NTPC Welcomes You To 9th Analysts and Investors Meet

INVESTORS PRESENTATION

1ST August **2013**



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Presentation by Sh. A.K. Singhal Director (Finance)



NTPC: VISION AND CORE VALUES

To be the world's largest and best power producer, powering India's growth



OUTLINE

About NTPC
Recent Financial Highlights
Opportunities and Sectoral Growth Drivers
Competitive Position
Risks and Mitigants
Growth and Capex Plans
Sustainability Initiatives



NTPC: SNAPSHOT



1. Power Generation

- As of July 31, 2013 total installed power generation capacity of 41,184 MW (including 5,364 MW through other group companies)
- ✓ 20,064 MW of capacity, under construction
- ✓ 1st Hydro project to be commissioned in the next financial year
- Forayed into renewable energy projects- 10 MW Solar capacity commissioned in FY 2012-13, 85 MW Solar projects under construction
- Global footprint in Sri Lanka and Bangladesh through JVs, contributed seed capital to both international JVs

2. Power Trading

- ✓ Subsidiary NVVN is the prominent power trader in India¹
- Also appointed for power supply to Bangladesh and nodal agency for trading power with Bhutan

3. Mining and Oil Exploration

- ✓ 6 coal mining blocks allotted to NTPC by GoI, work under progress
- 4 new coal blocks allotted for 8460 MW capacity-Banai, Bhalmuda, chandrabila, Kudanali-Laburi
- ✓ Awarded oil exploration blocks

4. Power Equipment

JVs for manufacturing power equipment, castings, forgings, high voltage equipment and Balance of Plant (BoP) equipment for Indian and international markets

5. Others

- ✓ Electricity distribution business through its subsidiary NESCL
- Consultancy services to State Electricity Boards, state generating companies and other private companies
- ✓ 5 MTPA LNG Terminal at Dabhol through JV, 1 MTPA commercial

NTPC Group has 22 JVs and 5 Subsidiary Companies

Note:

- 1. As per CERC report ,2013, it was 4th largest power trader in FY13.
- 2. As of March 31, 2013.
- Ranking based on asset worth, revenues, profits, and return on invested capital (ROIC) in CY12. http://top250.platts.com/Top250Rankings/2012/Region/IndependentPowerProducersandEnergyv Traders.
- 4. Closing stock price on NSE @ Rs.148.15 as on July 01, 2013
- * Includes NTPC captive generation of 2.6 BU

- ✓ Incorporated as a Government company in 1975; amongst 7 Maharatna Gol companies, empowered to make its own investment decisions
- ✓ Accounts for 18.44% of India's total installed capacity²

Highest ever capacity addition of 4170 MW during FY13 – contributed to 20% of total addition in the country

- NTPC Group generated 249.59* BU of electricity which is 27.37% of India's total generation in FY13
 - Stand-alone NTPC generation of 232.03 BU in FY13
- Ranked as the No.1 IPP and Energy Trader Globally by Platts³
- Ranked 384th largest company in the world in the Forbes Global 2000 list 2013

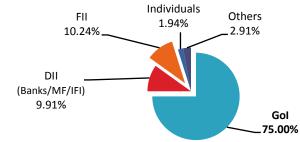
FY13 Key Financials

(Rs. Crore)

P&L	Consol	Stand-alone	Balance Sheet	Consol	Stand-alone
Revenue	72,541	68,776	Total Debt	70,036	58,146
EBITDA	21,346	20,750	Cash & Bank Bal.	18,738	16,868
PAT	12,591	12,619	Net Debt	51,298	41,278

- ✓ Total revenue of Rs.68,776 crore includes consultancy and other income of Rs.3,102 crore
- ✓ Highest ever additional capacity of 4,170 MW added during FY13
- Exceeded XI plan target of 9,220 MW capacity addition by adding 9,610 MW over that period

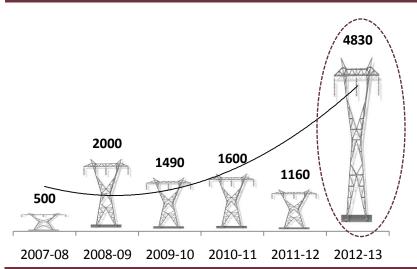
Market Capitalization of Rs. 1,22,157 crore⁴ as on July 1, 2013



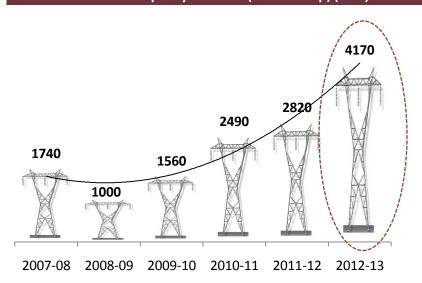
Shareholding pattern as on 30th June 2013

YEAR OF RECORDS: 2012-13

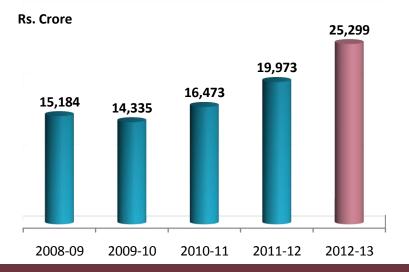
Year Wise Commercial Capacity Addition (NTPC Group) (MW)



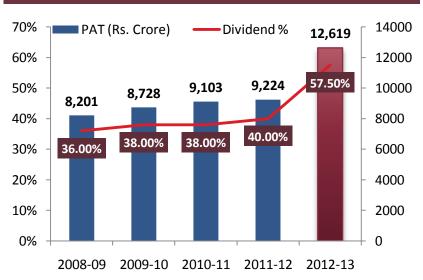
Year Wise Installed Capacity Addition (NTPC Group) (MW)



Year Wise Capex (NTPC Group)



Year wise Profit After Tax and Dividend %



•Special Dividend of Rs.1030.68 crore recommended by Board of Directors for the first time since inception •Investment Approval of 8521 MW accorded by Board of Directors in a single year.

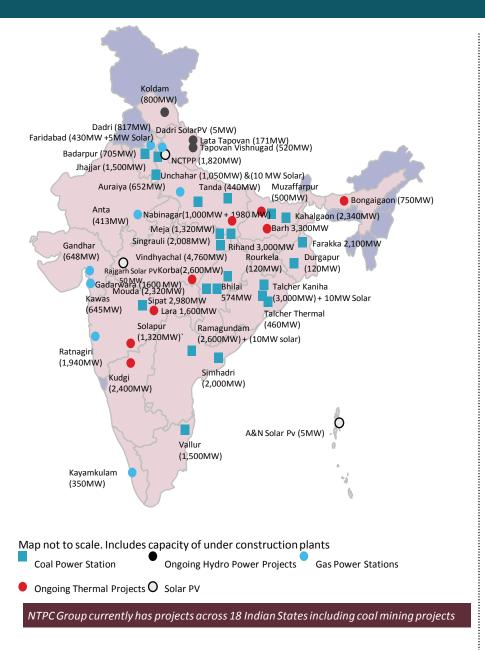


WHAT WE PROMISED ... IS WHAT WE DELIVERED

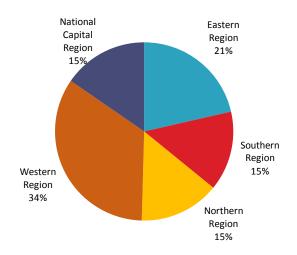
Actual Performance Against Commitments Made to Investors as of 1 August, 2012

