COMPANY REPORT EQUITIES RESEARCH

NTPC IN

INDEPENDENT POWER PRODUCERS



INR204.00 TARGET PRIOR TP INR204 00 CLOSE INR163.95 +24.4% UP/DOWNSIDE

HOW WE DIFFER FROM THE STREET



INDUSTRY OUTLOOK ****

Opportunity to accumulate



CHANGE

Weak 2QFY12E generation due to disruptions

NTPC's 2QFY12 power generation was below our expectation by 7.5% due to unforeseen disruptions in operations at its Ramagundam and Korba plants. We trim our FY12 EPS estimates slightly to account for the disruption, and we believe that any weakness in the stock price is an opportunity to buy NTPC.



CATALYST

Resumption of operations and capacity adds to drive upside

Barring near-term issues, which we expect to be out of the way soon, we continue to like NTPC as we believe it is best positioned in terms of fuel security at times of coal shortage, is a defensive with a strong balance sheet and earnings visibility, and is due to add capacity of 3.6GW in FY12. NTPC is also protected from discom defaults by sovereign guarantees.



VALUATION

Trading at trough valuations

Our DCF-based TP of INR204 is based on a WACC of 11.4% (unchanged) and a terminal growth rate of 3% (unchanged). NTPC trades at 1.7x FY13E P/BV - one standard deviation below its seven-year median NTM P/BV. Key risks to our TP are delays in completion of new power plants and lower power plant availability due to fuel shortages or forced outages.



KEY CHART

2QFY12 power generation (standalone)

	2Q1	2	2Q1	1	Generation
	Capacity	Gen	Capacity	Gen	Growth
	(MW)	(MU)	(MW)	(MU)	(y-y %)
Coal	27,545	45,525	25,385	46,134	(1.3)
Gas/Naphtha	4,017	5,399	4,017	6,030	(10.5)
Total	31,562	50,923	29,402	52,164	(2.4)

Sources: NTPC: BNP Paribas

KEY STOCK DATA

YE Mar (INR m)	2012E	2013E	2014E
Revenue	624,604	715,861	854,326
Rec. net profit	91,152	104,669	113,807
Recurring EPS (INR)	11.05	12.69	13.80
Chg. In EPS est. (%)	(1.9)	(0.3)	(1.1)
EPS growth (%)	13.5	14.8	8.7
Recurring P/E (x)	14.8	12.9	11.9
Dividend yield (%)	2.2	2.3	2.5
EV/EBITDA (x)	10.8	9.3	8.3
Price/book (x)	1.8	1.7	1.5
Net debt/Equity (%)	42.2	48.0	52.1
ROE (%)	12.8	13.5	13.5



Share price perjormance	I MOIILII	2 MOULTI	LZ MOIILII				
Absolute (%)	(1.5)	(11.1)	(24.8)				
Relative to country (%)	3.7	5.1	(0.4)				
Next results		Octo	ber 2011				
Mkt cap (USD m) 27,5							
3m avg daily turnover (USD	m)		9.8				
Free float (%)							
Major shareholder Government of India (85							
12m high/low (INR)		217.9	5/162.05				
3m historic vol. (%)		26.0					
ADR ticker							
ADR closing price (USD; Dat	e)		-				
Issued shares (m)							

Sources: Bloomberg consensus; BNP Paribas estimates



Girish Nair girish.nair@asia.bnpparibas.com +91 22 33704380

BNP Paribas Securities Asia research is available on Thomson One, Bloomberg, TheMarkets.com, Factset and on http://eqresearch.bnpparibas.com/index. Please contact your salesperson for authorisation. Please see the important notice on the back page.



BNP PARIBAS | The bank for a changing world



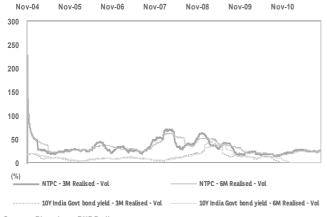
🗱 Key Earnings Drivers & Sensitivity

■ A 5% reduction in overall utilization rate reduces our FY12 EPS estimates by 4%

	Base		В	est	Worse		
	FY12E	FY13E	FY12E	FY13E	FY12E	FY13E	
Utilization (%)	80	80	85.4	86.1	75.7	76.4	
EPS	11.05	12.69	11.72	13.25	10.59	11.96	
Change (%)			6.0	4.4	(4.2)	(2.0)	

Source: BNP Paribas Estimates

NTPC and 10Y India Govt bond yield (3M and 6M Realised-Vol)



Sources: Bloomberg; BNP Paribas

India sector correlation matrix at 25 July 2011

						10Y India Govt	bond yield
-12.	00%	-7.00%	-2.00%	3.00%	8.00%	13.00%	18.00%
20.00%							
15.00%				*			
10.00%	•						
5.00%		. •	. 1		•		
0.00%		•	28		•		
-5.00%						*	-
-10.00%			* ***	*			
-15.00%			•	*			
NTPC							

Regression - NTPC to 10Y India Govt bond yield

NTPC = 187 + -0.1603 * GIND10YR INDEX
R Square = 0.0186
Regression based on 261 observations of 5 years weekly data. Please refer to Appendix 1 for

