Tata Power (INE245A01021)

TATA

TATA POWER

Financial Modeling Report

A Comprehensive DCF and Comparable Comps Valuation

Harshdeep Sachan

Table of Contents

TATA
TATA POWER

- Detailed Balance Sheet
- Detailed Cash Flow
- Historical Financial Statement
- Common Size Statement
- Ratio Analysis
- Forecasting
- Sales Forecasting
- WACC
- Beta Regression
- Intrinsic Growth
- DCF Valuation
- Comparable Company Valuation
- Football Field Analysis

TATA POWER CO.
(INE245A01021)

TATA POWER

Detailed Cash Flow Satement- TATA POWER COMPANY LTD												
Particulars	**Mar-13**	**Mar-14**	**Mar-15**	**Mar-16**	**Mar-17**	**Mar-18**	**Mar-19**	**Mar-20**	**Mar-21**	**Mar-22**	**Mar-23**	**Mar-24**
Cash from Operating Activity -	**3,286.0**	**6,483.0**	**5,981.0**	**7,415.0**	**7,014.0**	**6,364.0**	**4,574.0**	**7,375.0**	**8,345.0**	**6,693.0**	**7,166.0**	**12,596.0**
Profit from operations	6,762.0	7,434.0	7,351.0	6,282.0	5,958.0	6,007.0	6,895.0	7,310.0	7,651.0	7,576.0	9,016.0	11,258.0
Receivables	(936.0)	(1,118.0)	(1,075.0)	(243.0)	(52.0)	715.0	(1,649.0)	(97.0)	(1,104.0)	(888.0)	(1,070.0)	(859.0)
Inventory	(246.0)	14.0	248.0	57.0	(205.0)	(147.0)	(85.0)	(21.0)	(93.0)	(2,308.0)	310.0	(445.0)
Payables	562.0	923.0	579.0	1,554.0	1,108.0	86.0	(43.0)	(797.0)	1,710.0	3,222.0	(3,018.0)	1,896.0
Loans Advances	(545.0)	(262.0)	31.0	185.0	54.0	(32.0)	22.0	(5.0)	(1.0)	(1.0)	-	1.0
Operating investments	16.0	(9.0)	6.0	(25.0)	147.0	37.0	117.0	(136.0)	158.0	-	-	-
Deposits	-	8.0	-	-	-	-	-	-	-	-	-	-
Other WC items	(1,245.0)	447.0	(349.0)	(1.0)	584.0	299.0	(177.0)	1,729.0	472.0	(214.0)	2,799.0	1,334.0
Working capital changes	(2,393.0)	4.0	(561.0)	1,526.0	1,636.0	958.0	(1,815.0)	674.0	1,141.0	(189.0)	(979.0)	1,927.0
Direct taxes	(1,083.0)	(955.0)	(808.0)	(393.0)	(580.0)	(602.0)	(506.0)	(609.0)	(447.0)	(695.0)	(871.0)	(589.0)
Cash from Investing Activity -	**(4,026.0)**	**(3,609.0)**	**(3,865.0)**	**(1,805.0)**	**(7,373.0)**	**(1,512.0)**	**(272.0)**	**(493.0)**	**993.0**	**(6,250.0)**	**(7,263.0)**	**(9,027.0)**
Fixed assets purchased	(4,270.0)	(4,336.0)	(3,494.0)	(2,177.0)	(3,322.0)	(3,560.0)	(3,576.0)	(2,226.0)	(3,336.0)	(7,268.0)	(7,656.0)	(13,333.0)
Fixed assets sold	77.0	28.0	67.0	73.0	16.0	56.0	43.0	36.0	1,549.0	35.0	50.0	146.0
Investments purchased	(23,069.0)	(19,933.0)	(23,116.0)	(20,105.0)	(39,462.0)	(20,055.0)	(20,777.0)	(15,594.0)	(80.0)	(585.0)	(973.0)	(300.0)
Investments sold	23,393.0	20,113.0	22,914.0	19,716.0	38,913.0	20,948.0	23,444.0	15,251.0	928.0	360.0	879.0	342.0
Interest received	252.0	203.0	185.0	205.0	110.0	124.0	139.0	165.0	161.0	151.0	315.0	661.0
Dividends received	23.0	17.0	23.0	242.0	517.0	1,002.0	309.0	1,895.0	1,846.0	1,856.0	3,310.0	2,317.0
Investment in group cos	-	-	-	-	(26.0)	(106.0)	-	-	-	-	-	-
Redemp n Canc of Shares	-	-	-	-	185.0	57.0	-	-	-	-	-	-
Acquisition of companies	(865.0)	-	-	-	-	-	-	-	-	-	-	-
Inter corporate deposits	(288.0)	269.0	(435.0)	177.0	90.0	(50.0)	84.0	-	5.0	-	(2.0)	16.0
Other investing items	720.0	30.0	(9.0)	64.0	(4,393.0)	73.0	62.0	(20.0)	(80.0)	(799.0)	(3,187.0)	1,125.0
Cash from Financing Activity -	**(593.0)**	**(3,265.0)**	**(2,239.0)**	**(6,183.0)**	**937.0**	**(4,726.0)**	**(5,184.0)**	**(5,110.0)**	**(7,603.0)**	**(1,183.0)**	**1,341.0**	**(4,497.0)**
Proceeds from shares	361.0	136.0	111.0	158.0	157.0	85.0	97.0	100.0	2,996.0	11.0	4,008.0	114.0
Proceeds from borrowings	8,570.0	15,098.0	17,733.0	17,645.0	22,243.0	34,330.0	45,714.0	49,600.0	5,602.0	11,474.0	75,571.0	68,889.0
Repayment of borrowings	(5,692.0)	(14,374.0)	(17,836.0)	(20,145.0)	(17,282.0)	(33,893.0)	(46,355.0)	(49,707.0)	(11,576.0)	(8,817.0)	(74,402.0)	(68,376.0)
Interest paid fin	(2,991.0)	(3,581.0)	(3,607.0)	(3,246.0)	(3,264.0)	(4,570.0)	(3,976.0)	(4,002.0)	(3,731.0)	(3,555.0)	(4,108.0)	(4,777.0)
Dividends paid	(345.0)	(341.0)	(461.0)	(411.0)	(415.0)	(417.0)	(410.0)	(501.0)	(526.0)	(559.0)	(787.0)	(887.0)
Financial liabilities	-	-	-	-	-	-	-	(330.0)	(352.0)	(384.0)	(394.0)	(465.0)
Other financing items	(496.0)	(203.0)	1,822.0	(184.0)	(501.0)	(261.0)	(253.0)	(270.0)	(16.0)	646.0	1,452.0	1,004.0
Net Cash Flow	**(1,333.0)**	**(392.0)**	**(123.0)**	**(574.0)**	**579.0**	**126.0**	**(883.0)**	**1,773.0**	**1,736.0**	**(741.0)**	**1,243.0**	**(928.0)**

TATA POWER CO.
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Detailed Balance Sheet- TATA POWER COMPANY LTD

