

National Thermal Power Corporation

BSE Sensex: 7,686 NTPO	'	28 Oc	tober 2005	5							Ne	eutral
S&P CNX: 2,316 NTP	TERS CODE C.BO	Previo	us Recomm	endatio	n: Neu	tral						Rs94
Equity Shares (m)	8,245.5	YEAR	NET SALES	PAT*	EPS*	EPS	P/E	P/BV	ROE	ROCE	EV/	EV/
52-Week Range	110/72	END *	(RS M)	(RSM)	(RS)	GROWTH (%)	(X)	(X)	(%)	(%)	SALES	EBITDA
1,6,10 Rel. Perf. (%)	-1/-10/-6	03/05A	221,990	47,952	5.8	14.0	16.2	1.9	12.4	17.0	2.9	8.1
M.Cap. (Rs b)	776.3	03/06E	266,847	52,433	6.4	9.3	14.8	1.7	12.1	14.9	2.5	7.6
M.Cap. (US\$ b)	17.7	03/07E	307,915	59,898	7.3	14.2	13.0	1.6	12.8	15.8	2.4	7.1

^{*} Pre-exceptional earnings; FY05 reported Net Profit Rs58.1b

2QFY06 net profit: reported up 6% YoY; pre exceptionals up 20% YoY: During 2QFY06, NTPC reported net profit of Rs11.6bn, vs Rs10.9b in 2QFY05, up 6.4% YoY. 2QFY06 numbers are lower by Rs733m, due to change in accounting policy pertaining to foreign currency loans taken prior to April 2000. 2QFY05 reported numbers were higher by Rs656m, which pertains to 1QFY05 as CERC revised Tariff Order in August 2004, permitting tariffs for old generation stations to be calculated at 50:50 DER. Adjusted for these, 2QFY06 net profit stands at Rs12.4b vs Rs10.3b in 2QFY05, up 20% YoY.

Generation up 3.9% YoY, Capacity add of 500MW QoQ: Electricity generation increased to 36.1BUs during 2QFY06 (up 3.9%). During 2QFY06, 500MW Unit 4 at Rihand was commenced, taking installed capacity at 23935MW. PLF in Oct 05 ytd has increased to 87.93% for coal based projects vs 79.3% in 2QFY06.

News flow on capacity addition continue to be positive: Reliance has indicated that Gas Supply Agreement is expected to be finalized within the next one month, which would facilitate Kawas / Gandhar (1450MW) getting commissioned during FY08. Tie up between Alstom and BHEL for 800MW super critical boilers will facilitate coal based projects for NTPC. Capacity add is expected at 1710MW during FY06 and 4000MW+ during FY07.

Valuation and Recommendation: At the CMP of Rs94/sh, NTPC quotes at a PER of 14.8x FY06E and 12.9x FY07E; 11.9x FY06 and 11.2x FY07E adjusted profit (adjusted for excess depreciation in accounts as compared to Tariff Order and rebate on OTSS bonds). We maintain our **Neutral** rating on the stock.

Y/E MARCH		FYO	5			FY0	6 E		FY05	FY06E
_	1Q	2Q	3Q	4Q	1Q	2Q	3QE	4QE		
Sales	51,916	52,497	56,982	64,269	60,567	59,259	68,253	78,768	225,650	266,847
Change (%)	8.4	50.7	6.3	22.8	16.7	12.9	19.8	22.6	19.6	18.3
EBITDA	13,277	13,807	15,724	17,904	15,426	12,977	16,953	21,981	60,698	67,337
Change (%)	-13.0	-213.2	10.1	452.4	16.2	-6.0	7.8	22.8	194.9	10.9
As of % Sales	25.6	26.3	27.6	27.9	25.5	21.9	24.8	27.9	26.9	25.2
Depreciation	4,785	4,866	4,981	4,952	4,873	5,280	6,232	8,099	19,584	24,484
Interest	2,764	2,713	2,401	2,264	2,357	1,545	3,541	5,292	10,142	12,735
Other Income	5,380	5,278	5,724	13,414	5,528	6,315	7,150	6,908	29,810	25,901
Extraordinary Income/(Expense)	1	2	0	0	0	0	0	0	0	0
PBT	11,108	11,506	14,066	24,102	13,724	12,467	14,330	15,498	60,782	56,019
Tax	567	566	411	1,168	637	832	987	1,129	2,712	3,585
Effective Tax Rate (%)	5.1	4.9	2.9	4.8	4.6	6.7	6.9	7.3	4.5	6.4
Reported PAT	10,541	10,940	13,655	22,934	13,087	11,635	13,343	14,368	58,070	52,433
Adjusted PAT (Pre Exceptional)	11,197	10,284	12,999	13,472	12,587	12,368	13,343	14,368	47,952	52,433
Change (%)	23.9	11.3	58.7	0.6	12.4	20.3	2.6	6.7	10.4	9.3