Regression based on zer observations of 5 years weekly data. Please refer to Appendix 1 to the explanation of R-square Sources: Bloomberg; BNP Paribas

	Autos	Banks	Engineering & Construction	Metals & Mining	Oil & Gas	IT Services	Telecom	Utilities	Property
Autos	1.00	0.67	0.64	0.66	0.50	0.43	0.36	0.58	0.62
Banks		1.00	0.71	0.70	0.58	0.46	0.36	0.63	0.66
Engineering & Construction			1.00	0.71	0.58	0.46	0.41	0.65	0.68
Metals & Mining				1.00	0.66	0.50	0.40	0.69	0.72
Oil & Gas					1.00	0.40	0.30	0.57	0.57
IT Services						1.00	0.27	0.45	0.38
Telecom							1.00	0.43	0.43
Utilities								1.00	0.63
Property									1.00

Source: BNPP Paribas Sector Strategy

The Risk Experts

- Our starting point for this page is a recognition of the macro factors that can have a significant impact on stock-price performance, sometimes independently of bottom-up factors.
- With our Risk Expert page, we identify the key macro risks that can impact stock performance.
- This analysis enhances the fundamental work laid out in the rest of this report, giving investors yet another resource to use in their decision-making process

Long/Short Chart



Sources: Bloomberg, BNPP Paribas

Overview of power generation in 2QFY12

NTPC's 2QFY12 power generation from its standalone operation was lower than our estimate by 7.5% and was down 2.4% y-y despite 7.3% y-y growth in installed capacity.

Coal-fired generation was below our estimate by 8.5% and down 1.3% y-y.

2Q is a weak quarter seasonally, as demand is lower and hydro power supplies pick up. NTPC undertakes annual maintenance shutdowns during 2Q of every fiscal year. However, generation in 2QFY12 was particularly hit by unforeseen factors. The company's 2,600MW Korba power plant had to halt production on ash disposal issues while its 2,600MW Ramagundam power plant faced coal shortages because of a strike at its supplier – Singareni Collieries Ltd (SCCL; Not listed).

Gas/naphtha-based generation was above our expectation by 2.4% and down 10.5% y-y. In line with our expectations, the utilisation rate for gas/naphtha-fired power plants in 2QFY12 was at 61%, down from 68% in 2QFY11.

EXHIBIT 1: NTPC Q2FY12 generation

	2Q11		2Q12		
	Capacity	Gen	Capacity	Gen	Growth
	(MW)	(MU)	(MW)	(MU)	(y-y %)
BADARPUR	705	981	705	1,209	23.2
DADRI (NCTPP)	1,820	2,798	1,820	3,381	20.8
FARAKKA STPS	1,600	2,812	2,100	2,349	(16.5)
KAHALGAON	2,340	3,155	2,340	2,967	(5.9)
KORBA STPS	2,100	4,577	2,600	4,483	(2.1)
RAMAGUNDEM STPS	2,600	5,082	2,600	5,326	4.8
RIHAND	2,000	3,876	2,000	3,709	(4.3)
SIMHADRI	1,000	1,867	1,500	2,378	27.4
SINGRAULI STPS	2,000	3,806	2,000	3,608	(5.2)
SIPAT STPS Stage II	1,000	2,206	1,660	2,569	16.4
TALCHER	470	888	470	830	(6.6)
TALCHER STPS	3,000	4,830	3,000	4,471	(7.4)
TANDA	440	851	440	683	(19.7)
UNCHAHAR	1,050	2,054	1,050	1,989	(3.2)
VINDHYACHAL STP	3,260	6,350	3,260	5,573	(12.2)
Coal Total	25,385	46,134	27,545	45,525	(1.3)
ANTA	419	675	419	688	2.0
AURAIYA	663	1,010	663	1,014	0.4
DADRI	830	1,183	830	1,207	2.0
FARIDABAD	432	808	432	748	(7.4)
GANDHAR	657	1,077	657	862	(20.0)
KAWAS	656	935	656	874	(6.5)
KAYAM KULAM	360	342	360	7	(97.9)
Gas/Naphtha Total	4,017	6,030	4,017	5,399	(10.5)
Total - Standalone	29,402	52,164	31,562	50,923	(2.4)

Source: CEA

Korba production curtailed due to fly ash disposal issues

Production at NTPC's 2,600MW Korba power plant in Chattisgarh was affected as the company did not have an alternative site for ash disposal after the project's ash pond was damaged, leading to leakage of fly ash that contaminated the nearby fields. (Fly ash is a hazardous waste powder produced when coal is burnt to generate power.)

Power generation at Korba fell 2.1% y-y despite installed capacity going up from 2,100MW to 2,600MW. Capacity utilization, which was 101% in 2QFY11, fell to 80% in 2QFY12.