Particulars	Mar-13	Mar-14	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Equity Capital	237.0	237.0	270.0	270.0	270.0	270.0	270.0	270.0	320.0	320.0	320.0	320.0
Reserves	12,098.0	12,164.0	14,048.0	11,363.0	12,944.0	16,129.0	18,035.0	19,296.0	22,003.0	22,122.0	28,468.0	32,036.0
Borrowings												
Long term Borrowings	31,599.0	30,470.0	32,393.0	22,414.0	25,143.0	22,356.0	31,139.0	32,695.0	30,045.0	32,730.0	30,708.0	37,392.0
Short term Borrowings	3,547.0	4,707.0	4,587.0	14,589.0	16,280.0	18,827.0	13,875.0	11,844.0	13,126.0	14,860.0	18,266.0	12,088.0
Lease Liabilities	-	-	-	-	-	-	-	3,560.0	3,537.0	3,605.0	3,949.0	4,210.0
Preference Capital	-	-	-	-	-	245.0	-	-	-	-	-	-
Other Borrowings	2,736.0	4,996.0	3,627.0	1,846.0	7,393.0	7,406.0	3,491.0	3,836.0	-	-	-	-
Other Liabilities												
Non controlling int	2,065.0	2,273.0	2,493.0	1,750.0	1,869.0	2,015.0	2,167.0	2,332.0	2,927.0	3,587.0	5,417.0	5,977.0
Trade Payables	3,541.0	4,574.0	5,235.0	4,401.0	5,529.0	5,610.0	5,481.0	5,095.0	7,146.0	10,460.0	7,407.0	9,321.0
Advance from Customers	458.0	560.0	377.0	220.0	413.0	559.0	485.0	782.0	1,209.0	1,180.0	2,458.0	2,197.0
Other liability items	10,975.0	11,402.0	12,154.0	13,204.0	12,989.0	8,718.0	9,129.0	9,962.0	18,342.0	23,687.0	31,104.0	35,514.0
Total Liabilities	**67,257.0**	**71,383.0**	**75,185.0**	**70,057.0**	**82,829.0**	**81,892.0**	**84,073.0**	**89,674.0**	**98,655.0**	**1,12,550.0**	**1,28,096.0**	**1,39,054.0**
Fixed Assets												
Land	630.0	939.0	1,431.0	919.0	1,079.0	974.0	1,032.0	2,071.0	2,186.0	2,284.0	2,672.0	3,352.0
Building	2,350.0	2,687.0	2,927.0	2,696.0	2,792.0	2,906.0	2,938.0	3,058.0	3,826.0	4,043.0	4,432.0	4,503.0
Plant Machinery	37,564.0	40,297.0	41,848.0	36,484.0	44,014.0	43,914.0	44,924.0	47,425.0	48,607.0	52,664.0	55,799.0	59,919.0
Equipments	5,142.0	5,561.0	6,129.0	4,941.0	5,317.0	5,812.0	6,364.0	6,967.0	11,790.0	15,200.0	18,485.0	22,097.0
Furniture n fittings	97.0	114.0	127.0	133.0	137.0	122.0	120.0	118.0	134.0	144.0	167.0	187.0
Railway sidings	99.0	104.0	100.0	94.0	96.0	99.0	103.0	104.0	-	-	-	-
Vehicles	253.0	259.0	250.0	110.0	220.0	250.0	245.0	235.0	228.0	225.0	247.0	300.0
Intangible Assets	5,757.0	6,395.0	6,706.0	99.0	1,768.0	1,666.0	1,654.0	1,646.0	1,800.0	1,864.0	1,865.0	1,803.0
Other fixed assets	4,300.0	5,011.0	5,404.0	2,192.0	4,211.0	4,265.0	4,233.0	5,441.0	5,584.0	5,876.0	6,229.0	6,519.0
Gross Block	**56,193.0**	**61,367.0**	**64,925.0**	**47,667.0**	**59,634.0**	**60,008.0**	**61,613.0**	**67,064.0**	**74,156.0**	**82,301.0**	**89,897.0**	**98,680.0**
Accumulated Depreciation	14,840.0	17,973.0	20,199.0	11,254.0	13,040.0	15,352.0	17,308.0	19,398.0	21,976.0	24,911.0	28,150.0	31,470.0
Net Block	41,353.0	43,394.0	44,726.0	36,413.0	46,594.0	44,656.0	44,305.0	47,666.0	52,180.0	57,390.0	61,747.0	67,210.0
CWIP	2,358.0	3,389.0	3,323.0	1,345.0	2,178.0	1,653.0	2,576.0	1,612.0	3,270.0	4,635.0	5,376.0	11,561.0
Investments	3,120.0	3,019.0	3,445.0	11,785.0	11,873.0	12,429.0	13,542.0	14,535.0	13,149.0	14,160.0	16,670.0	16,316.0
Other Assets												
Inventories	2,027.0	2,073.0	1,844.0	1,373.0	1,600.0	1,623.0	1,706.0	1,752.0	1,886.0	4,232.0	3,943.0	4,420.0
Trade receivables	3,305.0	4,543.0	5,564.0	3,540.0	3,832.0	2,789.0	4,445.0	4,426.0	5,200.0	5,980.0	6,952.0	7,402.0
Cash Equivalents	1,990.0	1,555.0	1,483.0	663.0	954.0	1,186.0	787.0	2,094.0	5,871.0	6,641.0	11,207.0	9,152.0
Loans n Advances	298.0	579.0	400.0	291.0	395.0	490.0	503.0	552.0	609.0	887.0	1,079.0	1,126.0
Other asset items	12,806.0	12,832.0	14,400.0	14,644.0	15,402.0	17,066.0	16,209.0	17,037.0	16,491.0	18,627.0	21,123.0	21,868.0
Total Assets	**67,257.0**	**71,383.0**	**75,185.0**	**70,057.0**	**82,829.0**	**81,892.0**	**84,073.0**	**89,674.0**	**98,655.0**	**1,12,550.0**	**1,28,096.0**	**1,39,054.0**

TATA POWER CO.
(INE245A01021)