Actual Performance Against Commitments Made to investors as of 1 August, 2012					
Guidance	Performance				
1 ✓ Improve upon PAF of previous year (FY12) i.e. >88.35%	✓ PAF FY13 :87.62% (PAF Oct-December 2012: 88.56% and Jan-Mar 2013 : 92.66%)				
Commissioning of balance 2,000 MW i.e. 500 MW each at Mouda, Vindhyacha, Vallur and Jhajjar	✓ Commissioned entire 2,000 MW as promised in Aug 2012 to March 2013				
Declare commercial 2,000 MW (NTPC stand-alone) i.e. 500 MW each at Simhadri, Vindhyachal, Rihand and Mouda	✓ Declared commercial 2,000 MW as promised -500 MW each at Simhadri, Vindhyachal, Rihand and Mouda				
Expedite award of bulk tender projects of 6,780MW at Nabinagar, Lara, Gajmara and Darlipalli	 Main plant awarded for Lara -1,600 MW Main plant awarded for Nabinagar – 1,980 MW Main plant award for Gadarwara (1,600 MW) in place of Gajmara 				
Capex target for 2012-13: Rs.20,995 crore (\$3.8bn) of which 17,017 crore (\$3.1bn) was to be made from July 2012–March 2013	 ✓ Capex incurred in FY 2012-13 Rs.19,926 crore (US\$3.63bn) ✓ Group capex incurred during 2012-13 is Rs.25,299 crore (US\$4.61bn) 				
Revocation of de-allocation of NTPC mines	✓ MoC conveyed formal withdrawal of de-allocation vide letter dt. 23.01.13				
Regulated equity by FY13E to be Rs.32,431 crore (\$5.91bn)	★ Regulated equity at end of FY13: Rs.32,576 crore (US\$5.93bn)				

NTPC GROUP: PAN INDIA PRESENCE



Geographical Spread of NTPC Group Capacity (As of March 31, 2013)



Total: 41,184MW

Fuel Mix	No. of Plants	Capacity (MW) ¹	% Share
NTPC Owned			
Coal	16	31,855	77.36%
Gas/Liquid Fuel	7	3,955	9.60%
Solar	2	10	0.02%
Sub-total	25	35,820	86.98%
Owned by JVs and	Subs		
Coal	6	3,424	8.31%
Gas	1	1,940	4.71%
Sub-total	7	5,364	13.02%
Total	32	41,184	100.00%

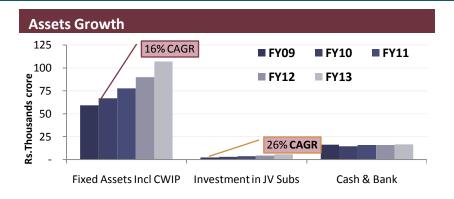
1. As of March 31, 2013.



RECENT FINANCIAL HIGHLIGHTS

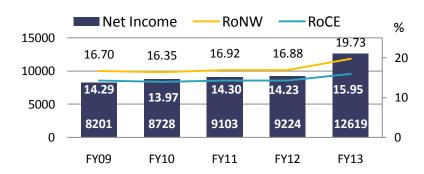


FINANCIAL HIGHLIGHTS 2012-13



Capex Growth 25000 20000 15000 10000 19,926 15,994 13,225 12,956 5000 10,467 0 FY09 FY10 FY11 FY12 FY13

Margin Growth

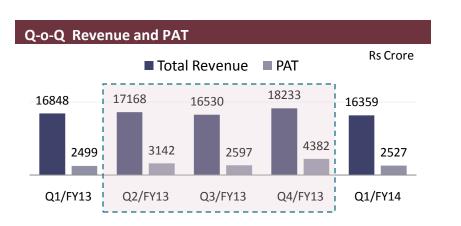


All financial figures in Rs. Crore except where specified

Financial Year 2013			
Year	FY13	FY12	%Change
Key P&L Highlights			
Total Revenue	68,775.51	64,841.88	+6.1%
Profit Before Tax	16,578.63	12,326.16	+34.5%
Net income	12,619.39	9,223.73	+36.8%
Key Balance Sheet Highlights	s		
Total Assets	161,116.46	140,830.74	+14.4%
Capital WIP	37,109.42	41,827.86	-11.3%
Investments	10,760.10	11,206.38	-4.0%
Year end Cash Balance	16,867.70	16,141.83	+4.5%
Net worth	80,387.51	73,291.17	+9.7%
Total Debt	58,146.30	50,279.37	+15.6%
Other Highlights			
Operating Cash Flows	15,495.17	10,709.85	+44.7%
Book Value Per Share (Rs.)	97.49	88.89	+9.7%
Dividend per Share (Rs.)	5.75	4.00	+43.8%
EPS (Rs.)	15.30	11.19	+36.8%
Dividend yield at year end*	4.05%	2.46%	+159ppt
Price/Book at year end*	1.46	1.83	<u>-</u>
*Based on year end share price of Rs.141.99 respectively	5 and Rs.162.75 as	on 31.03.2013 a	nd 31.03.2012

FINANCIAL HIGHLIGHTS Q1/FY14

Position Statement Q1FY14						
Quarter Ended	Q1/FY14	Q1FY13	% change			
Key Balance Sheet Highlights						
Fixed Assets incl. CWIP	103,540.48	90,451.73	+14.5%			
Investments	10,950.85	11,962.72	-8.5%			
Cash & Bank Balance	18,622.04	18,341.12	+1.5%			
Other Assets	33,870.46	27,879.09	+21.5%			
Total Assets	166,983.83	148,634.66	+12.3%			
Net Worth	82,914.53	75,789.83	+9.4%			
Total Debt	60,139.98	54,021.56	+11.3%			
Other Liabilities	23,929.32	18,823.27	+27.1%			
Total of Liabilities	166,983.83	148,634.66	+12.3%			



Income Statement Q1FY14			
Quarter Ended	Q1/FY14	Q1/FY13	% change
Earnings Highlights			
Revenue from Operation	15,661.85	16,165.95	-3.1%
Other Income	696.93	681.99	+2.2%
Total Revenue	16,358.78	16,847.94	-2.9%
Expenses			
Fuel Cost	9,425.83	10,597.72	-11.1%
Employee benefit exp	942.50	793.72	+18.7%
Depreciation	942.33	760.22	+24.0%
Generation & Other Costs	979.28	941.00	+4.1%
Finance Cost	617.41	499.35	+23.6%
Profit Before Tax	3,451.43	3,255.93	+6.0%
Tax Expense	924.41	757.26	+22.1%
Profit After Tax	2,527.02	2,498.67	+1.1%
Other Financial Highlights			
EPS (Rs.)	3.06	3.03	1.1%
Book Value Per Share (Rs.)	100.56	91.92	+9.4%

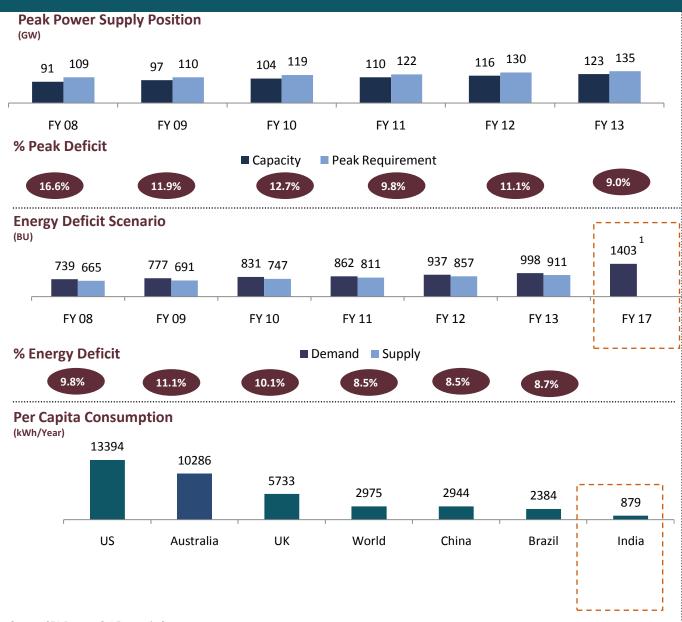
Book Value Per Share (BVPS) crosses Rs. 100 mark in Q1/FY14



OPPORTUNITIES AND SECTORAL GROWTH DRIVERS



POWER DEMAND SUPPLY



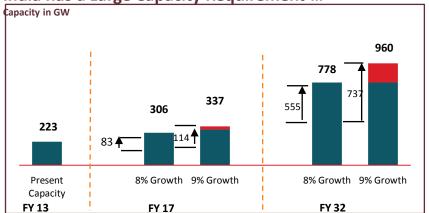
- Power deficit scenario has sustained despite capacity addition
 - 8.7% energy deficit in FY13 (~87BU)
 - 9.0% peak deficit in FY13 (~12 GW)
- Notwithstanding sustained demand, India continues to be among the lowest per capita consumers of electricity globally, lagging Brazil and China by ~3:1
- Per capita consumption c.29% of the world average
- ✓ Massive investments of Rs.17,47,323 crore are planned in 12th plan¹
- ~ 106GW of capacity¹ addition required (during 12th plan) to meet 8% GDP growth rate target

Source: CEA Report, Gol Economic Survey.