NTPC's earlier plans to put up a new ash disposal site for Korba were stuck due to difficulties in acquiring land. The company is repairing the ash pond and has made temporary arrangements for disposing ash at an alternative site. The company expects to resume normal operations at Korba by the end of this month. NTPC believes that clean-up costs will not be material and that it can make up for the loss in availability through the rest of the year. Note that, as per tariff regulation, NTPC can recover its fixed costs as well as 15.5% ROE only if the availability of its plants is at least 85% during a year. In case annual availability is below 85%, NTPC recovers less than the regulated ROE of 15.5%.

Ramagundam coal supplies hit by strike at SCCL

Production at NTPC's 2,600MW Ramagundam plant has been hit on account of a strike at Singareni Collieries (SCCL), from where the plant sources its entire coal requirement under a Fuel Supply Agreement. Ramagundam's utilisation rates, which were in excess of 95% in July and August, fell to 83% in September 2011. Workers at SCCL are on strike since 13 September 2011 in support of a demand for a separate state of Telengana carved out of certain areas of the state of Andhra Pradesh. We have no indication as to when the strike would be called off.

SCCL could possibly declare a *force majeure* under its Fuel Supply Agreement with NTPC to avoid paying a penalty for failure to supply coal.

NTPC has to maintain an annual availability of 85% for each of its power plants under its Power Purchase Agreement (PPA), and any failure to do so leads to under-recovery of its regulated ROE. NTPC's management has indicated that it cannot declare *force majeure* under the PPA with its customers in case of coal supply disruptions to its power projects arising from strikes at SCCL. NTPC has to source coal from alternative sources and meet its availability targets. When the strike is called off, NTPC may be able to make up for the supply disruptions by declaring higher availability during 3Q and 4QFY12, and thus avoid paying a penalty for failing to meet its annual availability target of 85%. Ramagundam plant's availability was well above the mandated 85% until September and this would help it avoid paying penalties at the end of FY12.

Lower utilisation rate at gas plant not an issue

The decline in NTPC's gas/naphtha-based generation is due to lower demand for expensive Liquefied Natural Gas (LNG)-based power in the face of dwindling supplies of cheap domestic gas supplies. Management has indicated that the availability of gas-based generation is above the mandated availability and therefore it is recovering its regulated ROE and fixed charge, as well as earning an incentive, even though the customer is not taking the power. Thus, lower utilisation of its gas-based power generation does not impact NTPC's profitability. However, revenue declines as fuel costs, which are pass-through, go down due to lower power generation. Also NTPC loses the opportunity to earn some efficiency related gains. NTPC's gas-fired power plants operated at 69.8% utilisation in 1QFY12 but their availability was 90% in 1QFY12.

NTPC best positioned in terms of fuel

Barring near-term issues arising out of uncontrollable factors, we reiterate that NTPC is one of the best positioned in the sector in terms of fuel security.

NTPC has fuel supply agreements (FSA) with Coal India (CIL, COAL IN, Not rated) and SCCL for supply of 125m tonnes of coal. As per the FSA, CIL/SCCL will have to pay a penalty if coal supplies fall below 90% of the agreed 125m tonnes.

In addition, in May 2011 the government allocated an additional 13m tonnes of coal to NTPC's new projects completed in FY10 and FY11. In times of coal shortage, the government tends to prioritize supply of cheap domestic coal supplies to NTPC's fixed-return plants over merchant power plants as this leads to lower power prices for the buyers, i.e the cash-strapped power distribution companies.

Thus, out of its total requirement of 160m tonnes of domestic coal, NTPC will procure 138m tonnes from CIL and SCCL. It plans to source about 2m tonnes from e-auctions. The remaining 20m tonne shortfall is to be bridged by importing 14m tonnes of high grade coal. NTPC already has contracts in place to import 12m tonnes of coal.

Recall that the Ministry of Coal has taken back five coal blocks allocated to NTPC, citing poor progress in execution. Management indicated that NTPC received a letter from the Ministry of Coal, asking it to provide the status of progress on new power projects that were linked to the captive coal blocks that were deallocated. Based on the progress NTPC has made on these projects, it is confident of getting back the deallocated blocks.

Recall also that NTPC recently placed orders for 9x800MW Boiler Turbine Generator (BTG) units for its upcoming power projects at Lara (1,600MW), Darlipali (1,600MW), Gajmara (2x800MW) and Kudgi

(3x800MW). Management has indicated that the government is likely to allocate NTPC five additional coal blocks to ensure fuel security for these projects.

Changes in estimates

Our sales estimates are down 5.4% for FY12 and 5.3% for FY13, as we assume lower utilisation for NTPC's coal-fired power plants. We have reduced our assumptions for volume of power sold by 5.9% for FY12 and 6.2% for FY13.

Our EPS estimates go down only slightly by 1.9% for FY12 and 0.4% for FY13 as part of the decline in operational profits is offset by higher other income due to higher interest that NTPC earns on cash in the current high interest scenario. Other income accounts for 20% of our estimated FY12 profit before tax.