TATA POWER

Historical Financial Statement- TATA POWER COMPANY LTD

Years	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24	LTM
# **Income Statement**											
Sales	₹ 33,592.8	₹ 29,494.3	₹ 27,587.6	₹ 26,840.3	₹ 29,881.1	₹ 29,136.4	₹ 32,703.3	₹ 42,815.7	₹ 55,109.1	₹ 61,448.9	₹ 63,488.9
Sales Growth	-	-12.20%	-6.46%	-2.71%	11.33%	-2.49%	12.24%	30.92%	28.71%	11.50%	3.32%
COGS	₹ 24,356.5	₹ 21,644.5	₹ 21,013.1	₹ 19,864.3	₹ 22,497.0	₹ 20,639.1	₹ 24,985.6	₹ 34,239.4	₹ 45,560.7	₹ 49,060.6	₹ 52,431.9
COGS % Sales	72.51%	73.39%	76.17%	74.01%	75.29%	70.84%	76.40%	79.97%	82.67%	79.84%	82.58%
Gross Profit	**₹ 9,236.3**	**₹ 7,849.8**	**₹ 6,574.5**	**₹ 6,976.0**	**₹ 7,384.1**	**₹ 8,497.3**	**₹ 7,717.7**	**₹ 8,576.3**	**₹ 9,548.4**	**₹ 12,388.3**	**₹ 11,057.0**
Gross Margins	27.49%	26.61%	23.83%	25.99%	24.71%	29.16%	23.60%	20.03%	17.33%	20.16%	17.42%
Selling & General Expenses	₹ 2,935.1	₹ 5,744.5	₹ 1,101.3	₹ 4,681.1	₹ 4,314.2	₹ 1,692.2	₹ 796.8	₹ 1,545.4	₹ 1,820.6	₹ 1,653.0	
S&G Exp % Sales	8.74%	19.48%	3.99%	17.44%	14.44%	5.81%	2.44%	3.61%	3.30%	2.69%	0.00%
Other Income	₹ 1,056.0	₹ 4,060.0	₹ 1,297.4	₹ 6,585.6	₹ 7,186.5	₹ 2,280.2	₹ 1,775.0	₹ 2,485.5	₹ 5,540.1	₹ 3,416.3	
EBITDA	**₹ 7,357.2**	**₹ 6,165.3**	**₹ 6,770.6**	**₹ 8,880.5**	**₹ 10,256.4**	**₹ 9,085.2**	**₹ 8,695.9**	**₹ 9,516.4**	**₹ 13,267.9**	**₹ 14,151.6**	**₹ 11,057.0**
EBITDA Margins	21.90%	20.90%	24.54%	33.09%	34.32%	31.18%	26.59%	22.23%	24.08%	23.03%	17.42%
Deperciation	₹ 2,174.2	₹ 1,648.7	₹ 1,955.6	₹ 2,346.2	₹ 2,393.1	₹ 2,633.6	₹ 2,744.9	₹ 3,122.2	₹ 3,439.2	₹ 3,786.4	₹ 3,926.6
Depreciation % Sales	6.47%	5.59%	7.09%	8.74%	8.01%	9.04%	8.39%	7.29%	6.24%	6.16%	6.18%
EBIT	**₹ 5,183.1**	**₹ 4,516.5**	**₹ 4,815.1**	**₹ 6,534.3**	**₹ 7,863.3**	**₹ 6,451.7**	**₹ 5,950.9**	**₹ 6,394.2**	**₹ 9,828.7**	**₹ 10,365.2**	**₹ 7,130.4**
Interest	₹ 3,698.7	₹ 3,235.8	₹ 3,365.0	₹ 3,761.5	₹ 4,170.0	₹ 4,493.7	₹ 4,010.4	₹ 3,859.0	₹ 4,371.7	₹ 4,633.2	₹ 4,549.3
Interest % Sales	11.01%	10.97%	12.20%	14.01%	13.96%	15.42%	12.26%	9.01%	7.93%	7.54%	7.17%
Earning Before Tax (EBT)	**₹ 1,484.4**	**₹ 1,280.7**	**₹ 1,450.1**	**₹ 2,772.8**	**₹ 3,693.3**	**₹ 1,957.9**	**₹ 1,940.5**	**₹ 2,535.2**	**₹ 5,457.0**	**₹ 5,732.0**	**₹ 2,581.0**
EBT % Sales	4.42%	4.34%	5.26%	10.33%	12.36%	6.72%	5.93%	5.92%	9.90%	9.33%	4.07%
Tax	₹ 1,074.9	₹ 680.3	₹ 350.5	₹ 162.0	₹ 1,087.6	₹ 641.5	₹ 501.9	₹ 379.6	₹ 1,647.3	₹ 1,451.9	₹ 1,885.6
Effective Tax Rate	72.42%	53.12%	24.17%	5.84%	29.45%	32.76%	25.86%	14.97%	30.19%	25.33%	73.06%
Net Profit	**₹ 409.4**	**₹ 600.4**	**₹ 1,099.6**	**₹ 2,610.9**	**₹ 2,605.7**	**₹ 1,316.4**	**₹ 1,438.7**	**₹ 2,155.6**	**₹ 3,809.7**	**₹ 4,280.1**	**₹ 695.5**
Net Margins	1.22%	2.04%	3.99%	9.73%	8.72%	4.52%	4.40%	5.03%	6.91%	6.97%	1.10%
No. of Equity Shares	270.46	270.46	270.48	270.48	270.48	270.48	319.53	319.53	319.53	319.53	319.53
Earning per Share (EPS)	₹ 1.5	₹ 2.2	₹ 4.1	₹ 9.7	₹ 9.6	₹ 4.9	₹ 4.5	₹ 6.7	₹ 11.9	₹ 13.4	₹ 2.2
EPS Growth %		46.64%	83.14%	137.43%	-0.20%	-49.48%	-7.49%	49.84%	76.73%	12.35%	-83.75%
Dividend per Share	₹ 1.3	₹ 1.3	₹ 1.3	₹ 1.3	₹ 1.3	₹ 1.6	₹ 1.6	₹ 1.8	₹ 2.0	₹ 2.0	-
Dividend Payout Ratio	85.88%	58.56%	31.98%	13.47%	13.50%	31.85%	34.43%	25.94%	16.78%	14.93%	0.00%
Retained Earnings	14.12%	41.44%	68.02%	86.53%	86.50%	68.15%	65.57%	74.06%	83.22%	85.07%	100.00%
# **Balance Sheet**											
Equity Share Capital	₹ 270.5	₹ 270.5	₹ 270.5	₹ 270.5	₹ 270.5	₹ 270.5	₹ 319.6	₹ 319.6	₹ 319.6	₹ 319.6	
Reserves	₹ 14,048.4	₹ 11,362.9	₹ 12,944.1	₹ 16,129.4	₹ 18,035.0	₹ 19,295.5	₹ 22,002.7	₹ 22,122.0	₹ 28,467.9	₹ 32,035.7	
Borrowings	₹ 40,606.7	₹ 38,848.6	₹ 48,815.4	₹ 48,589.2	₹ 48,506.0	₹ 51,936.2	₹ 46,708.0	₹ 51,195.1	₹ 52,923.0	₹ 53,689.5	
Other Liabilities	₹ 20,259.8	₹ 19,574.5	₹ 20,799.3	₹ 16,902.7	₹ 17,261.9	₹ 18,171.7	₹ 29,624.6	₹ 38,913.3	₹ 46,385.7	₹ 53,009.7	
Total Liabilties	**₹ 75,185.3**	**₹ 70,056.5**	**₹ 82,829.3**	**₹ 81,891.8**	**₹ 84,073.4**	**₹ 89,673.9**	**₹ 98,654.8**	**₹ 1,12,550.0**	**₹ 1,28,096.1**	**₹ 1,39,054.4**	
Fixed Assets Net Block	₹ 44,725.7	₹ 36,413.7	₹ 46,594.8	₹ 44,656.3	₹ 44,304.9	₹ 47,666.4	₹ 52,179.2	₹ 57,389.4	₹ 61,746.7	₹ 67,209.6	
Capital Work in Progress	₹ 3,323.2	₹ 1,344.9	₹ 2,177.9	₹ 1,652.6	₹ 2,575.7	₹ 1,611.5	₹ 3,270.3	₹ 4,635.1	₹ 5,376.4	₹ 11,561.3	
Investments	₹ 3,444.6	₹ 11,785.4	₹ 11,873.0	₹ 12,428.9	₹ 13,541.9	₹ 14,534.8	₹ 13,149.1	₹ 14,160.3	₹ 16,669.7	₹ 16,316.0	
Other Assets	₹ 14,800.3	₹ 14,935.7	₹ 15,797.6	₹ 17,556.2	₹ 16,711.9	₹ 17,588.8	₹ 17,100.0	₹ 19,513.2	₹ 22,201.9	₹ 22,994.3	
Total Non Current Assets	**₹ 66,293.8**	**₹ 64,479.7**	**₹ 76,443.3**	**₹ 76,294.0**	**₹ 77,134.3**	**₹ 81,401.5**	**₹ 85,698.5**	**₹ 95,698.0**	**₹ 1,05,994.6**	**₹ 1,18,081.2**	
Receivables	₹ 5,564.0	₹ 3,540.2	₹ 3,832.1	₹ 2,788.9	₹ 4,445.3	₹ 4,425.9	₹ 5,200.1	₹ 5,979.7	₹ 6,952.2	₹ 7,401.7	
Inventory	₹ 1,844.2	₹ 1,373.4	₹ 1,599.6	₹ 1,623.1	₹ 1,706.4	₹ 1,752.4	₹ 1,885.6	₹ 4,231.5	₹ 3,942.9	₹ 4,419.6	
Cash & Bank	₹ 1,483.5	₹ 663.2	₹ 954.3	₹ 1,185.8	₹ 787.5	₹ 2,094.2	₹ 5,870.7	₹ 6,640.7	₹ 11,206.5	₹ 9,151.9	
Total Current Assets	**₹ 8,891.6**	**₹ 5,576.8**	**₹ 6,386.0**	**₹ 5,597.8**	**₹ 6,939.1**	**₹ 8,272.4**	**₹ 12,956.4**	**₹ 16,852.0**	**₹ 22,101.6**	**₹ 20,973.2**	
Total Assets	**₹ 75,185.3**	**₹ 70,056.5**	**₹ 82,829.3**	**₹ 81,891.8**	**₹ 84,073.4**	**₹ 89,673.9**	**₹ 98,654.8**	**₹ 1,12,550.0**	**₹ 1,28,096.1**	**₹ 1,39,054.4**	
check	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	
# **Cash Flow Statements**											
Cash From Operating Activities	₹ 5,980.9	₹ 7,415.1	₹ 7,014.2	₹ 6,363.9	₹ 4,573.8	₹ 7,375.3	₹ 8,345.1	₹ 6,692.7	₹ 7,165.6	₹ 12,596.1	
Cash From Investing Activities	(₹ 3,865.2)	(₹ 1,805.2)	(₹ 7,372.7)	(₹ 1,511.7)	(₹ 272.3)	(₹ 492.9)	₹ 993.3	(₹ 6,250.5)	(₹ 7,263.1)	(₹ 9,027.1)	
Cash From Financing Activities	(₹ 2,238.6)	(₹ 6,183.5)	₹ 937.3	(₹ 4,726.3)	(₹ 5,184.5)	(₹ 5,109.6)	(₹ 7,602.9)	(₹ 1,183.2)	₹ 1,340.8	(₹ 4,497.4)	
Net Cash Flow	**(₹ 122.9)**	**(₹ 573.6)**	**₹ 578.8**	**₹ 125.9**	**(₹ 883.0)**	**₹ 1,772.9**	**₹ 1,735.6**	**(₹ 740.9)**	**₹ 1,243.3**	**(₹ 928.4)**	

