



**Ensuring Energy Security,
Fuelling Nation's Growth**

Investor Presentation



Outline of the Presentation



1 Company Overview & Sector Outlook

2 Key Growth Pointers

3 Energy Transition ensuring Energy Security

4 Operational Excellence

5 Robust Financials



NTPC - Vision, Mission and Core Values



Vision

To be the World's
Leading Power Company,
Energizing India's Growth



Mission

Provide Reliable Power and Related
Solutions in an Economical, Efficient and
Environment friendly manner,
driven by Innovation and Agility

Core Values

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INTEGRITY



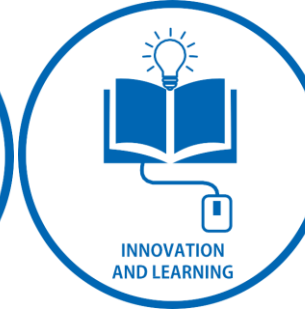
CUSTOMER FOCUS



ORGANISATIONAL
PRIDE



MUTUAL TRUST
AND RESPECT



INNOVATION
AND LEARNING



TOTAL QUALITY
AND SAFETY

Integrity

Customer
Focus

Organisational
Pride

Mutual Trust
& Respect

Innovation &
Learning

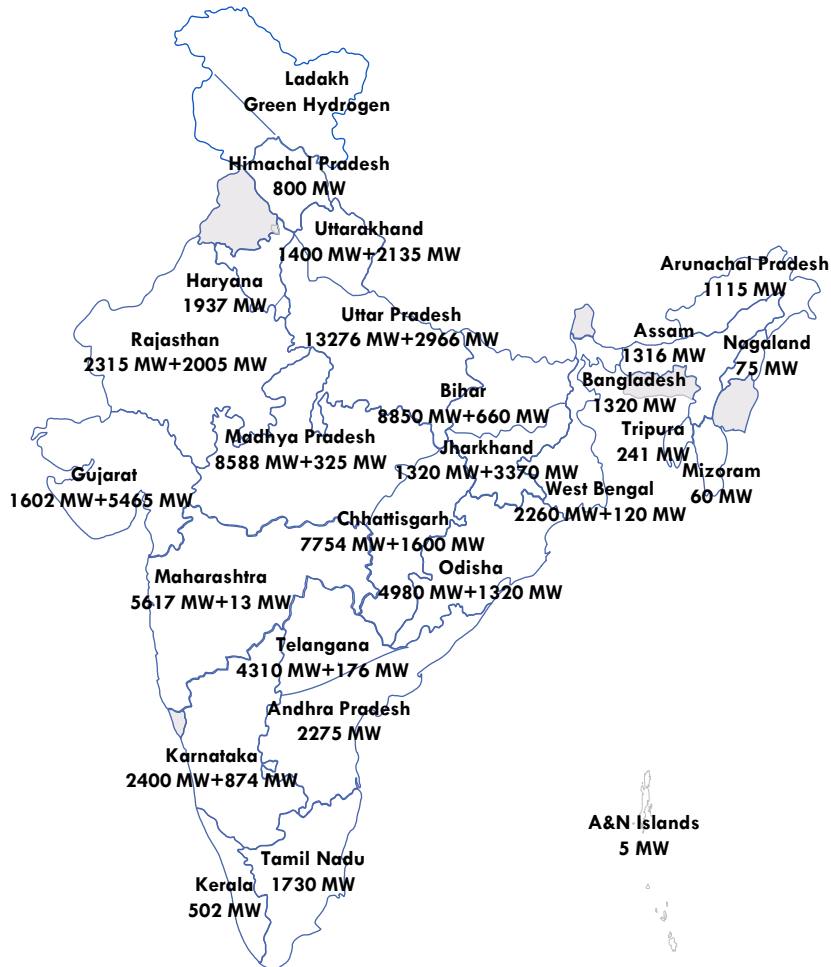
Total Quality
& Safety



Unparalleled Presence across the Nation

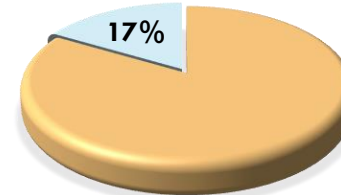


Present + Under Construction Capacity



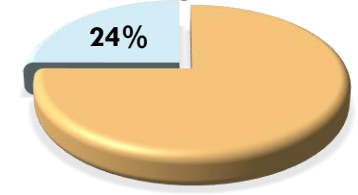
Maintaining Energy Leadership

Share of Installed Capacity
(as on 31 March, 2024)