EXHIBIT 2: Changes in estimates

		2012E			2013E	
	New	Previous	Change	New	Previous	Change
	(INR m)	(INR m)	(%)	(INR m)	(INR m)	(%)
Power sold (b kwh)	216	229	(5.85)	233	248	(6.23)
Average tariffs (INR/kwh)	2.90	2.89	0.24	3.08	3.05	0.93
Adjusted Sales	624,604	659,934	(5.35)	715,861	755,579	(5.26)
Fuel costs	400,564	427,801	(6.37)	454,115	487,608	(6.87)
Operating expenses	68,417	71,154	(3.85)	77,203	81,969	(5.81)
Adjusted EBITDA	155,622	160,980	(3.33)	184,543	186,002	(0.78)
Depreciation	33,748	34,098	(1.03)	39,143	39,493	(0.89)
Adjusted EBIT	121,874	126,882	(3.95)	145,401	146,509	(0.76)
Interest expense	29,460	29,633	(0.58)	32,949	33,470	(1.56)
Other income	22,757	19,577	16.24	19,792	19,618	0.89
Pre-tax profit - recurring	115,171	116,825	(1.42)	132,244	132,657	(0.31)
Total tax	23,929	23,846	0.35	27,474	27,534	(0.22)
Effective tax rate (%)	21	20	1.79	21	21	0.09
Minority interest	89.97	-		100.71	-	
PAT - recurring	91,152	92,887	(1.87)	104,669	105,028	(0.34)
Recurring EPS (INR)	11.05	11.27	(1.87)	12.69	12.74	(0.34)
ROE (%)	12.8	13.0		13.5	13.6	

Source: BNP Paribas estimates

Valuation and TP

We value NTPC using DCF. We continue to assume a WACC of 11.4% based on a cost of equity of 13.1%, cost of debt of 8%, tax rate of 30% and a debt-equity ratio of 31%. We retain our terminal growth rate assumption of 3%. Key risks to our TP are delays in completion of new power plants, and lower availability of power plants because of fuel shortages or forced outages.

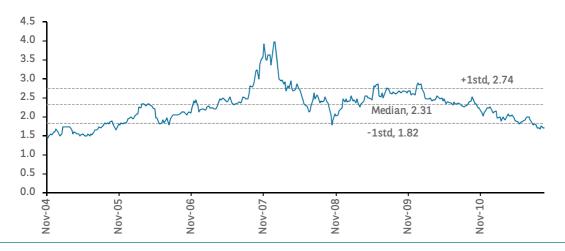
NTPC currently trades at 1.7x FY13E P/BV, which is at a historical low. We believe that any weakness in the share price on account of lower-than-expected power generation in 2QFY12 will be an opportunity to accumulate the stock.

EXHIBIT 3: Relative valuation

	Ticker	Price	Мсар	EV-EE	BITDA	2-Yr EBITDA	PI		PE	3	RC)E
Company				FY12E	FY13E	Growth	FY12E	FY13E	FY12E	FY13E	FY12E	FY13E
		(LC)	(USD m)	(x)	(x)	(%)	(x)	(x)	(x)	(x)	(%)	(%)
NTPC^	NTPC IN	163.95	27,364	10.6	9.1	16.9	15.0	13.3	1.8	1.7	12.3	12.3
NHPC^	NHPC IN	23.35	5,814	10.5	8.8	15.7	14.8	11.8	1.0	1.0	7.2	8.5
Power Grid^	PWGR IN	95.85	8,982	10.1	8.4	18.7	15.4	12.9	1.9	1.7	12.9	14.0
Tata Power	TPWR IN	96.75	4,647	8.1	6.8	8.8	7.9	7.7	1.0	0.9	13.9	14.0
Reliance Power^	RPWR IN	78.25	4,443	63.8	18.7	141.9	31.1	22.5	1.2	1.2	4.0	5.3
Adani Power^	Adani IN	81.5	3,596	13.1	10.7	80.1	12.7	31.8	2.3	2.1	19.9	7.0
JSW Energy	JSW IN	50.9	1,690	7.4	6.2	9.1	9.3	9.0	1.3	1.1	13.6	12.9
Jindal Steel & Power	JSP IN	456.85	8,642	7.5	6.4	8.7	9.9	8.6	2.4	1.9	24.2	24.8
CESC	CESC IN	269.75	682	7.1	5.3	16.0	9.6	6.5	0.6	0.6	9.9	9.0
Lanco Infratech	LANCI IN	15.1	736	6.0	4.4	16.4	6.3	4.6	0.7	0.6	15.7	15.9
India Power Utilities Median (ex NTPC)				8.1	6.8	16.0	9.9	9.0	1.2	1.1	13.6	12.9
Southern Co	SO US	USD 42.01	36,030	9.7	9.1	3.5	16.5	15.6	2.0	1.9	12.5	12.5
Nextera Energy	NEE US	USD 52.87	22,329	8.7	7.9	4.5	11.9	11.3	1.4	1.3	12.2	12.2
Duke Energy Corp	DUK US	USD 19.71	26,250	8.5	8.2	1.9	14.2	14.0	1.1	1.1	8.0	8.1
Dominion Resources Inc	D US	USD 49.84	28,369	9.9	9.3	2.9	15.8	15.3	2.4	2.2	14.8	15.3
FirstEnergy Corp	FE US	USD 43.61	18,238	8.4	7.8	3.7	13.1	13.1	1.4	1.3	10.0	9.9
China Resources Power	836 HK	USD 11.40	6,940	9.6	7.9	10.3	10.0	8.5	1.1	1.0	12.8	13.9
SDIC Huajing power	600886 CH	USD 6.02	1,887	16.5	14.7	6.3	24.7	21.3	1.3	1.2	5.6	7.6
Datang International	991 HK	USD 1.83	779	14.2	12.1	8.0	10.9	8.8	0.6	0.6	7.2	7.6
Global Power Utilities - Median (ex NTPC))			9.7	8.6	4.1	13.7	13.5	1.3	1.3	11.1	11.1
Overall Median (ex NTPC)				8.9	7.7	10.1	11.8	11.3	1.3	1.2	12.3	12.0