TATA POWER CO.
(INE245A01021)

TATA POWER

Common Size Income Statement -TATA POWER COMPANY LTD										
Particulars	**Mar-15**	**Mar-16**	**Mar-17**	**Mar-18**	**Mar-19**	**Mar-20**	**Mar-21**	**Mar-22**	**Mar-23**	**Mar-24**
Sales	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**
Raw Material Cost	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Change in Inventory	-0.36%	-0.10%	-0.08%	0.03%	-0.07%	0.05%	0.00%	0.59%	-0.13%	0.15%
Power and Fuel	49.55%	50.87%	53.35%	48.69%	56.32%	50.90%	59.65%	79.67%	109.28%	117.84%
Other Mfr. Exp	17.58%	9.37%	5.12%	6.08%	6.12%	5.99%	7.54%	11.74%	14.91%	15.70%
Employee Cost	5.02%	4.09%	4.00%	4.39%	4.46%	4.59%	7.19%	11.11%	11.32%	12.67%
Selling and admin	8.40%	1.70%	1.43%	1.52%	1.39%	1.20%	1.56%	2.17%	3.03%	3.03%
Other Expenses	0.34%	15.40%	1.84%	12.41%	11.45%	3.84%	0.81%	2.43%	2.39%	1.89%
Other Income	3.14%	12.09%	3.86%	19.60%	21.39%	6.79%	5.28%	7.40%	16.49%	10.17%
Depreciation	6.47%	4.91%	5.82%	6.98%	7.12%	7.84%	8.17%	9.29%	10.24%	11.27%
Interest	11.01%	9.63%	10.02%	11.20%	12.41%	13.38%	11.94%	11.49%	13.01%	13.79%
Profit before tax	4.42%	3.81%	4.32%	8.25%	10.99%	5.83%	5.78%	7.55%	16.24%	17.06%
Tax	3.20%	2.03%	1.04%	0.48%	3.24%	1.91%	1.49%	1.13%	4.90%	4.32%
Net profit	0.50%	1.97%	2.67%	7.17%	7.01%	3.03%	3.36%	5.18%	9.93%	11.00%
Dividend Amount	1.05%	1.05%	1.05%	1.05%	1.05%	1.25%	1.47%	1.66%	1.90%	1.90%

Common Size Balance Sheet -TATA POWER COMPANY LTD										
Particulars	**Mar-15**	**Mar-16**	**Mar-17**	**Mar-18**	**Mar-19**	**Mar-20**	**Mar-21**	**Mar-22**	**Mar-23**	**Mar-24**
Total Liability	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**
Equity Share Capital	0.36%	0.39%	0.33%	0.33%	0.32%	0.30%	0.32%	0.28%	0.25%	0.23%
Reserves	18.69%	16.22%	15.63%	19.70%	21.45%	21.52%	22.30%	19.66%	22.22%	23.04%
Borrowings	54.01%	55.45%	58.93%	59.33%	57.69%	57.92%	47.34%	45.49%	41.32%	38.61%
Other Liabilities	26.95%	27.94%	25.11%	20.64%	20.53%	20.26%	30.03%	34.57%	36.21%	38.12%
Total Assets	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**
Fixed Assets Net Block	59.49%	51.98%	56.25%	54.53%	52.70%	53.16%	52.89%	50.99%	48.20%	48.33%
Capital Work in Progress	4.42%	1.92%	2.63%	2.02%	3.06%	1.80%	3.31%	4.12%	4.20%	8.31%
Investments	4.58%	16.82%	14.33%	15.18%	16.11%	16.21%	13.33%	12.58%	13.01%	11.73%
Other Assets	19.69%	21.32%	19.07%	21.44%	19.88%	19.61%	17.33%	17.34%	17.33%	16.54%
Receivables	7.40%	5.05%	4.63%	3.41%	5.29%	4.94%	5.27%	5.31%	5.43%	5.32%
Inventory	2.45%	1.96%	1.93%	1.98%	2.03%	1.95%	1.91%	3.76%	3.08%	3.18%
Cash & Bank	1.97%	0.95%	1.15%	1.45%	0.94%	2.34%	5.95%	5.90%	8.75%	6.58%

TATA POWER CO.
(INE245A01021)