- 1. Report on financing of infrastructure Planning commission.
- 2. World Bank indicator EG.USE.ELEC.KH.PC (web site) except India data for 2010 and India's data as on 31.03.2012 (source CEA)

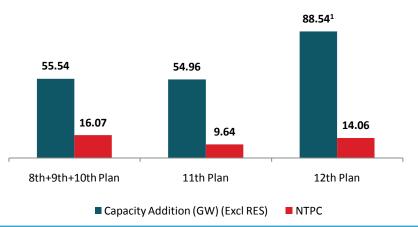
12TH PLAN

India has a Large Capacity Requirement ...



- ✓ 37% of existing capacity needs to be added by FY17 to achieve 8% GDP growth
- ✓ Average annual capacity addition of ~21 GW required till FY17

Capacity Expansion Plans (GW)

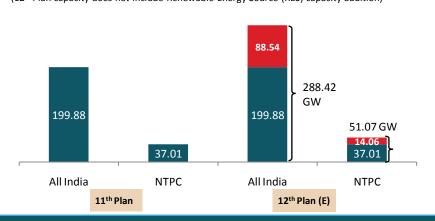


... with Significant Investments Planned in the Sector

	12 th Plan (2012–17)
Capacity excl. RES (MW) ¹	88,536.6
Expected Investments in Power Sector (Rs. Crore) ²	14,99,914
Expected Investments in Non- Conventional Energy (Rs. Crore) ²	2,47,409

Cumulative Capacity (GW)

(12th Plan capacity does not include Renewable Energy Source (RES) capacity addition)



12th Plan NTPC Own Capacity Addition: 11,168 MW, Through JVs/Subs: 2,890 MW, Total Capacity Addition: 14058 MW

COMPETITIVE POSITION



KEY COMPETITIVE STRENGTHS



Leadership Position in the Indian Power Sector

Long-term Fuel Security

High Operational Efficiency

Ability to Turn Around Underperforming Power Stations

Low Cost Power Producer

Prudent Off-take Policy

Strong Balance Sheet

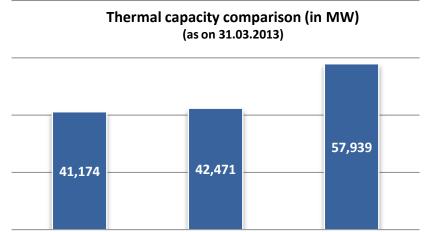
Competent and Committed Workforce

Integrated Business Model – de-risks main business

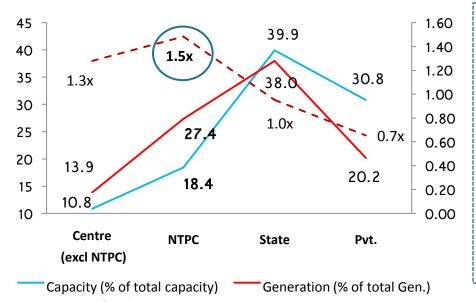
MARKET LEADER

Financial & Physical Dominance

Rs Crore	एनदीपीसी NTPC	Reliance Power	Tata Power	Adani Power	JSW Energy
Market Cap as on 01.07.2013	1,22,157	19,327	21,892	12,234	7,569
Installed Capacity(GW)	41.2	2.5	8.5	5.9	3.1
FY13 Assets	1,61,116	51,934	28,093	38,252	20,350
FY13 EBITDA	20,750	2,070	2,746	1,332	2,739



Maximum Efficiency & Performance (Total Capacity and Total Generation Basis)



The largest Indian power generation company

NTPC Thermal

✓ Contribution in generation by State Sector is 38%, Center contributes 41% and balance 20% is contributed by Pvt. Sector.

Private Thermal

✓ With 18.44% share in total capacity of the country NTPC contributes 27.37% to the total generation. — an efficiency factor of 1.5 times of the share in capacity

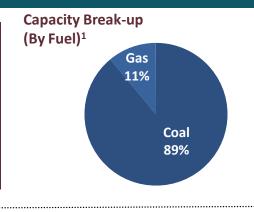
एनरीपीसी NTPC

State Thermal

LONG-TERM FUEL SECURITY

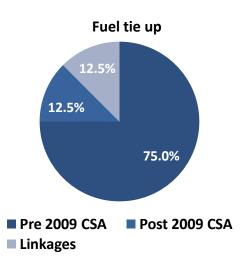


Coal: Long-term Fuel Security



- ✓ Implements projects only upon establishing availability of fuel
- 'Maharatna' status provides very high level of autonomy with regards to investments in backward integration and new fuel sources
- ✓ By 2032, reliance on coal based fuel to reduce from present 89% to 56%

Fuel Source Break-up – Stations (By Capacity)¹



- ✓ Long-term Coal Supply Agreements (CSAs) with Coal India Limited (CIL) and Singareni Collieries Company (SCCL)
- ✓ 10 out of 16 coal plants (accounting for 76% of directly owned coal-fire capacity)
 within 80 km of coal mines with own merry go round rail system/belt conveyor
 system
 - Supplies for the other 6 plants transported through national railway system
- ✓ Developing 6 coal blocks allotted to NTPC
 - Estimated geological reserves of over 3BT
 - First coal mine Pakri-Barwadih expected to be operational during 2013-14
- ✓ 4 more new coal blocks allotted to NTPC with estimated geological reserves of ~2BT
- ✓ Imported coal accounted for 5.9% of total coal received in FY13; Pricing linked to global indices
 - Flexibility to increase imported coal blending from the current levels
- ✓ Also sources coal through e-auctions conducted by coal companies

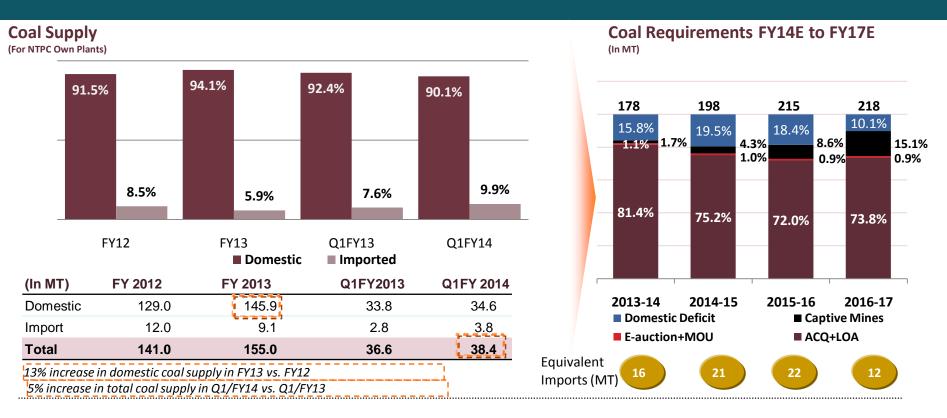


STATUS OF COAL SUPPLY AGREEMENTS

- •Long Term CSAs available for 87.5% of current standalone installed capacity
- •Long Term CSAs signed for all stations commissioned prior to 01.04.2009 i.e. for 23895 MW
- •For Units commissioned after FY09 (including 1660 MW yet to be commissioned):
 - Out of standalone capacity of 9620 MW
 - CSAs for 4760 MW capacity signed till 17.07.2013
 - CSAs for balance 4860 MW capacity to be signed shortly
 - For JV capacities, CSAs for 4390 MW to be signed:
 - Out of which CSA for Vallur (JV with TNEB) signed with MCL for a capacity of 1000 MW, CSAs for balance 3390 MW to be signed shortly