Note: Year ending March for India. For China and North America estimates are for immediate previous year ending December. Sources: Bloomberg consensus estimates, ^ BNP Paribas estimates

EXHIBIT 4: Historical NTM P/B chart



Sources: Bloomberg, BNP Paribas estimates

Financial statements NTPC

	2014E	2013E	2012E	2011A	2010A	Profit and Loss (INRm)Year Ending Mar
Assuming capacity add	854,326	715,861	624,604	565,316	483,596	Revenue
of 3,570MW in F	(550,036)	(454,115)	(400,564)	(364,144)	(301,888)	ost of sales ex depreciation
	304,290	261,746	224,039	201,173	181,708	ross profit ex depreciation
	0	0	0	0	0	ther operating income
	(89,435)	(77,203)	(68,417)	(66,245)	(50,526)	perating costs
	214,855	184,543	155,622	134,928	131,182	perating EBITDA
	(46,205)	(39,143)	(33,748)	(29,993)	(28,944)	Depreciation
	0	0	0	0	0	Goodwill amortisation
	168,650	145,401	121,874	104,935	102,238	perating EBIT
	(25,015)	(13,157)	(6,703)	2,145	7,821	Net financing costs
	(25,015)	(13,137)	0	0	0	ssociates
	0	0	0	0	0	Recurring non operating income
	0	0	0	13,195	4,247	lon recurring items
	143,634	132,244	115,171	120,275	114,306	rofit before tax
Assuming that NTPO	(29,074)	(27,474)	(23,929)	(26,793)	(25,929)	āx
pay taxes at the MAT	114,560	104,770	91,242	93,482	88,377	Profit after tax
of	(754)	(101)	(90)	52	0	Minority interests
	0	0	0	0	0	referred dividends
	0	0	0	0	0	Other items
	113,807	104,669	91,152	93,534	88,377	eported net profit
	0	0	0	(13,195)	(4,247)	Ion recurring items & goodwill (net)
	113,807	104,669	91,152	80,339	84,130	ecurring net profit
						er share (INR)
	13.80	12.69	11.05	9.74	10.20	ecurring EPS *
	13.80	12.69	11.05	11.34	10.72	reported EPS
	4.09	3.84	3.65	3.82	3.81	PS
						rowth
	19.3	14.6	10.5	16.9	18.1	evenue (%)
	16.4	18.6	15.3	2.9	46.7	perating EBITDA (%)
	16.0	19.3	16.1	2.6	58.5	perating EBIT (%)
	8.7	14.8	13.5	(4.5)	13.5	ecurring EPS (%)
	8.7	14.8	(2.5)	5.8	9.2	reported EPS (%)
						perating performance
	30.2	31.1	30.5	30.3	31.6	Gross margin inc depreciation (%)
	25.1	25.8	24.9	23.9	27.1	perating EBITDA margin (%)
	19.7	20.3	19.5	18.6	21.1	perating EBIT margin (%)
	13.3	14.6	14.6	14.2	17.4	let margin (%)
	20.2	20.8	20.8	22.3	22.7	ffective tax rate (%)
	29.6	30.2	33.0	39.2	37.3	ividend payout on recurring profit (%)
	6.7	11.1	18.2	-	-	nterest cover (x)
	34.1	35.1	36.5	37.3	41.7	nventory days
	45.6	49.3	51.7	50.0	41.1	ebtor days
	106.2	114.7	118.4	111.2	111.7	reditor days
	10.7	10.6	9.9	9.4	10.4	Operating ROIC (%)
	-	-	(3.2)	(3.7)	(2.6)	Operating ROIC - WACC (%)
	10.4	10.0	9.2	8.4 (4.7)	8.9	OIC (%)
	- 13.5		(3.9)	(4.7)	(4.0)	OIC - WACC (%)
	1.5.5	13.5	12.8	12.3	14.0	OE (%)
	7.8	7.4	6.8	6.1	6.7	OA (%)