Ratio Analysis- TATA POWER COMPANY LTD

Years	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24	Trend	Mean	Median
Sales Growth		-12.20%	-6.46%	-2.71%	11.33%	-2.49%	12.24%	30.92%	28.71%	11.50%		7.87%	11.33%
EBITDA Growth		-16.20%	9.82%	31.16%	15.49%	-11.42%	-4.29%	9.44%	39.42%	6.66%		8.90%	9.44%
EBIT Growth		-12.86%	6.61%	35.71%	20.34%	-17.95%	-7.76%	7.45%	53.71%	5.46%		10.08%	6.61%
Net Profit Growth		46.64%	83.15%	137.43%	-0.20%	-49.48%	9.28%	49.84%	76.73%	12.35%		40.64%	46.64%
Dividend Growth		0.00%	0.00%	0.00%	0.00%	19.23%	0.00%	12.90%	14.29%	0.00%		5.16%	0.00%
Gross Margin	27.49%	26.61%	23.83%	25.99%	24.71%	29.16%	23.60%	20.03%	17.33%	20.16%		23.89%	24.27%
EBITDA Margin	21.90%	20.90%	24.54%	33.09%	34.32%	31.18%	26.59%	22.23%	24.08%	23.03%		26.19%	24.31%
EBIT Margin	15.43%	15.31%	17.45%	24.35%	26.32%	22.14%	18.20%	14.93%	17.83%	16.87%		18.88%	17.64%
EBT Margin	4.42%	4.34%	5.26%	10.33%	12.36%	6.72%	5.93%	5.92%	9.90%	9.33%		7.45%	6.33%
Net Profit Margin	1.22%	2.04%	3.99%	9.73%	8.72%	4.52%	4.40%	5.03%	6.91%	6.97%		5.35%	4.78%
Sales Expenses %Sales	8.74%	19.48%	3.99%	17.44%	14.44%	5.81%	2.44%	3.61%	3.30%	2.69%		8.19%	4.90%
Depreciation %Sales	6.47%	5.59%	7.09%	8.74%	8.01%	9.04%	8.39%	7.29%	6.24%	6.16%		7.30%	7.19%
Operating Income %Sales	15.43%	15.31%	17.45%	24.35%	26.32%	22.14%	18.20%	14.93%	17.83%	16.87%		18.88%	17.64%
Return on Capital employed	9.44%	8.95%	7.76%	10.05%	11.77%	9.02%	8.62%	8.68%	12.03%	12.05%		9.84%	9.23%
Retained Earning %	14.12%	41.44%	68.02%	86.53%	86.50%	68.15%	65.57%	74.06%	83.22%	85.07%		67.27%	71.10%
Return on Equity %	2.86%	5.16%	8.32%	15.92%	14.23%	6.73%	6.44%	9.61%	13.23%	13.23%		9.57%	8.96%
Self Sustained Growth Rate	0.40%	2.14%	5.66%	13.78%	12.31%	4.59%	4.23%	7.11%	11.01%	11.25%		7.25%	6.39%
Interest Coverage Ratio	1.40x	1.40x	1.43x	1.74x	1.89x	1.44x	1.48x	1.66x	2.25x	2.24x		1.69x	1.57x
Debtors Turnover Ratio	6.04x	8.33x	7.20x	9.62x	6.72x	6.58x	6.29x	7.16x	7.93x	8.30x		7.42x	7.18x
Creditors Turnover Ratio	1.66x	1.51x	1.33x	1.59x	1.73x	1.60x	1.10x	1.10x	1.19x	1.16x		1.40x	1.42x
Inventory Turnover Ratio	18.22x	21.48x	17.25x	16.54x	17.51x	16.63x	17.34x	10.12x	13.98x	13.90x		16.30x	16.94x
Fixed Asset Turnover Ratio	0.75x	0.81x	0.59x	0.60x	0.67x	0.61x	0.63x	0.75x	0.89x	0.91x		0.72x	0.71x
Capital Turnover Ratio	2.35x	2.54x	2.09x	1.64x	1.63x	1.49x	1.47x	1.91x	1.91x	1.90x		1.89x	1.90x
Debtors Days	60	44	51	38	54	55	58	51	46	44		50	51
Payable Days	220	242	275	230	211	228	331	332	307	315		269	259
Inventory Days	20	17	21	22	21	22	21	36	26	26		23	22
Cash Conversion Cycle	-140	-181	-203	-170	-136	-150	-252	-245	-235	-245		-196	-192
CFO/Sales	17.80%	25.14%	25.43%	23.71%	15.31%	25.31%	25.52%	15.63%	13.00%	20.50%		20.74%	22.10%
CFO/Total Assets	7.95%	10.58%	8.47%	7.77%	5.44%	8.22%	8.46%	5.95%	5.59%	9.06%		7.75%	8.09%
CFO/Total Debt	14.73%	19.09%	14.37%	13.10%	9.43%	14.20%	17.87%	13.07%	13.54%	23.46%		15.29%	14.28%

TATA POWER CO.
(INE245A01021)

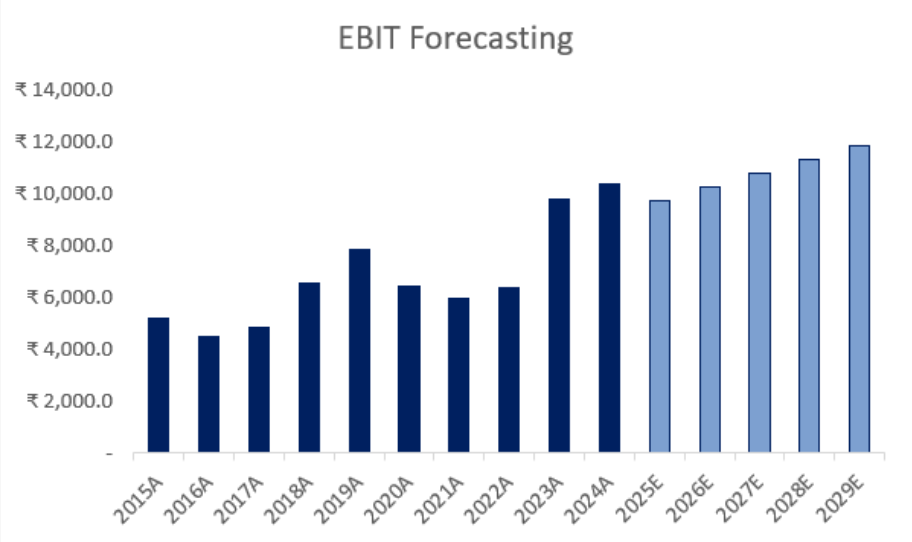
TATA POWER

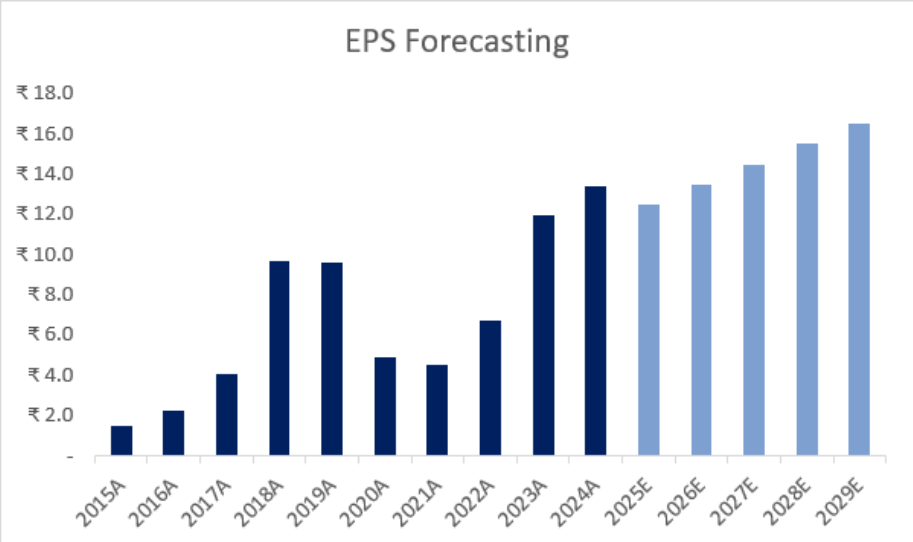
TATA POWER COMPANY LTD - EBIT Forecasting

Year Weight	Year	EBIT	EBIT Growth
1	2015A	₹ 5,183.1	
2	2016A	₹ 4,516.5	-12.86%
3	2017A	₹ 4,815.1	6.61%
4	2018A	₹ 6,534.3	35.71%
5	2019A	₹ 7,863.3	20.34%
6	2020A	₹ 6,451.7	-17.95%
7	2021A	₹ 5,950.9	-7.76%
8	2022A	₹ 6,394.2	7.45%
9	2023A	₹ 9,828.7	53.71%
10	2024A	₹ 10,365.2	5.46%
11	2025E	₹ 9,742.2	-6.01%
12	2026E	₹ 10,278.9	5.51%
13	2027E	₹ 10,815.7	5.22%
14	2028E	₹ 11,352.4	4.96%
15	2029E	₹ 11,889.1	4.73%

TATA POWER COMPANY LTD - Earning per Share (EPS) Forecasting

Year Weight	Year	EPS	EPS Growth
1	2015A	₹ 1.5	
2	2016A	₹ 2.2	46.64%
3	2017A	₹ 4.1	83.14%
4	2018A	₹ 9.7	137.43%
5	2019A	₹ 9.6	-0.20%
6	2020A	₹ 4.9	-49.48%
7	2021A	₹ 4.5	-7.49%
8	2022A	₹ 6.7	49.84%
9	2023A	₹ 11.9	76.73%
10	2024A	₹ 13.4	12.35%
11	2025E	₹ 12.5	-7.03%
12	2026E	₹ 13.5	8.18%
13	2027E	₹ 14.5	7.56%
14	2028E	₹ 15.5	7.03%
15	2029E	₹ 16.5	6.57%