Rest of India : 3,67,332 MW
NTPC (Group) : 74,638 MW

Share of Electricity Generated
(during FY24)



Rest of India : 1317 BU
NTPC (Group) : 422 BU

Installed Capacity as at 30.06.2024 : 76,048 MW

NTPC Owned	Stations	in MW	Mix %
Coal	27	53,850	70.81%
Gas/Liquid Fuel	7	4,017	5.28%
Hydro	1	800	1.05%
Renewables	17	501	0.66%
Sub-total	52	59,168	77.80%
JVs and Subs			
Coal	9	8,344	10.97%
Gas/Liquid Fuel	4	2,494	3.28%
Hydro	8	2,925	3.85%
Renewables	21	3,117	4.10%
Sub-total	42	16,880	22.20%
Total	94	76,048	100.00%

Map not to scale



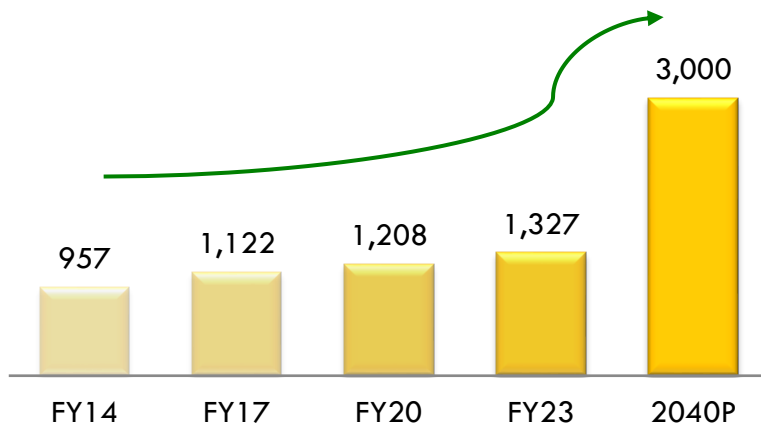
Strong Growth Drivers for Power Sector in India



Demand

- India's GDP is expected to grow significantly on the back of our **demographic strength** and India becoming a **Manufacturing Hub**
- India has low per capita consumption of electricity which is expected to rise to 3,000 kWh by 2040

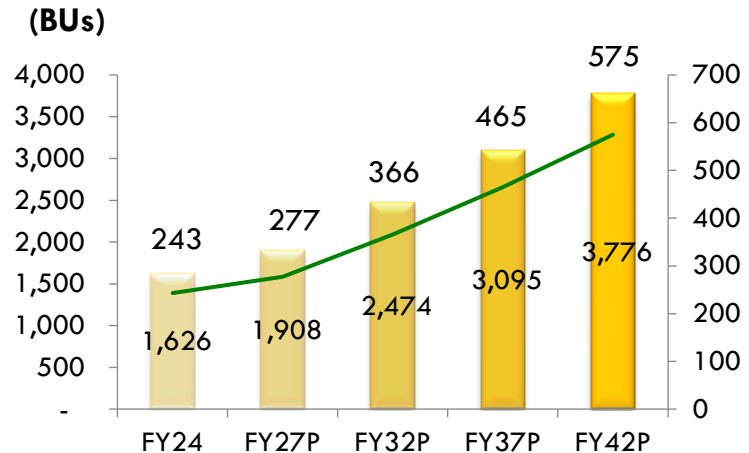
Increasing Per Capita Consumption (kWh/Year)



Supply

- Electricity requirement in India is expected to grow in tandem with GDP growth
- Both peak load demand and energy requirement are expected to rise at a healthy pace

Projected Energy requirement & Peak Load (GW)



Ensuring Energy Security Fuelling Nation's Growth



Largest Power Generator in India

Installed capacity of 76 GW

Operational Excellence

Consistent lead over All India in PLF
High Availability coupled with Efficiency

130 GW+ Capacity by 2032

4 GW added in FY24, 21 GW under construction & 26 GW under planning



Setting New Records

Highest Profit & Generation in FY24
Highest Realization of ₹1.57 Lakh crore

Commitment on RE Front

Plan to have 60 GW+ RE Capacity by 2032
Visible RE pipeline of 24 GW

Leapfrogging on ESG Front

ESG Strategy - Clearly defined KPIs & targets
Consistently progressing on all defined KPIs