Sources: NTPC; BNP Paribas estimates

NTPC

Cash Flow (INRm)Year Ending Mar	2010A	2011A	2012E	2013E	2014
Recurring net profit	84,130	80,339	91,152	104,669	113,80
Depreciation	28,944	29,993	33,748	39,143	46,20
Associates & minorities	0	(52)	90	101	75
Other non-cash items	0	0	0	0	
Recurring cash flow	113,074	110,280	124,990	143,913	160,76
Change in working capital	(9,001)	(25,858)	4,430	(7,014)	(12,75
Capex - maintenance	0	0	0	0	
Capex - new investment	(140,093)	(137,358)	(101,246)	(194,191)	(194,19
Free cash flow to equity	(36,020)	(52,936)	28,174	(57,292)	(46,18
Net acquisitions & disposals	0	0	0	0	
Dividends paid	(36,720)	(36,722)	(35,156)	(37,002)	(39,45
Non recurring cash flows	(812)	34,199	21,624	18,265	11,82
Net cash flow	(73,552)	(55,460)	14,642	(76,030)	(73,80
Equity finance	0	0	0	0	
Debt finance	65,982	65,874	56,165	70,706	62,52
Movement in cash	(7,570)	10,414	70,807	(5,324)	(11,28
er share (INR)					
Recurring cash flow per share	13.71	13.37	15.16	17.45	19.5
CF to equity per share	(4.37)	(6.42)	3.42	(6.95)	(5.6
alance Sheet (INRm)Year Ending Mar	2010A	2011A	2012E	2013E	2014
Vorking capital assets	171,625	201,855	208,874	230,728	263,94
Vorking capital liabilities	(129,082)			(179,033)	
Net working capital	, ,	(152,744)	(164,194) 44,681	,	(199,49
• •	42,543 764,862	49,111	964,680	51,695	1 267 7
Tangible fixed assets		897,182		1,119,728	1,267,7
Operating invested capital	807,405	946,293	1,009,361	1,171,423	1,332,10
Goodwill	6	6	6	6	
Other intangible assets	0	0	0	0	24.04
nvestments	117,776	83,573	61,949	43,685	31,86
Other assets	3,853	4,592	4,592	4,592	4,59
nvested capital	929,040	1,034,464	1,075,908	1,219,705	1,368,62
Cash & equivalents	(160,530)	(178,598)	(249,496)	(244,273)	(233,74
Short term debt	0	0	0	0	
ong term debt *	441,485	507,548	563,714	634,420	696,94
Net debt	280,955	328,950	314,218	390,147	463,20
Deferred tax	2,297	6,717	6,717	6,717	6,73
Other liabilities	717	2,181	2,181	2,181	2,18
Fotal equity	626,173	683,846	739,932	807,699	882,80
Minority interests	2,790	4,851	4,940	5,041	5,79
nvested capital	929,040	1,034,464	1,075,908	1,219,705	1,368,62
* includes convertibles and preferred stock which is	being treated as debt				
er share (INR)					
ook value per share	75.94	82.94	89.74	97.96	10
angible book value per share	75.94	82.93	89.74	97.96	10
inancial strength					
let debt/equity (%)	44.7	47.8	42.2	48.0	52
let debt/total assets (%)	23.1	24.1	21.1	23.7	25
Current ratio (x)	2.6	2.5	2.8	2.7	2
CF interest cover (x)	-	-	20.3	11.4	6
/aluation	2010A	2011A	2012E	2013E	2014
ecurring P/E (x) *	16.1	16.8	14.8	12.9	11
ecurring P/E @ target price (x) *	20.0	20.9	18.5	16.1	14
reported P/E (x)	15.3	14.5	14.8	12.9	11
Dividend yield (%)	2.3	2.3	2.2	2.3	2
/CF (x)	12.0	12.3	10.8	9.4	8
/FCF (x)	(37.5)	(25.5)	48.0	(23.6)	(29.
rice/book (x)	2.2	2.0	1.8	1.7	(23.
rice/tangible book (x)	2.2	2.0	1.8	1.7	1
V/EBITDA (x) **	12.2	12.3	10.8	9.3	8
V/EBITDA (x) V/EBITDA @ target price (x) **	14.7	14.8	12.9	9.3 11.1	9
• , ,,	14.7	14.8	12.9	11.1	1
:V/invested capital (x)					

Sources: NTPC; BNP Paribas estimates

Aggressive capex to ramp up capacity to 64GW by FY17 and capex for captive coal mines.

History of change in investment rating and/or target price

NTPC (NTPC IN) Oct-07 Apr-08 Oct-08 Apr-09 Oct-09 Apr-10 Oct-10 Apr-11 Oct-11 Date Reco TP 313.00 25-Mar-08 BUY 225.00 11-Nov-08 HOLD 158.00 263.00 15-Jan-10 BUY 265.00 213.00 163.00 113.00 (INR) NTPC Target Price

Girish Nair started covering this stock from 27-May-2009

Price and TP are in local currency

Valuation and risks: Key risks to our DCF-based TP are delays in completion of new power plants, and lower availability of power plants because of fuel shortages or forced outages

Source: Bloomberg, BNP Paribas

Disclaimers and Disclosures

ANALYST(S) CERTIFICATION

Girish Nair, BNP Paribas Securities India Pvt Ltd, +91 22 33704380, girish.nair@asia.bnpparibas.com.