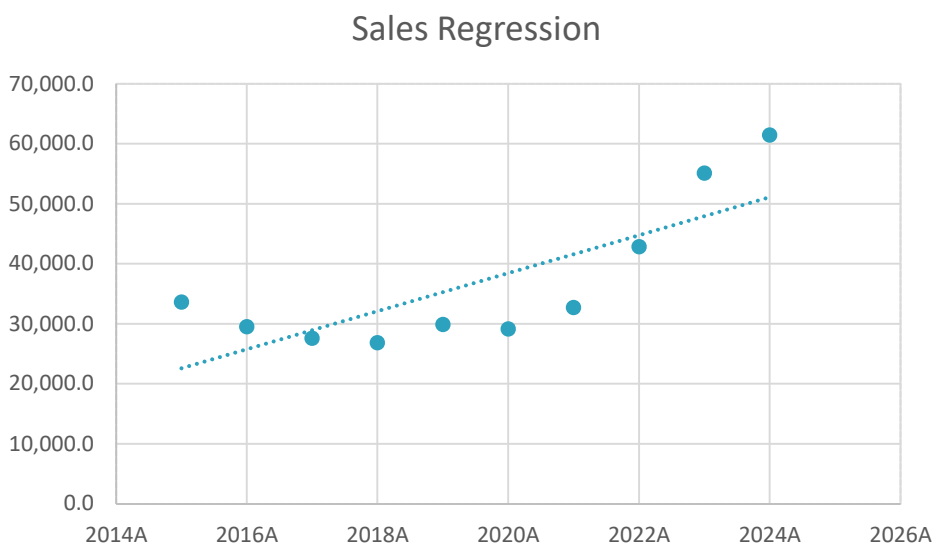
TATA POWER CO.
(INE245A01021)

TATA POWER COMPANY LTD

Year Weight	Year	Sales	Sales Growth
1	2015A	33,592.8	
2	2016A	29,494.3	-12.20%
3	2017A	27,587.6	-6.46%
4	2018A	26,840.3	-2.71%
5	2019A	29,881.1	11.33%
6	2020A	29,136.4	-2.49%
7	2021A	32,703.3	12.24%
8	2022A	42,815.7	30.92%
9	2023A	55,109.1	28.71%
10	2024A	61,448.9	11.50%
11	2025E	54,294.0	-11.64%
12	2026E	57,463.7	5.84%
13	2027E	60,633.4	5.52%
14	2028E	63,803.0	5.23%
15	2029E	66,972.7	4.97%

11	2025E	54,294.0	-11.64%
12	2026E	57,463.7	5.84%
13	2027E	60,633.4	5.52%
14	2028E	63,803.0	5.23%
15	2029E	66,972.7	4.97%

Arithmetic Growth	7.87%
Geometric Growth	6.23%
Standard Deviation	15.16%



TATA POWER CO.
(INE245A01021)

TATA POWER

Weighted Average Cost of Capital

All figures are in INR unless stated otherwise

Peer comps

Name of the comp	Country	Total Debt	Total Equity	Tax rate [1]	Debt / Equity	Debt / Capital	Levered Beta [2]	Unlevered Beta [3]
Tata Power	India	58,313.9	1,26,727.1	30.00%	46.02%	31.51%	1.65	1.25
NTPC	India	2,42,009.5	3,29,541.2	30.00%	73.44%	42.34%	1.15	0.76
Power Grid	India	1,22,567.5	2,93,712.6	30.00%	41.73%	29.44%	0.94	0.73
Adani Power	India	37,705.0	2,00,772.9	30.00%	18.78%	15.81%	1.01	0.89
JSW Energy	India	30,853.1	1,10,887.1	30.00%	27.82%	21.77%	0.67	0.56
			Average	30.00%	41.56%	28.18%	1.09	0.84
			Median	30.00%	41.73%	29.44%	1.01	0.76

Cost of Debt

Pre-tax Cost of Debt	7.80%
Tax Rate	30.00%
Post Tax Cost of Debt	5.46%

Cost of Equity

Risk Free Rate	6.89%
Equity Rish Premium	8.44%
Levered Beta [4]	0.97
Cost of Equity	15.09%

Capital Structure

		Current	Target
Total Debt	58,313.9	31.51%	28.18%
Market Capitalizatic	1,26,727.1	68.49%	71.82%
Total Capital	1,85,041.1	100.00%	100.00%
Debt / Equity		46.02%	39.23%

Levered Beta

Comps Median Unlevered Beta	0.76
Target Debt / Equity	39.23%
Tax Rate	30%
Levered Beta	0.97

Weighted Average Cost of Capital

Cost of Equity	15.09%
Equity Weight	71.82%
Cost of Debt	5.46%
Debt Weight	28.18%
WACC	**12.37%**

Notes:

1. Tax Rate Considered as Marginal Tax Rate for the Country

2. Levered Beta is based on 2 years Weekly data

*3. unlevered Beta = levered Beta/(1+(1-Tax Rate)*Debt/Equity)*

4. levered Beta = Unlevered Beta(1+(1-Tax Rate)*Debt/Equity)*

TATA POWER CO.
(INE245A01021)