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MOTILAL OSWAL

2QFY06 net profit: reported up 6% YoY; pre exceptionals up 20%YoY

During 2QFY06, NTPC reported net profit of Rs11.6bn, vs Rs10.9b in 2QFY05, up 6.4% YoY. 2QFY06 numbers are lower by Rs733m, due to change in accounting policy pertaining to foreign currency loans taken prior to April 2000. 2QFY05 reported numbers were higher by Rs656m, which pertains to 1QFY05 as CERC revised Tariff Order in August 2004, permitting tariffs for old generation stations to be calculated at 50:50 DER. Adjusted for these, 2QFY06 net profit stands at Rs12.4b vs Rs10.3b in 2QFY05, up 20% YoY.

Generation up 3.9%YoY, PLF in Oct 05 ytd improved to 87.9%

Electricity generation increased to 36.1BUs during 2QFY06 (up 3.9%). 2Q is seasonally the leanest quarter as generation from hydro power station improves, resulting in lower generation from thermal power projects. Demand also drops down during 2Q. PLF in Oct 05 ytd has increased to 87.93% for coal based projects vs 79.3% in 2QFY06.

Increased generation YoY was achieved despite serious concerns on coal availability as NTPC successfully made alternate arrangements in terms of imported coal (2QFY06 coal imports: Simhadri - 239K tons, Talcher - 502K tons and Farakka - 145K tons). Going forward, the management indicated that Coal India is outsourcing mining activities at several of its mines, which would make available additional coal of 2m tons to NTPC by end FY2006. Also, Coal India is expediting the development of linkage mines at Talcher which will provide incremental 1.2m tons of coal per annum to NTPC.

Capacity Addition: FY06 - 1710MW, FY07 - 4000MW+

During 2QFY06, 500MW Unit 4 at Rihand was commenced, taking installed capacity at 23935MW (1QFY06 – 23435MW). Installed capacity during 2QFY05 was 22435MW. During 2HFY06, 210MW at Unchahar and 500MW at Vindhyachal would be commissioned, taking the capacity addition during FY06 at 1710MW. During FY07, we expect capacity addition of 4000MW+.

NTPC has been recovering 100% of its dues

As at Sept 2005, all the SEBs had opened and maintained Letters of Credit (LoC) equal to or more than 105% of average monthly billing as per One-Time Settlement Scheme. NTPC has been recovering 100% of its dues, for the third year in a row.

Coal mining: Pakri Barwadih could produce 20m tons pa

NTPC has been allocated the Pakri Barwadih coal block in North Karanpura. The company intends to commence production by December 2007. The initial capacity of 10m tons can be expanded to 20m tons. Further, the Pakri Barwadih mine would be operated as a basket mine, and would meet the requirement of both Barh and North Karanpura. Recoverable reserves stand at ~425m tons.

The recommendation from the Ministry of Power to the Ministry of Coal for allocation of 11 coal blocks has been received by the company. Also, the recommendation of allocation of 4 blocks on priority basis has also been received. If successful, the company intends to produce 50m ton of coal from captive mines by FY2010.