The analyst(s) or strategist(s) herein each referred to as analyst(s) named in this report certifies that (i) all views expressed in this report accurately reflect the personal view of the analyst(s) with regard to any and all of the subject securities, companies, or issuers mentioned in this report; (ii) no part of the compensation of the analyst(s) was, is, or will be, directly or indirectly, relate to the specific recommendation or views expressed herein; and (iii) is not aware of any other actual or material conflicts of interest concerning any of the subject securities companies, or issuers referenced herein as of the time of this certification.

Analysts mentioned in this disclaimer are employed by non-US affiliate of BNP Paribas Securities Corp., and is not registered/ qualified pursuant to NYSE and/ or FINRA regulations.

GENERAL DISCLAIMER

This report was produced by BNP Paribas Securities India Pvt Ltd, a member company of the BNP Paribas Group. "BNP Paribas" is the marketing name for the global banking and markets business of BNP Paribas Group¹. This report is for the use of intended recipients only and may not be reproduced (in whole or in part) or delivered or transmitted to any other person without our prior written consent. By accepting this report, the recipient agrees to be bound by the terms and limitations set forth herein.

BNP Paribas analysts prudently perform analysis and create quantitative models and estimates derived from their own review of publicly available data without any assistance from any represented company. BNP Paribas analyst estimates and models reflect the analysts' current judgment only; they are neither all-inclusive nor can they be guaranteed. "The analysts' analysis and models are subject to change based on various other factors. Valuations are based on internal quantitative models and qualitative interpretation. No representation or warranty, express or implied, is made that such information or analysis is accurate, complete or verified and it should not be relied upon as such.

Analysts' compensation is not linked to investment banking or capital markets transactions performed by BNP Paribas or the profitability or revenues of particular trading desks.

BNP Paribas analysts may participate in company events such as site visits and are prohibited from accepting payment by the company of associated expenses unless pre-approved by authorized members of Research management.

This report does not constitute a personal recommendation or take into account the particular investment objectives, financial situations, or needs of individual clients. Customers are advised to use the information contained herein as just one of many inputs and considerations prior to engaging in any trading activity. This report does not constitute a prospectus or other offering document or an offer or solicitation to buy or sell any securities or other investments. This report is not intended to provide the sole basis of any evaluation of the subject securities and companies mentioned in this report. Information and opinions contained in this report are published for reference of the recipients and are not to be relied upon as authoritative or without the recipient's own independent verification, or taken in substitution for the exercise of judgment by the recipient. Additionally, the products mentioned in this report may not be available for sale in certain jurisdictions.

BNP Paribas is not aware of any other actual or material conflicts of interest concerning any of the subject securities and companies referenced herein as of the time of publication of the research report.

This report is prepared for professional investors and is being distributed in Hong Kong by BNP Paribas Securities (Asia) Limited to persons whose business involves the acquisition, disposal or holding of securities, whether as principal or agent. BNP Paribas Securities (Asia) Limited, a subsidiary of BNP Paribas, is regulated by the Securities and Futures Commission for the conduct of dealing in securities, advising on securities and providing automated trading services.

This report is being distributed in Japan by BNP Paribas Securities (Japan) Limited which is registered as a Financial Instruments Business Operator to and regulated by Financial Services Agency, The Japanese Government.

This report is being distributed in the United Kingdom by BNP Paribas London Branch to persons who are not private customers as defined under U.K. securities regulations. BNP Paribas London Branch, a branch of BNP Paribas, is regulated by the Financial Services Authority for the conduct of its designated investment business in the U.K. This report may be distributed in the United States by BNP PARIBAS SECURITIES ASIA or by BNP Paribas Securities Corp.

This report may be distributed in the United States only to "major institutional investors" (as such term is defined in Rule 15a-6 under the Securities Exchange Act of 1934, as amended) and is not intended for the use of any person or entity that is not a major institutional investor. Where this report has been distributed in the United States it will have been reviewed by a FINRA S16 qualified registered supervisory analyst or a S24 qualified and authorized person, in accordance with FINRA requirements concerning third party affiliated research. All U.S. institutional investors receiving this report should effect transactions in securities discussed in the report through BNP Paribas Securities Corp. is a member of the New York Stock Exchange, the Financial Industry Regulatory Authority and the Securities Investor Protection Corporation. Reproduction, distribution or publication of this report in any other places or to persons to whom such distribution or publication is not permitted under the applicable laws or regulations of such places is strictly prohibited.

This report is distributed in Singapore by BNP Paribas Securities (Singapore) Limited ("BNPPSSL") and may be distributed in Singapore only to an accredited investor or an expert investor, each as defined under the Financial Advisers Regulations ("FAR") and the Securities and Futures Act (Chapter 289) of Singapore, as amended from time to time. In relation to the distribution to such categories of investors, BNPPSSL and its representatives are exempted under Regulation 35 of the FAR from the requirements in Section 36 of the Financial Advisers Act of Singapore, regarding the disclosure of certain interests in, or certain interests in the acquisition or disposal of, securities referred to in this report.