Regression Beta - 2 Years Weekly

Tata Power Weekly Return			Nifty Weekly Return	
Date	**Closing Price**	**Return**	**Closing Price**	**Return**
08-01-2023	206.5		17,956.6	
15-01-2023	207.2	0.36%	18,027.7	0.40%
22-01-2023	202.4	-2.34%	17,604.4	-2.35%
29-01-2023	205.3	1.46%	17,854.1	1.42%
05-02-2023	204.8	-0.24%	17,856.5	0.01%
12-02-2023	204.7	-0.05%	17,944.2	0.49%
19-02-2023	202.3	-1.17%	17,465.8	-2.67%
26-02-2023	207.8	2.69%	17,594.4	0.74%
05-03-2023	208.8	0.48%	17,412.9	-1.03%
12-03-2023	205.2	-1.72%	17,100.1	-1.80%
19-03-2023	192.8	-6.04%	16,945.1	-0.91%
26-03-2023	190.3	-1.30%	17,359.8	2.45%
02-04-2023	195.3	2.63%	17,599.2	1.38%
09-04-2023	196.3	0.54%	17,828.0	1.30%
16-04-2023	195.7	-0.31%	17,624.1	-1.14%
23-04-2023	201.1	2.76%	18,065.0	2.50%
30-04-2023	200.2	-0.47%	18,069.0	0.02%
07-05-2023	207.1	3.45%	18,314.8	1.36%
14-05-2023	205.9	-0.58%	18,203.4	-0.61%
21-05-2023	212.2	3.08%	18,499.4	1.63%
28-05-2023	215.7	1.63%	18,534.1	0.19%
04-06-2023	221.2	2.57%	18,563.4	0.16%
11-06-2023	222.3	0.47%	18,826.0	1.41%
18-06-2023	218.3	-1.78%	18,665.5	-0.85%
25-06-2023	221.9	1.63%	19,189.1	2.80%
02-07-2023	228.0	2.77%	19,331.8	0.74%
09-07-2023	221.1	-3.05%	19,564.5	1.20%
16-07-2023	217.4	-1.65%	19,745.0	0.92%
23-07-2023	234.7	7.93%	19,646.1	-0.50%
30-07-2023	235.7	0.43%	19,517.0	-0.66%
06-08-2023	236.2	0.23%	19,428.3	-0.45%
13-08-2023	230.1	-2.58%	19,310.2	-0.61%
20-08-2023	245.6	6.74%	19,265.8	-0.23%
27-08-2023	255.4	3.97%	19,435.3	0.88%
03-09-2023	268.9	5.29%	19,820.0	1.98%
10-09-2023	264.0	-1.82%	20,192.4	1.88%
17-09-2023	257.1	-2.60%	19,674.3	-2.57%
24-09-2023	262.3	2.02%	19,638.3	-0.18%
01-10-2023	258.8	-1.35%	19,653.5	0.08%
08-10-2023	254.1	-1.80%	19,751.1	0.50%
15-10-2023	247.4	-2.64%	19,542.7	-1.06%
22-10-2023	238.2	-3.74%	19,047.3	-2.53%
29-10-2023	244.6	2.71%	19,230.6	0.96%
05-11-2023	251.4	2.78%	19,425.4	1.01%
12-11-2023	262.7	4.47%	19,731.8	1.58%
19-11-2023	258.2	-1.71%	19,794.7	0.32%
26-11-2023	276.0	6.91%	20,267.9	2.39%
03-12-2023	323.6	17.23%	20,969.4	3.46%
10-12-2023	333.2	2.98%	21,456.7	2.32%
17-12-2023	326.7	-1.97%	21,349.4	-0.50%
24-12-2023	332.2	1.68%	21,731.4	1.79%
31-12-2023	340.8	2.59%	21,710.8	-0.09%
07-01-2024	357.8	4.99%	21,894.6	0.85%
14-01-2024	348.7	-2.54%	21,622.4	-1.24%
21-01-2024	365.1	4.72%	21,352.6	-1.25%
28-01-2024	389.8	6.77%	21,853.8	2.35%
04-02-2024	392.1	0.59%	21,782.5	-0.33%
11-02-2024	376.3	-4.03%	22,040.7	1.19%
18-02-2024	378.4	0.56%	22,212.7	0.78%
25-02-2024	377.4	-0.26%	22,338.8	0.57%
03-03-2024	425.3	12.68%	22,493.6	0.69%
10-03-2024	380.8	-10.46%	22,023.4	-2.09%
17-03-2024	390.7	2.61%	22,096.8	0.33%
24-03-2024	394.2	0.90%	22,326.9	1.04%
31-03-2024	414.6	5.18%	22,513.7	0.84%
07-04-2024	437.0	5.39%	22,519.4	0.03%
14-04-2024	428.1	-2.03%	22,147.0	-1.65%
21-04-2024	436.9	2.06%	22,420.0	1.23%
28-04-2024	454.8	4.09%	22,475.9	0.25%
05-05-2024	414.9	-8.77%	22,055.2	-1.87%
12-05-2024	436.3	5.17%	22,466.1	1.86%
19-05-2024	447.2	2.50%	22,957.1	2.19%
26-05-2024	436.8	-2.34%	22,530.7	-1.86%
02-06-2024	443.6	1.56%	23,290.2	3.37%
09-06-2024	448.7	1.15%	23,465.6	0.75%
16-06-2024	438.7	-2.22%	23,501.1	0.15%
23-06-2024	440.6	0.43%	24,010.6	2.17%
30-06-2024	440.0	-0.15%	24,323.9	1.30%
07-07-2024	434.1	-1.34%	24,502.2	0.73%
14-07-2024	414.2	-4.58%	24,530.9	0.12%
21-07-2024	444.7	7.38%	24,834.9	1.24%
28-07-2024	460.4	3.52%	24,717.7	-0.47%
04-08-2024	417.8	-9.25%	24,367.5	-1.42%
11-08-2024	413.7	-0.98%	24,541.2	0.71%
18-08-2024	418.0	1.04%	24,823.2	1.15%
25-08-2024	434.7	4.00%	25,235.9	1.66%
01-09-2024	417.0	-4.06%	24,852.2	-1.52%
08-09-2024	441.8	5.95%	25,356.5	2.03%
15-09-2024	444.2	0.53%	25,791.0	1.71%
22-09-2024	485.5	9.31%	26,179.0	1.50%
29-09-2024	466.7	-3.88%	25,014.6	-4.45%
06-10-2024	461.2	-1.18%	24,964.3	-0.20%
13-10-2024	453.6	-1.65%	24,854.1	-0.44%
20-10-2024	422.1	-6.93%	24,180.8	-2.71%
27-10-2024	445.5	5.53%	24,304.4	0.51%
03-11-2024	432.8	-2.85%	24,148.2	-0.64%
10-11-2024	404.7	-6.49%	23,532.7	-2.55%
17-11-2024	413.8	2.25%	23,907.3	1.59%
24-11-2024	414.2	0.10%	24,131.1	0.94%
01-12-2024	439.7	6.17%	24,677.8	2.27%
08-12-2024	428.5	-2.56%	24,768.3	0.37%
15-12-2024	401.1	-6.38%	23,587.5	-4.77%
22-12-2024	399.0	-0.52%	23,813.4	0.96%
29-12-2024	396.7	-0.59%	23,990.2	0.74%

Beta Drifting	
Levered Raw Beta	1.65
Raw Beta Weight	75.00%
Market Beta	1.00
Market Beta Weight	25.00%
Adjusted Beta	1.49

TATA POWER CO.
(INE245A01021)

TATA POWER

	Calculation of ROIC						
	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Calculation of Current Assets							
Inventories	1,623.0	1,706.0	1,752.0	1,886.0	4,232.0	3,943.0	4,420.0
Trade receivables	2,789.0	4,445.0	4,426.0	5,200.0	5,980.0	6,952.0	7,402.0
Loans n Advances	490.0	503.0	552.0	609.0	887.0	1,079.0	1,126.0
Other asset items	17,066.0	16,209.0	17,037.0	16,491.0	18,627.0	21,123.0	21,868.0
Total Current Assets	**21,968.0**	**22,863.0**	**23,767.0**	**24,186.0**	**29,726.0**	**33,097.0**	**34,816.0**
Calculation of Current Liabilities							
Trade Payables	5,610.0	5,481.0	5,095.0	7,146.0	10,460.0	7,407.0	9,321.0
Advance from Customers	559.0	485.0	782.0	1,209.0	1,180.0	2,458.0	2,197.0
Other liability items	8,718.0	9,129.0	9,962.0	18,342.0	23,687.0	31,104.0	35,514.0
Total Current Assets	**14,887.0**	**15,095.0**	**15,839.0**	**26,697.0**	**35,327.0**	**40,969.0**	**47,032.0**
# **Net Working Capital**	**7,081.0**	**7,768.0**	**7,928.0**	**(2,511.0)**	**(5,601.0)**	**(7,872.0)**	**(12,216.0)**
Calculation of Non-Current Assets							
Land	974.0	1,032.0	2,071.0	2,186.0	2,284.0	2,672.0	3,352.0
Building	2,906.0	2,938.0	3,058.0	3,826.0	4,043.0	4,432.0	4,503.0
Plant Machinery	43,914.0	44,924.0	47,425.0	48,607.0	52,664.0	55,799.0	59,919.0
Equipments	5,812.0	6,364.0	6,967.0	11,790.0	15,200.0	18,485.0	22,097.0
Furniture n fittings	122.0	120.0	118.0	134.0	144.0	167.0	187.0
Railway sidings	99.0	103.0	104.0	-	-	-	-
Vehicles	250.0	245.0	235.0	228.0	225.0	247.0	300.0
Intangible Assets	1,666.0	1,654.0	1,646.0	1,800.0	1,864.0	1,865.0	1,803.0
Other fixed assets	4,265.0	4,233.0	5,441.0	5,584.0	5,876.0	6,229.0	6,519.0
Gross Block	**60,008.0**	**61,613.0**	**67,065.0**	**74,155.0**	**82,300.0**	**89,896.0**	**98,680.0**
Accumulated Depreciation	(15,352.0)	(17,308.0)	(19,398.0)	(21,976.0)	(24,911.0)	(28,150.0)	(31,470.0)
# **Net Non-Current Assets**	**75,360.0**	**78,921.0**	**86,463.0**	**96,131.0**	**1,07,211.0**	**1,18,046.0**	**1,30,150.0**
# **Invested Capital**	**82,441.0**	**86,689.0**	**94,391.0**	**93,620.0**	**1,01,610.0**	**1,10,174.0**	**1,17,934.0**
EBIT	**6,534.3**	**7,863.3**	**6,451.7**	**5,950.9**	**6,394.2**	**9,828.7**	**10,365.2**
# **ROIC**	**7.93%**	**9.07%**	**6.84%**	**6.36%**	**6.29%**	**8.92%**	**8.79%**