NTPC: OPERATIONAL PERFORMANCE

PARTICULARS 1QFY06 1QFY05 % YOY 2QFY06	2QFY05	% YOY
Electricity Sales (MUs) 38,523 36,203 6.4 36,152	34,806	3.9
Electricity Generation (MUs) 41,406 38,871 6.5 39,263	37,635	4.3
Capacity (MW) 23,435 21,935 6.8 23,935	22,435	6.7
Avg Selling Price (Rs/kwh) 1.57 1.43 9.9 1.64	1.51	8.7
PLF (%) - Coal based 79.3	82.6	
PLF (%) - Gas based 60.2	62.6	

Source: Company/Motilal Oswal Securities

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Intends to set up Integrated projects (3000MW each with captive mines)

NTPC proposes to set up two projects of 3000MW each in Raipur and Talcher during the Eleventh Plan (FY08-FY12), as integrated power projects with captive mines. This is over and above the capacity addition program of 17052MW during the period and would depend on the successful allocation of mines from the Ministry of Coal. Estimated capex on these projects are Rs250b, while the development of mines is likely to cost Rs25b. We believe that this is fairly positive, as the key issue with NTPC has been the large cash and investment portfolio in the books.

Hydro projects - diversifying fuel mix

NTPC is currently working on three hydro power projects: Koldam 800MW, Loharinag Pala 600MW, Tapovan Vishnugad 520MW – totaling 1920MW. During the Eleventh Plan, NTPC intends to complete 2500MW of hydro power projects. During the Thirteenth Five Year Plan (FY2013-2017), NTPC has already identified hydro projects of 3000MW+. The management indicated that in the current initiative of the Government of India to add 50000MW of hydro power capacity during the Thirteenth Plan, the company would continue to identify more projects to be executed by NTPC.

Dabhol project

The management stated that Ratnagiri Gas and Power Limited would have an equity capital of Rs15b, to be financed as: NTPC Rs5b, GAIL Rs5b and Indian Financial Institutions Rs5b. Gas would be made available by GAIL.

Estimated time to restart Phase 1 and complete construction of Phase 2 and regassification terminal is estimated at 1 year from zero date. Fixed charges are estimated at Rs1.1 per unit (Rs0.93 per unit for power plant and Rs0.17 per unit for the regassification terminal), while the fuel cost would be Rs1.2 per unit. Commercial generation is expected to commence by November 2006.

News flow on capacity addition would continue to be positive

- Gas based projects: Reliance Industries has indicated that the Gas Supply Agreement is expected to be finalized within the next one month. NTPC's management seemed confident that the Letter of Award issued on Reliance tantamounts to a firm contract. Thus, this will pave the way for Kawas / Gandhar (725 X 2 = 1450MW) projects getting commissioned during FY08.
- **Coal based projects:** Alstom has signed the technology transfer pact with BHEL for 800MW super critical boilers. This is positive and could expedite allocation of 800MW power projects on a nomination basis to BHEL, as preferred by the government. Thus we could see the coal based power projects for NTPC picking up as well.

Valuation and recommendation

At the CMP of Rs94/sh, NTPC quotes at a PER of 14.8x FY06E and 12.9x FY07E; 11.9x FY06 and 11.2x FY07E adjusted profit (adjusted for excess depreciation in accounts as compared to Tariff Order and rebate on OTSS bonds). We maintain our **Neutral** rating on the stock.

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National Thermal Power Corporation: an investment profile

Company description

NTPC is the largest power generator in India with installed capacity of 23,749 MW, generating 27.1% of the electricity in the country. Its cost of power at Rs1.47 per unit is amongst the lowest. The company has outlined a massive capacity addition programme to set up 26,493 MW of new capacity during FY03-12. It also intends to venture into related areas like coal mining, distribution, transmission, merchant sales, gas exploration, etc.

Key investment arguments

- Outlined expansion projects during Xth and XIth Plan represents 24% of country's planned generation capacity addition.
- Enjoys significant growth option across entire spectrum: transmission, distribution, coal mining, merchant power plants, gas exploration, etc.
- Efficiency incentives result in core business RoE of 21% v/s 14% permitted by CERC.
- Growth will not be equity dilutive.

Key investment risks

- Tightening of efficiency norms may reduce quantum of incentives.
- Slowdown in the pace of reforms would impact growth plans.

Recent developments

- News flow on diversification efforts like distribution, transmission, coal mining, international foray, merchant sales, etc continue to be positive.
- Recovered past arrears of Rs8.6b in FY05.

Valuation and view

- Earnings CAGR (pre exceptionals) of 12% during FY05-FY08; highest in Indian power sector.