This report is being distributed in Australia by BNP Paribas Sydney Branch, registered in Australia as ABN 23 000 000 117 at 60 Castlereagh Street Sydney NSW 2000. BNP Paribas Sydney Branch is licensed under the Banking Act 1959 and the holder of Australian Financial Services Licence no. 238043 and therefore subject to regulation by the Australian Securities & Investments Commission in relation to delivery of financial services. By accepting this document you agree to be bound by the foregoing limitations, and acknowledge that information and opinions in this document relate to financial products or financial services which are delivered solely to wholesale clients (in terms of the Corporations Act 2001, sections 761G and 761GA; Corporations Regulations 2001, division 2, reg. 7.1.18 & 7.1.19) and/or professional investors (as defined in section 9 of the Corporations Act 2001).

To our readers in Taiwan: Information on securities that trade in Taiwan is distributed by BNP Paribas Securities (Taiwan) Co., Ltd. Such information is for your reference only. The reader should independently evaluate the investment risks and is solely responsible for their investment decision. Information on securities that do not trade in Taiwan is for informational purposes only and is not to be construed as a recommendation or a solicitation to trade in such securities. BNP Paribas Securities (Taiwan) Co., Ltd. may not execute transactions for clients in these securities. This publication may not be distributed to the public media or quoted or used by the public media without the express written consent of BNP Paribas.

The distribution of this report in other jurisdictions or to residents of other jurisdictions may also be restricted by law, and persons into whose possession this report comes should inform themselves about, and observe, any such restrictions. By accepting this report you agree to be bound by the foregoing instructions. This report is not directed to, or intended for distribution to or use by, any person or entity that is a citizen or resident of or located in any locality, state, country, or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation.

All research reports are disseminated and available to all clients simultaneously through our internal client websites. For all research available on a particular stock, please contact the relevant BNP Paribas research team or the author(s) of this report.

¹ No portion of this report was prepared by BNP Paribas Securities Corp. personnel, and references to "BNP Paribas" in this General Disclaimer section and in the immediately following Important Disclosures section refer to (BNP Paribas Securities India Pvt Ltd) only.

IMPORTANT DISCLOSURES

The disclosure column in the following table lists the important disclosures applicable to each company that has been rated and/or recommended in this report:



BNP Paribas represents that:

- Within the past year, it has managed or co-managed a public offering for this company, for which it received fees.
- 2. It had an investment banking relationship with this company in the last 12 months.
- 3. It received compensation for investment banking services from this company in the last 12 months.
- 4. It beneficially owns 1% or more or the market capitalization of this company.
- 5. It makes a market in securities issued by this company.
- 6. The analyst(s) or an individual who assisted in the preparation of this report (or a member of his/her household) has a financial interest position in securities issued by this company or derivatives thereof.
- 7. The analyst (or a member of his/her household) is an officer, director, or advisory board member of this company.

Additional Disclosures

Within the next three months, BNP Paribas may receive or seek compensation in connection with an investment banking relationship with one or more of the companies referenced herein.

Target price history, stock price charts, valuation and risk details, and equity rating histories applicable to each company rated in this report is available in our most recently published reports available on our website: http://eqresearch.bnpparibas.com, or you can contact the analyst named on the front of this note or your BNP Paribas representative.

All share prices are as at market close on 4 October 2011 unless otherwise stated.

RECOMMENDATION STRUCTURE

Stock Ratings

Stock ratings are based on absolute upside or downside, which we define as (target price* - current price) / current price.

BUY (B). The upside is 10% or more.

HOLD (H). The upside or downside is less than 10%.

REDUCE (R). The downside is 10% or more.

Unless otherwise specified, these recommendations are set with a 12-month horizon. Thus, it is possible that future price volatility may cause a temporary mismatch between upside/downside for a stock based on market price and the formal recommendation.

* In most cases, the target price will equal the analyst's assessment of the current fair value of the stock. However, if the analyst doesn't think the market will reassess the stock over the specified time horizon due to a lack of events or catalysts, then the target price may differ from fair value. In most cases, therefore, our recommendation is an assessment of the mismatch between current market price and our assessment of current fair value.

Industry Recommendations

Improving (♠): The analyst expects the fundamental conditions of the sector to be positive over the next 12 months.

Neutral (←→): The analyst expects the fundamental conditions of the sector to be maintained over the next 12 months.

Deteriorating (Ψ): The analyst expects the fundamental conditions of the sector to be negative over the next 12 months.

Country (Strategy) Recommendations

Overweight (0). Over the next 12 months, the analyst expects the market to score positively on two or more of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

Neutral (N). Over the next 12 months, the analyst expects the market to score positively on one of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

Underweight (U). Over the next 12 months, the analyst does not expect the market to score positively on any of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

RATING DISTRIBUTION (as at 4 October 2011)

Total BNP Paribas coverage universe	549	Investment Banking Relationship	(%)
Buy	346	Buy	4.34
Hold	150	Hold	1.99
Reduce	52	Reduce	1.92

Should you require additional information concerning this report please contact the relevant BNP Paribas research team or the author(s) of this report.

© 2011 BNP Paribas Group