Key Growth Pointers



Huge Capacity Addition Lined up



Ensuring Availability

Land

Water

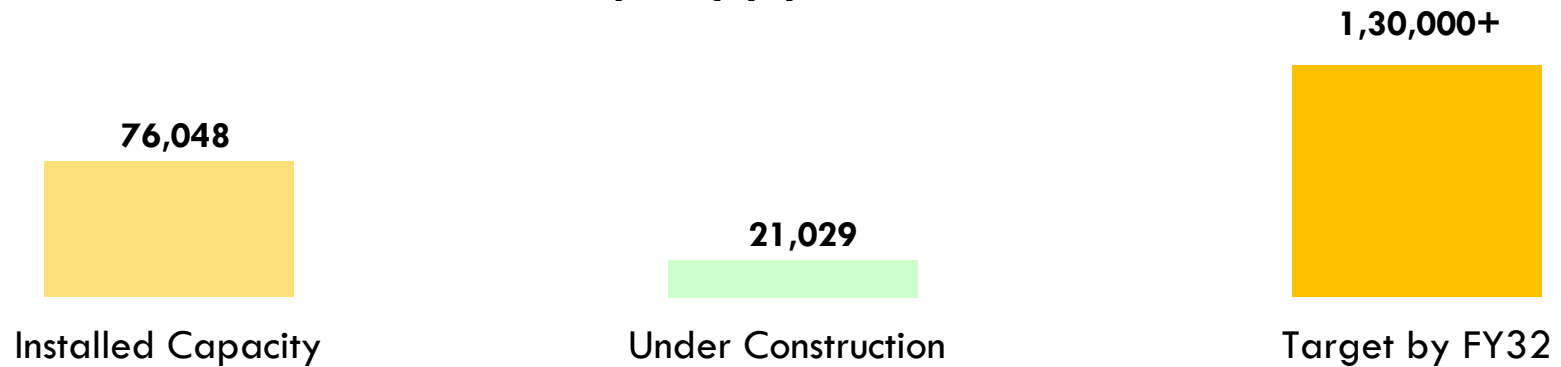
Fuel

EC/FC

PPAs

Investment Approval

Current Capacity pipeline (in MW)



Snapshot of Projects Under Construction

Fuel Mix	In MW
Coal	9,560
Hydro	2,255
RE	9,214
Total	21,029

Coal Technology	In MW
Ultra Super Critical	8,240
Super Critical	1,320
Total	9,560

Group Mix	In MW
NTPC	7,595
JV/Subs	13,434
Total	21,029



Visible Growth with Projects under Execution



Conventional Capacity Addition

7 GW in next 3 years

RE Capacity Addition

16 GW in next 3 years

Ensuring Nation's Energy Security

Thermal Ordering of 4.5 GW

Further 15.2 GW in next 2 fiscals



Coal Mining

34 MMT in FY24, growth of 48%

Produce 25% of own requirement by FY30

FGD Commissioning

54 GW in next 3 years

Estimated Capitalisation - ₹27,000 crore

Expanding CAPEX of NEEPCO & THDC

Likely to execute Non-fossil capacity of 12 GW by FY30 (Estimated Capitalisation ₹75,000 crore)



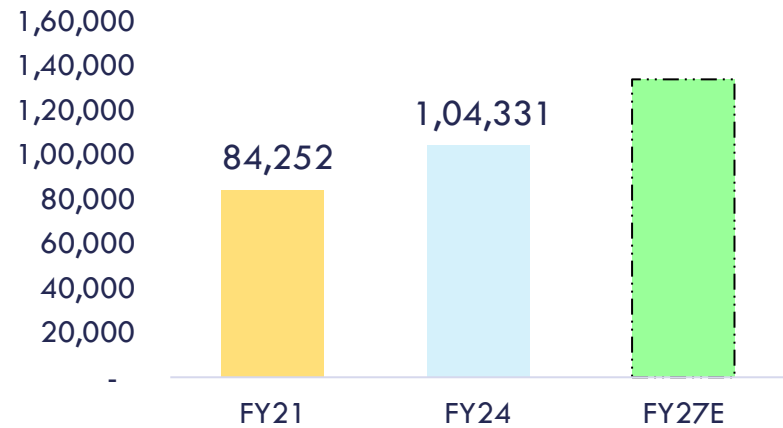
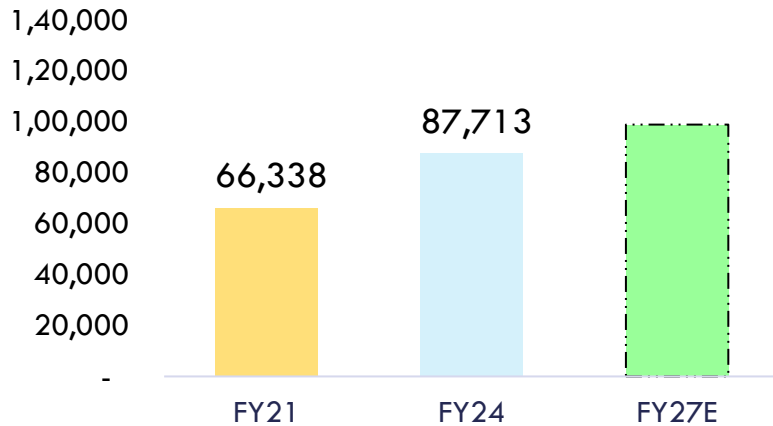
Multiple Revenue Streams