Sector view

We believe that the Indian power sector is interestingly poised, offering significant growth potential. Incumbents, especially the CPSUs and private players, enjoy growth optionality, which could be in multiples of the current size. While COSU's like NTPC and Neyveli Lignite have embarked on a capex programme to double existing capacity by FY12, private players have also announced large projects.

COMPARATIVE VALUATIONS

		NTPC	NTPC (ADJ)*	REL
P/E (x)	FY06E	14.8	12.0	15.0
	FY07E	13.0	11.2	13.4
P/BV (x)	FY06E	1.7	1.7	1.6
	FY07E	1.6	1.6	1.4
RoE (%)	FY06E	12.1	12.8	9.8
	FY07E	12.8	13.4	10.4

^{*} Adjusted for higher depreciation in books as compared to tariff Order and write-back of Rebate on OTSS bonds

SHAREHOLDING PATTERN (%)

	· · · · ·		
	SEP.05	JUN.05	SEP.04
Promoters	89.5	89.5	N.A.
Domestic Institutions	1.0	1.1	N.A.
FIIs/FDIs	6.9	6.0	N.A.
Others	2.6	3.4	N.A.

EPS: INQUIRE FORECAST VS CONSENSUS (RS)

	INQUIRE	CONSENSUS	VARIATION
	FORECAST	FORECAST	(%)
FY06	6.4	6.4	-
FY07	7.3	7.3	-0.1

TARGET PRICE AND RECOMMENDATION

CURRENT	TARGET	UPSIDE	RECO.
PRICE (RS)	PRICE (RS)	(%)	
94	107	13.8	Neutral

STOCK PERFORMANCE (1 YEAR)