LONG-TERM FUEL SECURITY (CONT'D)



- ✓ The deficit in domestic coal is likely to increase in the next 2 years but will get lower by FY17
- ✓ Usage of inland waterways to transport imported coal—reduction of dependence on railways.
- NTPC plans to tide over this gap through long-term Fuel Supply Agreements (FSAs) with existing suppliers as well as through coal production from the 10 coal blocks allocated by the Government
 - Commencement of production in FY14 from captive coal blocks to support PLFs of existing capacities till supply levels from
 Coal India improve and new capacities based on these captive blocks are brought on-stream

CAPTIVE COAL BLOCKS FOR LONG-TERM FUEL SECURITY (CONT'D)

- ✓ Six coal mining blocks allocated to NTPC
 - Pakri Barwadih, Talaipalli, Dulanga, Kerandari, Chatti Bariatu and Chatti Bariatu (South)
 - Estimated geological reserves of over **3BT**
 - Incurred cumulative Capex of Rs.1,536 crore till Q1FY14
 - Target coal production of ~33 MT by FY17 from 5 of the coal blocks
 - Peak production capacity of these mines is 53 MT

Current Development Status of the Coal Blocks

	Coal Blocks				
Particulars	Pakri Barwadih	Chatti-Bariatu	Kerandari	Talaipalli	Dulanga
Environment Clearance	✓	✓	✓	✓	In-principle clearance obtained
Forest Clearance	\checkmark	\checkmark	√ ∗	In Process	In Process
Acquisition Notifications	✓	✓	✓	✓	✓
Appointment of Mine Developer cum Operator (MDO)	✓	✓	In process	✓	In process

^{*} First Stage clearance received

New Coal Blocks

✓ 4 new coal mining blocks allocated to NTPC

- -Banai (Chhatisgarh), Bhalmuda (Chattisgarh), Chanrabila (Odisha), Kudanali-Laburi (Odisha)
- −Estimated geological reserves of ~ 2BT
- -Estimated Capacity: 45MTPA of which 2.5 MTPA for J&K

	Coal Blocks				
Particulars	Banai	Bhalmuda	Chandrabila	Kudanali-Laburi	
Geological Reserves (MT)	629	550	550	266	
Block Area (Km²)	~17	~16	~9	6.5	
Estimated Mine Capacity (MTPA)	12	14.4	10.8	7.8	
Status of Mine	Exploration under progresss by CMPDIL	Unexplored	Unexplored	Unexplored	

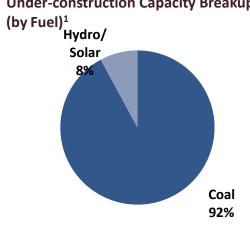
Source: Ministry of Coal's press release dated 03.07.2013

- Long-term gas supply agreements with GAIL under APM for supply of gas to all directlyowned gas power stations at regulated pricing under Government orders
- Domestic natural gas (KG-D6) supply agreements on a long-term basis at prices approved by GoI for four plants
- ✓ Gas and R-LNG from public and private sector companies on a spot, short and/or long-term basis
- All owned gas plants strategically located along major gas pipelines

Details of Gas/RLNG tie ups for NTPC Existing Gas Stations

Stations	Source/	Contracted Quantity	Contract
Gas Type	Supplier	(MMSCMD)	Valid Till
APM / PMT Gas	ONGC / GAIL	14.48	2021/2019
Non-APM Gas	ONGC / GAIL	0.82	2016
KGD6 Gas	RIL / Niko / BPEAL	2.30	2014
RLNG-Long- term	GAIL	2.0	Dec 2019
Spot/Fallback RLNG	Domestic suppliers	Based on demand form time to time	On reasonable endeavour basis

Under-construction Capacity Breakup



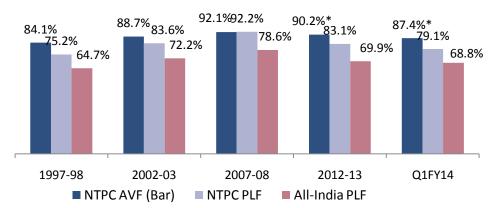
Total: 20,064 MW

- Planning to reduce its carbon footprint and reduce dependence on existing fuel sources
- ✓ 10 MW Solar PV projects under operation
- ✓ 1,499 MW hydroelectric and 85MW solar PV projects already under construction
- ✓ 120 MW of hydro capacity and 15MW of other renewable capacity currently under bidding
- Formed JV with Nuclear Power Corporation of India in January 2011 with the objective of setting up a nuclear power project
 - Planning to set-up 1,400MW PWHR nuclear power plant in Haryana



HIGHLY EFFICIENT PLANT OPERATIONS

Proven Operational Excellence

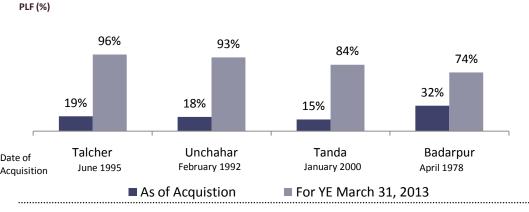


- Among lowest cost producers of power in India
- Successful in growing and achieving high PLF despite fuel shortage concerns in India
- ✓ In FY13, 6 coal based stations out of 16 achieved more than 90%
- On forefront of adopting latest and most efficient technology—commissioned its first super-critical project at Sipat in 2011
- ✓ Market leader in terms of setting up of projects based on super-critical technology (~78% of under construction thermal capacity)

Turnaround at Acquired Plants

AVF (DC) 2012-13 is 87.62% and AVF (DC) for Q1FY14 is 84.85%

Source: Company data.



- Through in-depth engineering, renovation and management capabilities has turned around sick plants across India
- Experience of operating and managing power plants with varied fuel sources and technologies

Stellar Track Record

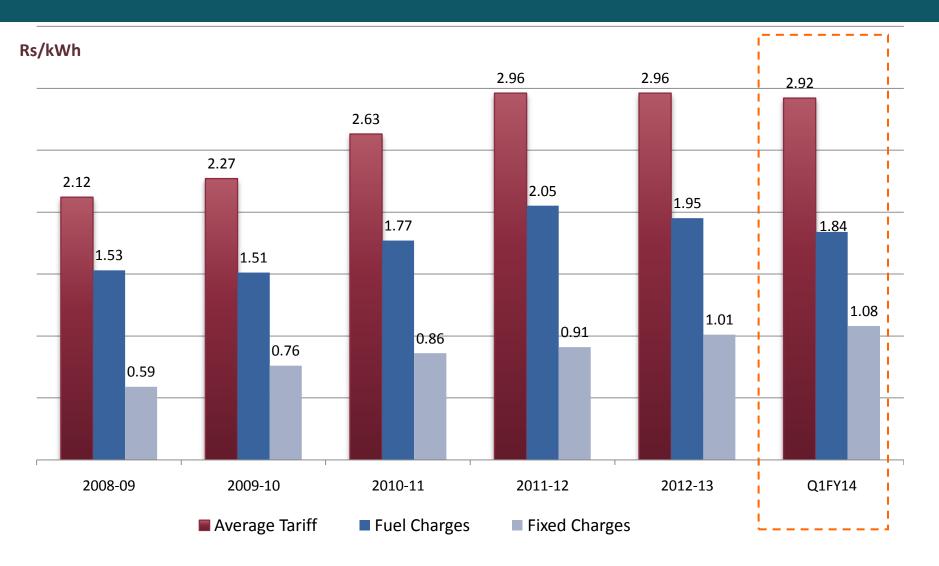
- ✓ Accounted for 27.37% of India's power output despite having only 18.44% of the total generation capacity in FY13
- ✓ Maintenance practices and real-time monitoring system ensure high availability and efficient operations
- ✓ Implementing Perform Achieve Trade (PAT) Scheme under National Mission on Enhanced Energy Efficiency at 22 power stations.

Source: CEA.

