissioned.• Apart from that, the construction of other projects, which are under various stages of Govt. clearances, would takeoff during the 12th Plan.
2013-14	3058	
2014-15	3224	
2015-16	5375	
2016-17	5036	
Total	20,000	





Financial Highlights



STATEMENT OF PROFIT & LOSS

(Rs. in Crores)

	<u>Nine Months ended</u> <u>31.12.13</u>	<u>Nine Months ended</u> <u>31.12.12</u>	<u>Variation</u>
Power Station (No.)	17 [4407 MW]	14 [4050 MW]	357 MW
Generation (MU)	15884 (14610+1274)	16421 (15773+648)	-3%
Unit Sold (MU) :	14003 (12767+1236)	14269 (13773+496)	-1.86%
Revenue from Operations (Net Sales)	4339	4011	8.18%
Other Income/Other Operating Income	876	873	0.34%
Total Income	5215	4884	6.78%
Employee Cost	694	651	6.61%
Depreciation & Amortisation	874	715	22.24%
Other General Expenses	987	837	17.92%
Finance Cost	387	283	36.75%
Total Expenditure	2942	2486	18.34%
PBT	2273	2398	-5.21%
Tax	587	633	
PAT	1686	1765	-4.48%

STATEMENT OF LIABILITIES & ASSETS



Particular	As at 31.12.2013	As at 30.09.2013	As at 31.03.2013
EQUITY FUND & LIABILITIES			
Share Holder's Funds	27,164.79	29273.34	27840.50
Loan Funds	20173.61	19645.11	18627.30
Deferred Tax Liabilities	585.34	501.27	460.69
Other Long term Liabilities & Provisions	2,490.61	2580.77	2427.61
Current Liabilities & Provisions	5219.83	5426.29	5148.90
Total Equity & Liabilities	55,634.18	57426.78	54505.00
ASSETS			
Capital Work in Progress	17,336.63	19548.53	19709.04
Fixed Assets (Net)	21,965.58	19443.87	18039.96
Non Current Assets (Others)	4,478.55	4763.21	4583.72
Trade Receivables	2,364.61	2481.46	2049.05
Cash and Bank Balances	5,088.84	6794.54	5616.01
Current Assets (Others)	4,399.97	4395.17	4507.22
Total Assets	55,634.18	57426.78	54505.00



Factors affecting PAT

(Rs. in Crore)

Factors for increase in PAT	Total
Increase in Net Sales	327.68
Net Increase in Other Income/Other Operating Income	3.31
Decrease in Taxation	46.04
Increase (A)	377.03
Factors for decrease in PAT	
Increase in Employee Cost	42.39
Increase in Generation, Administration & Other expenses	149.82
Increase in Depreciation & Amortisation expenses	159.46
Increase in Finance Cost	104.13
Decrease (B)	455.80
Net Decrease in Profit After Tax (A-B)	(78.77)

Incentive & Receivables

Details of Incentives, Secondary Energy, UI Charges (Rs. In Crores)

S.No	Particulars of Incentives	As on 31.12.2013	As on 31.12.2012	As on 30.09.2013	As on 30.09.2012	As on 30.06.2013	As on 30.06.2012	As on 31.03.2013
1	Secondary Energy	106.21	127.13	85.78	104.60	63.39	63.14	111.17
2	Incentives	206.96	176.21	186.45	158.88	93.85	83.94	158.72
3	UI Charges	56.83	89.34	34.95	67.92	23.37	44.13	115.86

Receivables (Rs. In Crore)

S.No.	Quarter wise	Trade Receivables (net of provision)	More than 60 days
1	As on 31 st Mar'13	2049.05	829.95
2	As on 30 th Jun'13	2752.11	721.06
3	As on 30 th Sep'13	2481.46	1001.99
4	As on 31 st Dec'13	2364.61	1050.24



Financial Ratios



Ratios	FY 12-13	FY11-12
EPS (Rs.)	1.91	2.25
Book Value	22.63	21.42
Market Price as on 31 st March	19.90	19.65
P/E Ratio	10.42	8.73
P/B Ratio	0.88	0.92
Market Capitalization	24478	24171
RONW	8.43%	10.52%
D/E Ratio	0.63	0.62



Thanks

