

The Brighter Plan 2032

1. Decarbonisation & Air Emissions Control	KPIs	Base	Target	Remarks	Target	Remarks
		2012	2022		2032	
1. (a) Decarbonisation	1. Specific CO2 emission (gm/ kwh)	860.93	836.77	-2.81%	713.74	-17%
	a. Total Emission(MMT)	206.87	315.39	Includes all sources Coal, Gas, RE, Hydro	373.62	Includes all sources Coal, Gas, RE, Hydro
	b. GHG Emissions Sink Created (MMT)					
	c. Net GHG Emissions (MMT)					
	d. Gross Generation (BU)	240.31	376.91		523.47	
	e. Total Capacity (GW)	37	76.7		128	
	2. Net Energy Intensity (MJ/kWh)	10.56	10.31	-2%	9.29	-12%
	3. Non-Fossil based generation Capacity (%)		7.363 GW	10.00%	37 GW	30%
	4. Share of super/ ultra-super critical technologies out of total coal capacity (%)		23.98 GW	38%	45.7 GW	54%
1. (b) Air Emissions		2012	2022	Remarks (Reduction)	2032	Remarks (Reduction)
	5. Specific SO2 emissions (gm/ kwh)*	3.37	0.95	72%	0.700	79%
	a. Total SO2 emissions (MT)	810287	357953		366425	
	6. Specific NOx emissions (gm/ kwh)	1.98	1.400	29%	1.000	50%
	a. Total NOx emissions (MT)	476223	527509		371000	
	7. Specific PM emissions (gm/ kwh)	0.46	0.250	45%	0.180	61%
	a. Total PM emissions (MT)	109544	94198		66780	

FY 2020	FY 2021	FY2022	FY2023
869.9	838.0	841.6	840.70
252.4	263.9	304.1	336.5
	11.2	12.3	14.8
	263.2	303.4	335.7
290.2	314.1	360.5	399.3
62.1	65.8	69.0	72.3
10.5	10.11	10.08	10.01
7.24%	7.71%	8.09%	10.61%
26.18% (13.38 GW)	30.06 % (16.3 GW)	36%. (20.4 GW)	36% (21.06 GW)
FY 2020	FY 2021	FY2022	FY2023
4.41	4.94	4.5	4.43
1279366	1552253.67	1621348.84	1767481.60
2.11	1.93	1.78	1.65
612983	605812.203	640419.16	660768.9531
0.31	0.28	0.25	0.22
89247	88431.3271	91115.35	89294.96

2. Water and Biodiversity Conservation	KPIs	2012	2022	Remarks	2032	Remarks
2. (a) Water	8. Specific water consumption (l/kwh)	3.81	2.9	-24%	2.5	-34%
	a. Total Fresh Water Consumption (MCM)	626.39	1093.0		1308.675	
	b. Gross Generation (BU)	164.31	376.91		523.47	
	c. Total Capacity (GW)	2.69	76.7		128	
	9. Recycled Water Consumption (%)		100%		100%	
	10. Increase in fresh water availability through sustainable measures (%)	0.17 MCM (2018)	20%		70%	
2. (b) Biodiversit			2022	Remarks	2032	Remarks
	11. Wildlife/ Biodiversity conservation/ protection projects (No.)		15		25	
	12. Tree plantation (No.)		37 Million tress		47 Million tress	

FY 2020	FY 2021	FY2022	FY2023
2.93	2.90	2.76	2.69
849.4	910.22	997.37	1073.79
290	314	361	399.3
62.11	65.81	68.962	72.3
		97%	97%
0.19 MCM	12.182 MCM	6.926 MCM	4.58 MCM
FY 2020	FY 2021	FY2022	FY2023
10	16	16	16
35 Million tress	36 Million tress	37 Million tress	38 Million tress

3. Health and Safety	KPIs	2012	2022	Remarks	2032	Remarks
	13. Fatality (No.)	15	0		0	
	14. Frequency Rate (No.)	0.34	0.18	-47%	0.12	-65%
	15. Occupational disease rate	0	0		0	
	16. Employee Sickness Absence Rate (No. of days/ employee/ year)		below 8		below 2	

FY 2020	FY 2021	FY2022	FY2023
21	7	5	5
0.32	0.1	0.08	0.08
0	0	0	0
	4	3.34	12.82

4. Circular Economy	KPIs	2012	2022	Remarks	2032	Remarks
	17. Ash utilisation (%)	55.01%	100%		100%	
	18. Recycling of Waste (%)		100%	waste to be recycled/disposed	100%	waste to be recycled/disposed
	19. Cum. Biomass Co-firing (MT)		10,000 Tonnes		1 Million Tonnes	

FY 2020	FY 2021	FY2022	FY2023
76%	79.38%	81.67%	82.75%
		82%	51%
6500	28500	40386	97678

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FY 2020	FY 2021	FY2022	FY2023
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5. Communi  
Developme

20. Number of cumulative beneficiaries (no.)		8 million		18 million	
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6. Strong Finance &  
Ethics

	2022	Remarks	2032	Remarks
21. Market Share (%)	23%		25%	
22. Revenue from other Business Streams (Non-fossil based business (%))	15%	Important as how business is saved from climate change risks	25%	
a. Total Revenue (Rs. Crore)				
b. Revenue from Cons., Trading & Non-Fossil generation				
23. Adverse Cases of Business Ethics (No.)	0		0	

7. Sustainable  
Supply Chain

	2022	Remarks	2032	Remarks
24. Critical Suppliers Audited for ESG (%)	5% of vulnerable suppliers		30% of vulnerable suppliers	
a. No. of critical suppliers				
25. Capacity Building programmes (No. of beneficiaries)	100 Suppliers		1000 Suppliers	

6 million	7 Million	8 Million	9 Million
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FY 2020	FY 2021	FY2022	FY2023
22%	25.62%	24.28%	24.63%
7.95%	13.0%	13%	11%
95158	115483	134994	177977
7565		17283	19140
45	60	63	9

FY 2020	FY 2021	FY2022	FY2023
0	0.24%	0.23%	7.85%
	12516	13455	471
0	104	39	152