1. For NTPC owned plants.



Sustaining its Status of Competitive Cost Power Producer



Coal Based Plants Close to Pit Head Stations Ensure Competitive Variable Cost of Generation

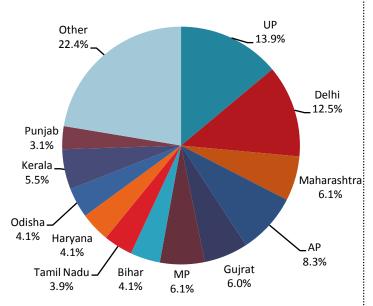
^{1.} Based on NTPC stand-alone data.

PRUDENT OFF-TAKE POLICY

Secured Off-take

- PPAs have been signed for all operating and under construction projects
- Policy of securing PPAs for all new plants before approval is given for investment
- Entire power output of NTPC power stations has been contracted under PPAs
- NTPC does not presently sell any power in the merchant market, so they are immune to volatile merchant power prices

Geographically Diversified Customers¹



1. Based on billing for FY13.

Bolstered by a Regulated Pricing Mechanism ...

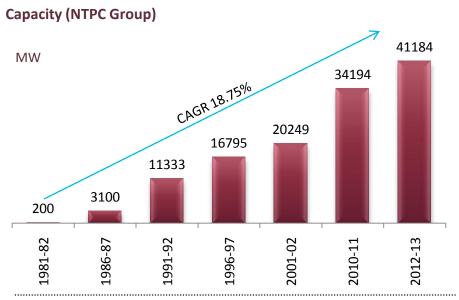
- ✓ Tariffs based on Regulations notified by CERC for the period 2009–2014
- Capacity charges: Allowed to recover the capacity charge in full if plant availability is at least 85%
 - Return on equity on pre-tax basis at a base rate of 15.5%, to be grossed up by the applicable tax rate
- Energy charge: Fuel cost is a pass-through to the customer
- ✓ The recovery of interest cost on normative debt and return on equity on a prescribed 70:30 debt to equity ratio
- New Regulations are also expected to be balanced considering negative sentiments for new investments

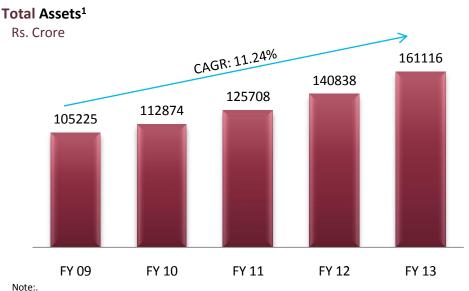
... and Coupled with High Collection Efficiency



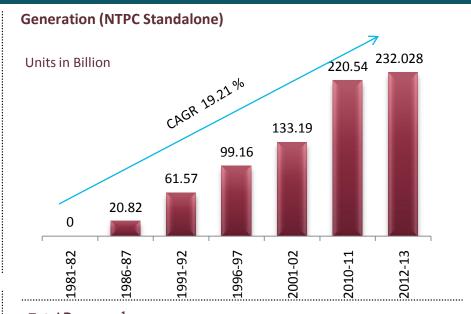
- 100% collection efficiency 10th year in succession in FY13
- Payment Security Mechanisms
 - LC coverage from SEBs adequate to cover monthly billing
 - Tripartite Agreements between Government, RBI and each state in terms of the Scheme for One Time Settlement of SEB dues valid till October 31, 2016
 - Recourse to Reserve Bank of India (RBI) in case of default in making payment
 - Supplementary agreements signed with all discoms for first charge over State utilities' receivables after 2016

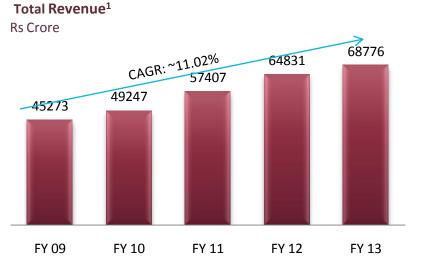
ROBUST FINANCIALS- PROVEN ALL ROUND TRACK RECORD



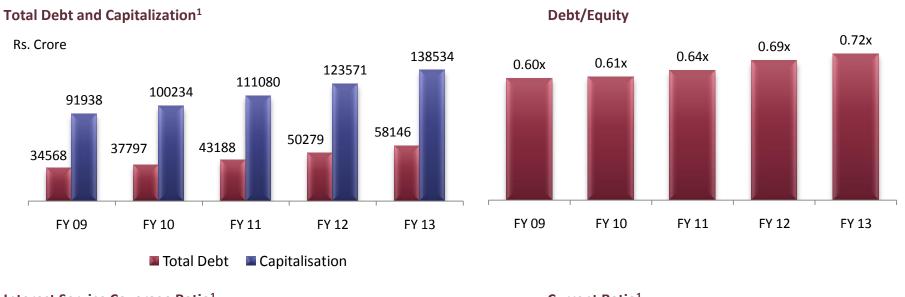


1. Based on stand-alone NTPC numbers.





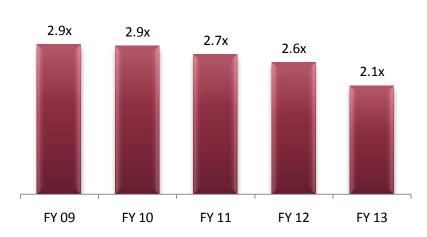
ROBUST FINANCIALS CONTD...



Interest Service Coverage Ratio¹



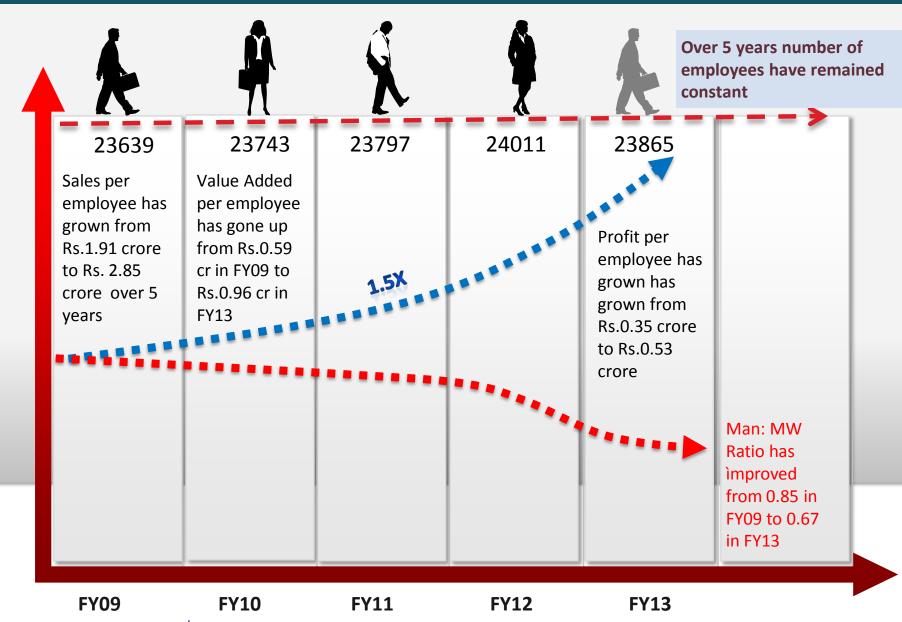
Current Ratio¹



Strong Credit Metrics Ensure Debt at Optimal Cost

Based on stand-alone NTPC numbers.