	Calculation of Reinvestment Rate						
	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Net Capex	3,610.0	3,533.0	2,190.0	1,787.0	7,233.0	7,606.0	13,187.0
Change in Working Capital		687.0	160.0	(10,439.0)	(3,090.0)	(2,271.0)	(4,344.0)
EBIT	6,534.3	7,863.3	6,451.7	5,950.9	6,394.2	9,828.7	10,365.2
Marginal Tax Rate	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%
EBIT(1-T)	4,900.7	5,897.4	4,838.7	4,463.2	4,795.6	7,371.5	7,773.9
Reinvestment		4,220.0	2,350.0	(8,652.0)	4,143.0	5,335.0	8,843.0
Reinvestment Rate		**71.56%**	**48.57%**	**-193.85%**	**86.39%**	**72.37%**	**113.75%**
					6 Year Average		**33.13%**
					6 Year Median		**71.96%**

	Calculation of Growth Rate						
	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Reinvestment Rate		71.56%	48.57%	-193.85%	86.39%	72.37%	113.75%
ROIC		9.07%	6.84%	6.36%	6.29%	8.92%	8.79%
Intrinsic Growth Rate		**6.49%**	**3.32%**	**-12.32%**	**5.44%**	**6.46%**	**10.00%**
					6 Year Average		**3.23%**
					6 Year Median		**5.95%**

TATA POWER CO.
(INE245A01021)

TATA POWER

Calculation of PV of FCFF	Mar-24A	Mar-25F	Mar-26F	Mar-27F	Mar-28F	Mar-29F
EBIT	10365.24	10981.61	11634.62	12326.47	13059.46	13836.04
Tax Rate	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%
EBIT(1-T)	7773.93	8236.204	8725.967	9244.853	9794.595	10377.03
less:Reinvestment Rate	71.96%	71.96%	71.96%	71.96%	71.96%	71.96%
Free Cash Flow to Firm (FCFF)	2179.423	2309.022	2446.327	2591.797	2745.917	2909.202
Mid Year Convention		0.5	1.5	2.5	3.5	4.5
Discounting Factor		0.942	0.835	0.741	0.657	0.583
PV of FCFF		**2174.745**	**2043.879**	**1920.889**	**1805.299**	**1696.665**

Expected Growth	5.95%	
Terminal Growth	6.30%	*(long term GDP Growth)*
WACC	12.73%	

Calculation of Terminal Value	
FCFF (n+1)	3082.20
WACC	12.73%
Terminal Growth Rate	6.30%
Terminal Value	**47934.63**

Calculation of Equity Value Per Share	
PV of FCFF	9641.48
PV of Terminal Value	27955.78
Value of Operating Assets	**37597.25**
Add: Cash	9151.91
Less: Debt	(37,392.00)
Value of Equity	**9357.16**
No. of Shares	319.53
Equity Value per Share	**29.28**
Share Price	397
Discount/Premium	12.56x

Sensitivity Analysis	10.00%	12.73%	14.00%	16.00%
4.00%	39,600.8	30,232.0	27,617.0	24,621.1
5.00%	45,592.6	32,895.8	29,614.3	25,982.9
6.30%	58,224.1	37,597.3	32,986.4	28,173.0
7.00%	69,560.0	41,012.4	35,320.9	29,614.3
8.00%	99,519.3	47,644.8	39,600.8	32,110.9

Sensitivity Analysis- Equity Value	10.00%	12.73%	14.00%	16.00%
4.00%	35.6	6.2	-1.9	-11.3
5.00%	54.3	14.6	4.3	-7.1
6.30%	93.8	29.3	14.9	-0.2
7.00%	129.3	40.0	22.2	4.3
7.00%	129.3	40.0	22.2	4.3

TATA POWER CO.
(INE245A01021)

Amount in Crores

Comparable Company Valuation

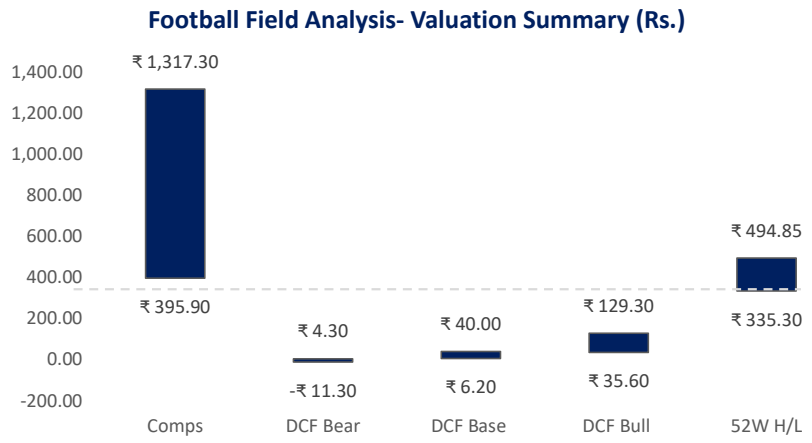
		Market Data					Financials			Valuation		
Company	Ticker	Share Price	Shares Outstanding	Equity Value	Net Debt	Enterprise Value	Revenue	EBITDA	Net Income	EV / Revenue	EV / EBITDA	P/E
Tata Power Co.	INE245A01021	367	319.53	1,17,315	49,162	1,66,477	63,489	14,866	4,403	2.6x	11.2x	26.6x
NTPC	INE733E01010	320	969.67	3,10,634	2,35,162	5,45,796	1,83,659	58,791	22,585	3.0x	9.3x	13.8x
Power Grid Corpn	INE752E01010	305	930.06	2,83,901	1,15,072	3,98,973	45,812	41,121	15,712	8.7x	9.7x	18.1x
Adani Power	INE814H01011	498	385.69	1,92,035	30,493	2,22,528	54,650	23,089	12,686	4.1x	9.6x	15.1x
Adani Green	INE364U01010	978	158.40	1,54,868	58,666	2,13,534	10,728	9,395	1,710	19.9x	22.7x	90.6x
NTPC Green	INE0ONG01011	121	842.63	1,01,891	17,572	1,19,463	1,963	1,825	345	60.9x	65.5x	295.6x
JSW Energy	INE121E01018	558	174.78	97,466	26,646	1,24,113	11,416	6,030	1,988	10.9x	20.6x	49.0x
Adani Energy Sol	INE931S01010	752	120.13	90,278	36,781	1,27,058	20,832	7,155	312	6.1x	17.8x	289.1x
NHPC Ltd	INE848E01016	78	1,004.50	78,461	30,588	1,09,049	9,690	7,108	3,417	11.3x	15.3x	23.0x
Torrent Power	INE424A01014	1,415	50.39	71,292	11,149	82,440	29,104	5,570	2,313	2.8x	14.8x	30.8x
High										60.9x	65.5x	295.6x
75th Percentile										11.2x	19.9x	80.2x
Average										**13.0x**	**19.7x**	**85.2x**
Median										**7.4x**	**15.1x**	**28.7x**
25th Percentile										3.2x	10.1x	19.3x
Low										2.6x	9.3x	13.8x

Tata Power Co. Comparable Valuation	EV / Revenue	EV / EBITDA	P/E
Implied Enterprise Value	4,70,078	2,24,055	1,75,675
Net Debt	49,162	49,162	49,162
Implied Market Value	4,20,916	1,74,893	1,26,513
Shares Outstanding	319.53	319.53	319.53
Implied Value per Share	**1,317.3**	**547.3**	**395.9**

Source: The Valuation School, Screener.in

Undervalued Undervalued Undervalued

TATA POWER CO.
(INE245A01021)



Football Field Analysis				
	Open Low	Low	Open High	High
Comps	395.9	395.9	1317.3	1317.3
DCF Bear	-11.3	-11.3	4.3	4.3
DCF Base	6.2	6.2	40	40
DCF Bull	35.6	35.6	129.3	129.3
52W H/L	335.3	335.3	494.85	494.85