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INCOME STATEMENT				(Rs	Million)	RATIOS					
Y/E MARCH	2003	2004	2005E	2006E	2007E	Y/E MARCH	2003	2004	2005E	2006E	2007E
Net Sales	190,475	188,712	225,650	266,847	307,915	Basic (Rs)					
Change (%)	6.9	-0.9	19.6	18.3	15.4	EPS (Pre Excep)	4.2	5.1	5.8	6.4	7.3
						Cash EPS	6.6	9.3	9.4	9.3	10.6
EBITDA	52,093	42,079	67,511	73,901	84,402	BV/Share	42.0	45.5	50.7	54.3	58.9
M argin (%)	27.3	22.3	29.9	27.7	27.4	DPS	0.9	1.4	2.4	2.4	2.4
Depreciation	15,291	20,232	19,584	24,484	27,602	Payout (%)	22.9	30.6	46.8	42.8	37.4
EBIT	36,802	21,847	47,927	49,417	56,800	Valuation (x)					
Int. and Finance Charges	9,916	33,697	16,955	19,299	19,763	P/E		18.4	16.2	14.8	13.0
Other Income - Rec.	7,221	58,008	19,692	25,901	27,595	Cash P/E		10.1	10.0	10.1	8.9
						P/BV EV/Sales		2.1 3.7	1.9 2.9	1.7	1.6 2.4
Profit before Tax	34,107	46,158	50,664	56,019	64,631	EV/Sales EV/EBITDA		10.5	2.9 8.1	2.5 7.6	7.1
Current Tax	1,465	6,289		3,585	4,733	Dividend Yield (%)		1.5	2.5	2.5	2.5
Deferred Tax	0	0	0	0	0				2.0	2.0	2.0
Tax Rate (%)	4.3	13.6	5.4	6.4	7.3	Return Ratios (%)					
Adjusted BAT	22 642	20 060	47.050	E2 422	50 909	EBITDA Margins (%)	27.3	22.3	29.9	27.7	27.4
Adjusted PAT	32,642	39,869	47,952	52,433	59,898	Net Profit Margins (%)	18.9	27.9	25.7	19.6	19.5
Extra Ordinary Expense/(In	•	-12,739		0	0	RoE	10.4	11.7	12.4	12.1	12.8
Reported PAT	36,075	52,608	58,070	52,433	59,898	RoCE	15.2	16.4	17.0	14.9	15.8
Change (%)	1.9	45.8	10.4	-9.7	14.2	Working Capital Ratios					
M argin (%)	18.9	27.9	25.7	19.6	19.5	Fixed Asset Turnover (x)	0.5	0.5	0.5	0.5	0.5
Less: Mionrity Interest	0	0	0	0	0	Asset Turnover (x)	0.4	0.4	0.4	0.4	0.4
Net Profit	36,075	52,608	58,070	52,433	59,898	Debtor (Days)	16	9	10	10	10
						Inventory (Days)	34	34	35	35	35
BALANCE SHEET				(Rs	Million)	Working Capital Turnover	47	94	126	93	52
Y/E MARCH	2003	2004	2005E	2006E	2007E	Leverage Ratio (x)					
Equity Share Capital	78,125	78,125	82,455	82,455	82,455	Current Ratio	1.4	1.7	2.0	1.8	1.5
Total Reserves	249,665	277,376	335,537	365,549	403,026	Interest Cover Ratio	3.7	0.6	2.8	2.6	2.9
Net Worth	327,790	355,501	417,991	448,003	485,480	Debt/Equity	0.4	0.4	0.4	0.5	0.6
Deferred liabilities	1	1	1	1	1						
Total Loans	134,920	159,903	182,046	222,007	310,507	CASH FLOW STATEMENT				(Rs	Million)
Capital Employed	462,711	515,405	600,038	670,012	795,988	Y/E MARCH	2003	2004	2005E	2006E	2007E
	,	•	•	•	•	Oper. Profit/(Loss) before	52,831	79,129	80,366	80,503	92,233
Gross Block	366,189	400,281	489,675	519,913	641,599	Direct Taxes Paid (Inc)/Dec in WC	-1,464 -35,230	-6,289 94,399	-2,712 -29,404	-3,585 9,989	-4,733 24,058
Less: Accum. Deprn.	167,728	187,736	207,863	232,347	259,949	CF from Operations	16,137	167,239	48,250	86,907	111,557
Net Fixed Assets	198,461	212,545	281,812	287,567	381,650	or from operations	10, 107	107,200	40,230	00,301	111,007
Capital WIP	63,863	74,953	41,557	96,797	122,955	EO Expense	0	0	0	0	0
Investments	170,266	173,380	179,455	196,027	220,827	CF from Operating inc	16,137	167,239	48,250	86,907	111,557
Curr. Assets	104,398	135,468	197,668	206,000	217,159	(inc)/dec in FA	-35,507	-45,265	-55,998	-85,479	-147,843
Inventory	17,712	17,380	21,638	25,588	29,526	(Pur)/Sale of Investments	3,607	-136,706	-6,075	-16,572	-24,800
Account Receivables	8,360	4,699		7,311	8,436	CF from Investments	-31,900	-181,971	-62,073	-102,051	-172,643
Cash and Bank Balance	5,447	6,091			26,219			_	00.00	-	_
Others	72,879	107,298			152,978	Issue of Shares	0	0	26,841	0	0
						(Inc)/Dec in Debt Dividend Paid	16,637	27,586	22,143	39,962	88,499
Curr. Liability & Prov.		80,941	•	116,923	147,146	CF from Fin. Activity	-7,475 9,162	-12,210 15,376	-22,421 26,563	-22,421 17,541	-22,421 66,078
Account Payables	0	0		90,981	121,029	or from this Activity	3, 102	13,370	20,303	17,541	00,070
Provisions	0	0		25,941	26,117	Inc/Dec of Cash	-6,601	644	12,739	2,396	4,992
Net Current Assets	30,121	•	96,671	89,078	70,012	Add: Beginning Balance	12,048	5,447	6,091	18,830	21,227
Appl. of Funds	462,711	515,405	599,495	669,469	795.445	Clasing Polones	E 447	6 001	40.000	24 227	26 240

28 October 2005 5

Closing Balance

5,447

6,091

18,830

21,227

26,219

462,711 515,405 599,495 669,469 795,445

Appl. of Funds

E: MOSt Estimates

MOTILAL OSWAL NTPC

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Disclosure of Interest Statement	NTPC
 Analyst ownership of the stock 	No
Group/Directors ownership of the stock	No
3. Broking relationship with company covered	No
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