HUMAN RESOURCE METRICS



Presence Across the Power Value Chain

Integrated Business Model – Within the Business and Across the Value Chain

Coal Mining & Exploration

- № 10 coal mining blocks awarded directly to NTPC by GoI with GR of ~ 5 BT
- ✓ Aim to meet ~ 15% of its coal requirement from its captive mines by 2017
- Awarded 1 oil exploration block by Gol with a 100% interest and 3 oil exploration blocks to separate consortiums in which NTPC holds a 10% interest
- ✓ 5 MTPA LNG Terminal at Dabhol through JV

Equipment Manufacturing

- NTPC has formed JVs with BHEL and Bharat Forge Ltd.
- ✓ JVs for manufacturing power equipment, castings, for gings, high voltage equipment and Balance of Plant (BoP) equipment for Indian and international markets
- Also acquired a stake in Transformers and Electricals Kerala Ltd. (TELK) for manufacturing and repair of transformers

Power Generation

- ✓ Total installed power generation capacity of 41,184MW
- √ 20,064MW of capacity under construction
- 1st Hydro project to be commissioned in the next fiscal year
- Also developing other renewable energy projects, such as wind and solar, as well as nuclear power projects
- Global footprint in Sri Lanka and Bangladesh through JVs

Power Distribution/ Consultancy Services

- NTPC has forayed into the power distribution business through its subsidiary NESCL
- NESCL actively engaged in rural electrification
- NTPC also offers consultancy services to State Electricity Boards, State generating companies and other private companies both in India and abroad

Power Trading

- NTPC's wholly owned subsidiary 'NTPC Vidyut Vyapar Nigam Ltd.' (NVVN) is prominent power trading company in India. It traded over 8 billion units of electricity in each of the FY12 and FY13
- NVVN has also been appointed as nodal agency for trading power with Bangladesh and Bhutan



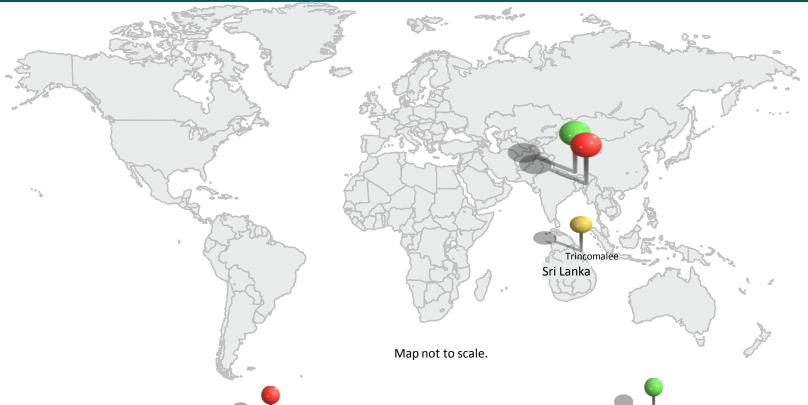








GLOBAL FOOTPRINT





- 2x250MW coal based power project in Trincomalee through a JV Co. "Trincomalee Power Co. Ltd." with Ceylon Electricity Board (CEB)
- Sampur site in Trincomalee region is identified for the project. Feasibility study has been prepared and submitted to CEB

Bangladesh

- ✓ 1320MW imported coal based power plant at Khulna
- M Being Developed through a 50:50 JV Co. with BPDB on BOO basis. A JV Co. 'Bangladesh-India Friendship Power Company (Pvt.) Limited' incorporated. PPA signed for the same
- Consultancy Agreement with EGCB for providing O&M services for 2x120MW Gas based power plant. This is the largest single international order received by NTPC

Bhutan

- Agreement with Royal
 Govt. of Bhutan for
 preparing
 DPR for 620MW Amochhu
 Reservoir based HEP
- NVVN appointed as the nodal agency for trading power from Bhutan

RISKS AND MITIGATION



KEY RISKS AND MITIGATION

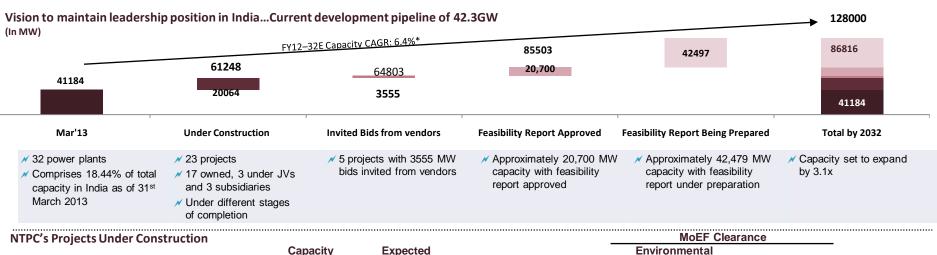
Risk	Mitigation
Coal and Gas Supply Constraints	 Long term Fuel Supply Agreements signed with CIL for supply of coal for a period of 20 years for stations set up prior to March 2009 – ACQ supply tied up ~124.9MT FSA being signed for post 2009 stations, FSA for 4.76 GW signed up, for 4.86 GW in process. 6 captive coal blocks with reserves of ~3BT, target production of ~33MT by FY17, 4 new blocks allotted Long Term APM/PMT Gas Supply Agreement with GAIL for supply of 14.48 MMSCMD gas upto 2021/2019 Long term Agreement with GAIL for supply of 2.5 MMSCMD of RLNG till 2019 Fallback agreements with GAIL BPCL,IOC and GSPL for supply of gas on Reasonable Endeavour basis Govt. allocated 4.46MMSCMD from KG-D6 for NCR projects
SEB Financial Distress	 Tripartite agreement in place with RBI SEB's required to issue LCs covering 105% of the average monthly billing Realized 100% payment of bills from customers for 10 years in succession SEB restructuring announced by Gol and tariff revision by majority SEB's during 2012–2013
Land Acquisition Uncertainty	 Progressive R&R Policy, focus on consultation and participation, negotiated settlement Institutional mechanisms like Village Development Advisory Committees and Public Information Centers Project head in place at site well in advance to expedite land acquisition Appointed Chief Forest Officer for expeditious forest clearance Land acquisition cell created at corporate centre to support the activities at site
Accelerated Capacity Addition	 Multi-pronged strategy developed and enhanced delegation of power for quick decision making Bulk Tendering of 11,540 MW already awarded and are under construction
Consistent RoE	 Capex intensive model delivering consistent earnings and dividends Upsides from PAF and PLF incentives Supplementary agreements signed for first charge over state utilities' receivables after 2016
Competition from Private Players	 Relatively robust business model with regulated returns Gol ownership Strong management expertise and high standards of corporate governance
Funding Requirements for New Projects	 Strong balance sheet and healthy leverage ratios Easy access to domestic and overseas debt market; mobilized debt on most optimal rates from both domestic and international markets due to low gearing and healthy coverage ratios 12th Plan outlay finalized at Rs.1,52,341 crore to be funded by debt equivalent of Rs.1,01,406 crore . Debt o Rs. 11,133 crore already deployed during FY13, Debt of Rs.17,074 Crore already tied up and yet to be drawn as on 31.03.13
Environmental Laws and Regulations	 ✓ Excellent track record ✓ Environmental clearances for all under construction projects received ✓ Strong focus on sustainability and fuel diversification- 10 MW solar plants commercialised, 85 MW under construction

GROWTH AND CAPEX PLANS

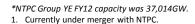


GROWTH VISIBILITY

NTPC takes the decision to proceed with a new project only once it is satisfied on the availability of land, water, fuel, off-take arrangements and environmental clearances.



ITPC's Projects Under Construction						MoEF Clearance		
•		Capacity	Expected			Environmental		
Projects	Fuel	(MW)	Commissioning	Technology	Land	Clearance	Forest Clearance	NTPC/JV
Koldam	Hydro	800	FY15	-	Yes	Yes	Yes	NTPC
Barh I	Coal	1,980	FY16, FY17	Super-Critical	Yes	Yes	Yes	NTPC
Tapovan Vishnugad	Hydro	520	FY16	_	Yes	Yes	Yes	NTPC
Bongaigaon	Coal	750	FY15, FY16	Sub-Critical	Yes	Yes	Yes	NTPC
Barh II	Coal	1,320	FY14, FY15	Super-Critical	Yes	Yes	Yes	NTPC
Rihand III	Coal	500	FY14	Sub-Critical	Yes	Yes	Yes	NTPC
Singrauli Hydro	Hydro	8	FY15	_	Yes	Yes	Yes	NTPC
Solapur	Coal	1,320	FY17+	Super-Critical	Yes	Yes	Yes	NTPC
Mouda II	Coal	1,320	FY17+	Super-Critical	Yes	Yes	Yes	NTPC
Vindhyachal V	Coal	500	FY16	Sub-Critical	Yes	Yes	Yes	NTPC
Kudgi	Coal	2,400	FY16,FY17, FY17+	Super-Critical	Yes	Yes	Yes	NTPC
Unchahar Solar	Solar PV	10	FY14	_	Yes	Yes	Yes	NTPC
Ramagundam Solar	Solar PV	10	FY14	_	Yes	Yes	Yes	NTPC
Talcher Solar	Solar PV	10	FY14	_	Yes	Yes	Yes	NTPC
Faridabad Solar	Solar PV	5	FY14	_	Yes	Yes	Yes	NTPC
Rajgarh Solar	Solar PV	50	FY14	_	Yes	Yes	Yes	NTPC
Lara	Coal	1,600	FY17+	Super-Critical	Yes	Yes	Yes	NTPC
Gadarwara	Coal	1,600	FY17+	Super-Critical	Yes	Yes	Yes	NTPC
Lata Tapovan	Hydro	171	FY17+	_	Yes	Yes	Yes	Sub (NHL) ¹
Vallur	Coal	500	FY14	Sub-Critical	Yes	Yes	Yes	JV
Nabinagar (BRBCL)	Coal	1,000	FY15,FY16	Sub-Critical	Yes	Yes	Yes	Sub
Nabinagar (JV with BSEB)	Coal	1,980	FY17+	Super-Critical	Yes	Yes	Yes	JV
Kanti	Coal	390	FY 14,FY15	Sub-Critical	Yes	Yes	Yes	Sub
Meja	Coal	1,320	FY17+	Super-Critical	Yes	Yes	Yes	JV
Total		20,064						

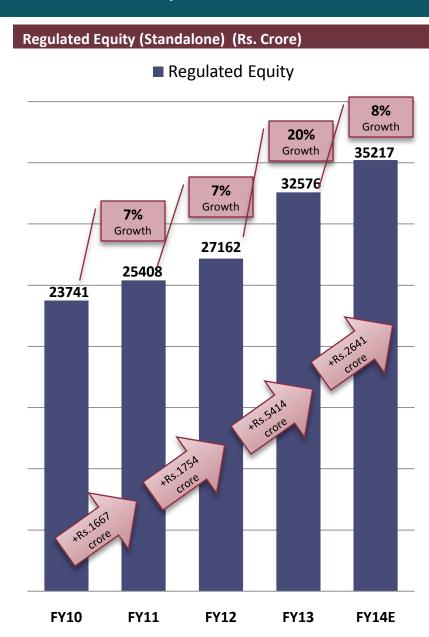


CAPACITY ADDITION SCHEDULED IN 12TH PLAN

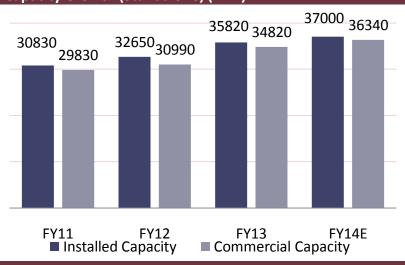
Year Project M* FY13 Sipat 66 Indira Gandhi STPP JV 50 Mouda – I, Unit - 1 50 Vindhyachal – Unit 11 50 Rihand – III 50 Vindhyachal – Unit 12 Units Commissioned 55 Mouda – I, Unit - 2 50 Vallur – I JV 50 Solar PV (A&N, Dadri) 3 Total FY 13 4,11 FY14 Rihand – III 66 Barh-II 66 Solar PVs 3 Kanti- Subsidiary 15 Vallur – I JV 50 Total FY 14 1,875 FY15 Bongaigaon 25 Barh-II 66
Indira Gandhi STPP JV
Vindhyachal – Unit 11 56 Rihand – III 56 Vindhyachal – Unit 12 Units Commissioned 56 Mouda – I, Unit- 2 56 Vallur – I JV 56 Solar PV (A&N, Dadri) 4,17 FY14 Rihand – III 66 Barh-II 66 Solar PVs 2 Kanti- Subsidiary 15 Vallur – I JV 56 Total FY 14 1,875 FY15 Bongaigaon 25
Rihand - III
Rihand - III
Mouda = I, Unit- 2 Vallur = I JV Solar PV (A&N, Dadri) Total FY 13 FY14 Rihand = III Barh-II Solar PVs Kanti- Subsidiary Vallur = I JV Total FY 14 FY15 Bongaigaon 50 50 50 FY15 Bongaigaon 50 50 50 FY15 Solar PVs
Vallur – I JV 56 Solar PV (A&N, Dadri) 1 Total FY 13 4,17 FY14 Rihand – III 50 Barh-II 66 Solar PVs 2 Kanti- Subsidiary 19 Vallur – I JV 50 Total FY 14 1,875 FY15 Bongaigaon
Solar PV (A&N, Dadri) 1 Total FY 13 4,17 FY14 Rihand – III 50 Barh-II 60 Solar PVs 2 Kanti- Subsidiary 15 Vallur – I JV 50 Total FY 14 1,875 FY15 Bongaigaon
Total FY 13 4,17 FY14 Rihand – III 50 Barh-II 66 Solar PVs 2 Kanti- Subsidiary 19 Vallur – I JV 50 Total FY 14 1,875 FY15 Bongaigaon
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Barh-II 66 Solar PVs 2 Kanti- Subsidiary 19 Vallur – I JV 50 Total FY 14 FY15 Bongaigaon
Solar PVs 2 Kanti- Subsidiary 19 Vallur – I JV 50 Total FY 14 FY15 Bongaigaon
Kanti- Subsidiary 15 Vallur – I JV 50 Total FY 14 FY15 Bongaigaon
Vallur – I JV 50 Total FY 14 1,875 FY15 Bongaigaon 25
Total FY 14 FY15 Bongaigaon 25
FY15 Bongaigaon 25
Barh-II 66
•
Koldam-Hydro
Singrauli Hydro
Nabinagar JV 50
Kanti - Subsidiary
Total FY 15 241
FY16 Barh-I 66
Vindhyachal – V 50
Tapovan Hydro 52
Kudgi 80
Bongaigaon 50
Nabinagar JV 50
Total FY 16 3,48
FY17 Barh-I 132
Kudgi 80
Total FY 17 212
Total (FY12-17) 14,05

^{*} In addition 65 MW Solar PV likely to be commissioned shortly

REGULATED EQUITY GROWTH



Capacity Growth (Standalone) (MW)



Commercial Capacity Target

Commercial Capacity (Standalone)	Capacity (MW)
As on 31.03.13	34,820
CoD target for FY 14E	
Mouda	500
Vindhyachal	500
Rihand	500
Solar	20
Total	1,520
Total Commercial Capacity FY14E	36,340

Full impact of Regulated Equity added in FY 2013 will translate into earnings in 2013-14

SUSTAINABILITY INITIATIVES



SUSTAINABILITY INITIATIVES

Renewable and Nuclear Energy—Reducing Carbon Footprints

Own Basket

In Partnership

JNNSM

- ✓ Basket of 1,000MW

 of renewable

 energy sources

 under

 development

 ✓
- ✓ 300MW being targeted for completion by 2017
- ✓ Of this 105 MW solar capacity by 2017
- ✓ 5MW each at A&N islands and Dadri is under commercial operation, 85 MW at Unchahar (10MW), Ramagundam (10MW), Talcher (10MW), and Faridabad (5MW) &

Rajgarh (50MW)

under construction

- Pan-Asian
 Renewable
 Private Limited,
 JVC to initially
 develop
 renewable
 energy projects
 of about 500MW
- "Anushakti"
 formed with 51%
 stake of
 NPCIL¹ and 49%
 stake of NTPC for
 developing
 nuclear power
 projects
- NVVN² a nodal agency for JNNSM³ implementing 1,050 MW of solar capacity
- Contractsawarded for1,028 MW
- ✓ 528 MW has already been commissioned -478MW of solar PV and 50MW Solar thermal
- Traded 1590 MU of bundled solar power in FY13 and sold 1011 MU of bundled solar power in Q1FY14

Environmental Initiatives—More Than 34 Million Tons of CO₂ has been Avoided in NTPC

Technology Choices

Monitoring Systems

Energy Conservation

Sustainability Report

- Advanced and high efficiency technologies
- NTPC's 1st
 Super-`Critical
 unit of
 660MW is
 declared on
 commercial
 operation at
 Sipat-I Power
- Project

 1980 MW
 super critical
 capacity
 ('SCC') already
 under
 commercial
 operation
- 15,640MW SCC under construction
- Reducing reliance on fossil fuels

- CO₂ measuremen t systems being installed at all NTPC stations in the chimney stacks
- 67 Ambient Air Quality Monitoring System (AAQMS) installed in NTPC stations
- Online
 energy
 management
 system at
 15 stations
 to reduce
 auxiliary
 power
 consumption
- Energy Audits
- A Sustainability Report for the year 2011-12 based on GRI indicators have been prepared and is available on Company's website



2.15 Million Tons CO₂ Avoided in 2012-13

Created green wealth of ~19 million trees at and around stations

- 1. Nuclear Power Corporation of India.
- 2. NTPC Vidyut Vyapar Nigam.
- 3. Jawaharlal Nehru National Solar Mission.

Technology Progression—Increased Efficiency and Greater Environmental Protection

Leader in introducing new technologies in the power sector.

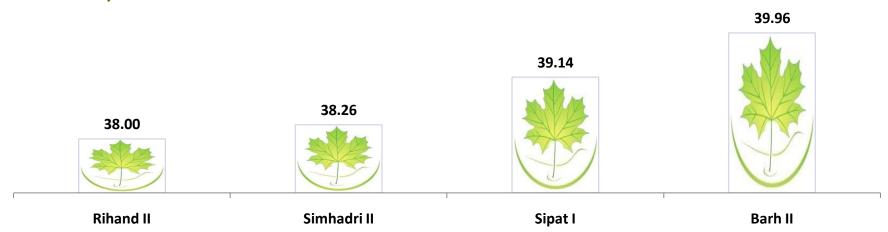
Technologies Introduced

- ✓ Adoption of super critical parameters for higher efficiency
- ✓ Higher size units of 660 and 800MW
- ✓ Adoption of high reheat parameters for smaller units
- ✓ 765KV AC switchyard
- State of art automation technologies for C&I and Electrical systems
- ✓ Tunnel Boring machines
- ✓ Flue gas desulphurisation
- High concentration slurry disposal system & Dry Ash extraction and disposal system

Technologies Under Development

- Development of IGCC suitable for Indian coal
- ✓ Development of Adv Ultra supercritical power plant along with IGCAR and BHEL for inlet steam temperature in the range of 700°C.
- Use of advanced technologies in the renovation and modernization of aging power stations

Gross Efficiency HHV%



R&D-NETRA

Committed to invest up to 1% of distributable profit for R&D Activities and Climate Change Technologies.

Efficiency Improvement and Cost Climate change Renewable energy Reduction ✓ Waste heat recovery from flue gas Pressure Swing Adsorption based CO₂ ✓ 40 TR Solar Thermal Air capture technology **Conditioning System** Aqua Ammonia cycle for low grade heat utilization ✓ Micro Algae based CO₂ fixation ✓ 15MW Solar Thermal Hybrid Plant Artificial Intelligence based Plant Advisory ✓ Study of CO₂ capture & storage technology ✓ Integrated biodiesel plant to produce (With IIT Guwahati & With Electricity and biodiesel ✓ CFD based flue gas duct modification IIT Kharagpur) ✓ Municipal Solid Waste to fuel system ✓ Online chemical monitoring & advisory ✓ CO₂ capture thru Fly Ash Mineralization MoU with DLR, Germany and Ammonia based Flue Gas Conditioning ISE-Fraunhofer for setup of Solar Thermal and Photovoltaic Lab

- ✓ Infrastructure: 18 number of Labs in place, 2 more in offing
- ✓ Manpower: 102 Executives including 16 PhD's and 29 M.Tech's
- ✓ Networking: R&D Collaboration with 12 national and 2 international institutions
- ✓ IPR: 21 Patent Applications Filed, one patent granted, several more in pipeline
- ✓ Membership: NETRA is a member of (1) IEA GHG R&D Program, France; (2) CSLF France (3) IERE Japan (4) GCCSI Australia

NETRA: NTPC Energy Technology Research Alliance.

EXTENSIVE ENGAGEMENT WITH SOCIETY

NTPC has committed to contribute 1% of Net Profit towards Sustainable Development from FY 2013-14 onwards

Social Inclusiveness

- Land acquisition through a participatory process
- Progressive R&R and CSR policies
- Compensation and R&R entitlement finalized through a consultative and participatory process with the stakeholders
- Efforts for negotiated settlements
- Focus on capacity building
- Intensive community and peripheral development

Stakeholder Engagement

- Information sharing through Public Information Centers ('PIC')
- Multi Stakeholder Engagement mechanisms like Village Development Advisory Committees
- Socio Economic Surveys / Audits / Evaluation through independent agency / academic institute of repute
- ✓ Grievance redressal mechanisms
- Effective institutional set up

Skill Creation

- ✓ Adopted 17 ITIs and creating 9 new ITIs
- Sponsored around 750 youth from villages in the vicinity of NTPC units for ITI training
- Setting up Solapur Power Training Institute in Maharashtra to provide skill development for power generation and transmission
- 1st batch to roll out by end of 2013
- Information and Communication Technology (ICT) Centre for physically and visually challenged students set up at Delhi University, Guwahati University and Devi Ahilya Vishwa Vidhyalaya at Indore by NTPC Foundation
- ✓ Udaan initiative- Training 1000 J&K youths in thermal power plant engineering

Preserving Heritage

Conservation of selected National Monuments in association with ASI

Support Initiatives Like Access to Healthcare, Gender Justice, Community Welfare...













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THANK YOU

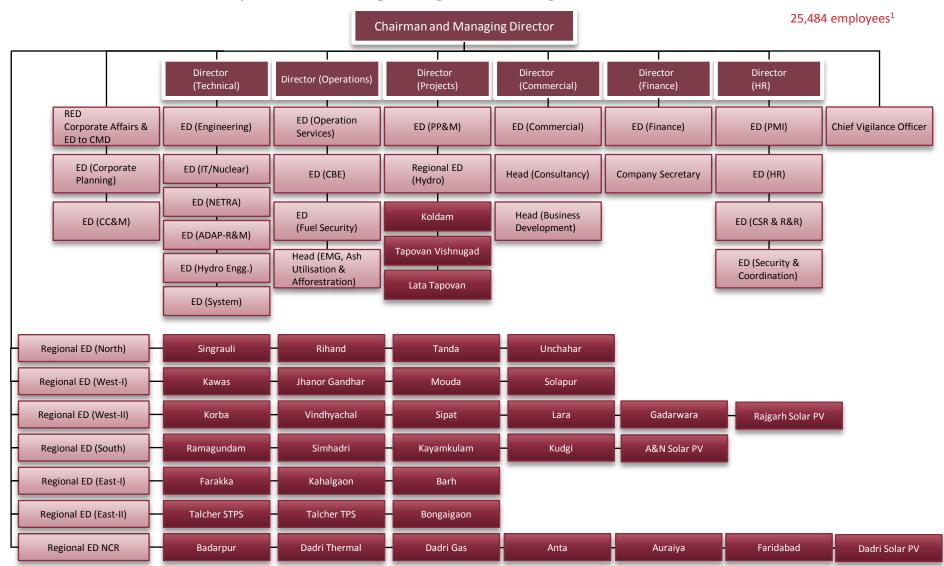


Q & A



ORGANIZATIONAL DEPTH AND AN EXPERIENCED TEAM

NTPC has the Platform and Experience to Manage a Large and Growing Portfolio



^{1.} As of March 31, 2013. including JVs and Subsidiaries of NTPC. 23,865 in NTPC and 1,619 NTPC employees in subs and JVs.