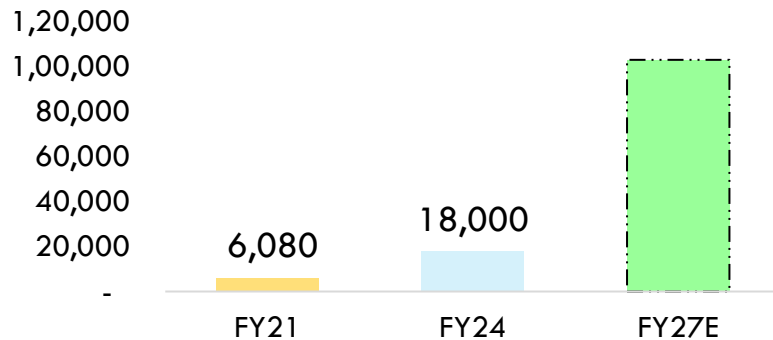
Standalone Regulated Equity

Amount in ₹ Crore

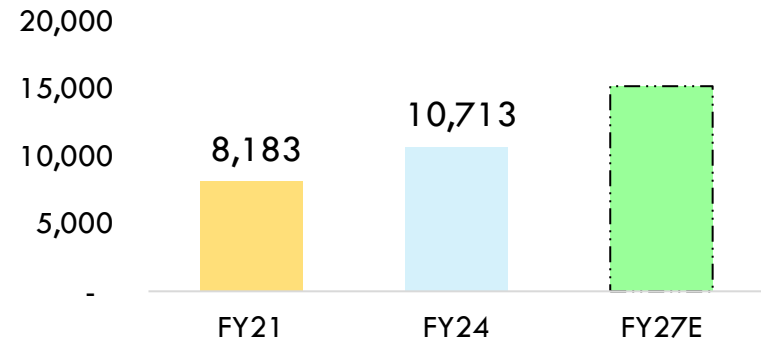
Consolidated Regulated Equity



Cumulative RE Capitalisation



Cumulative Investment in Coal Mining





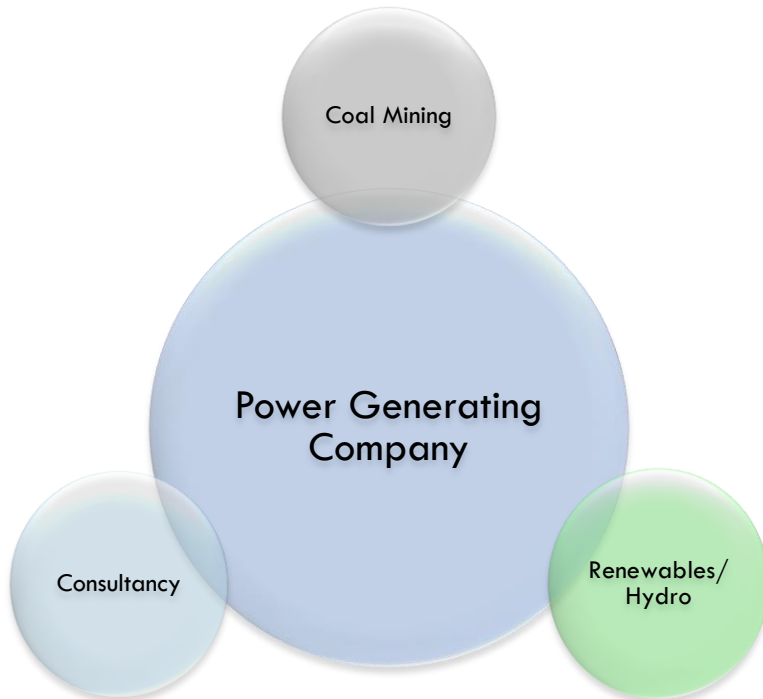
Leading Energy Transition
ensuring Energy Security



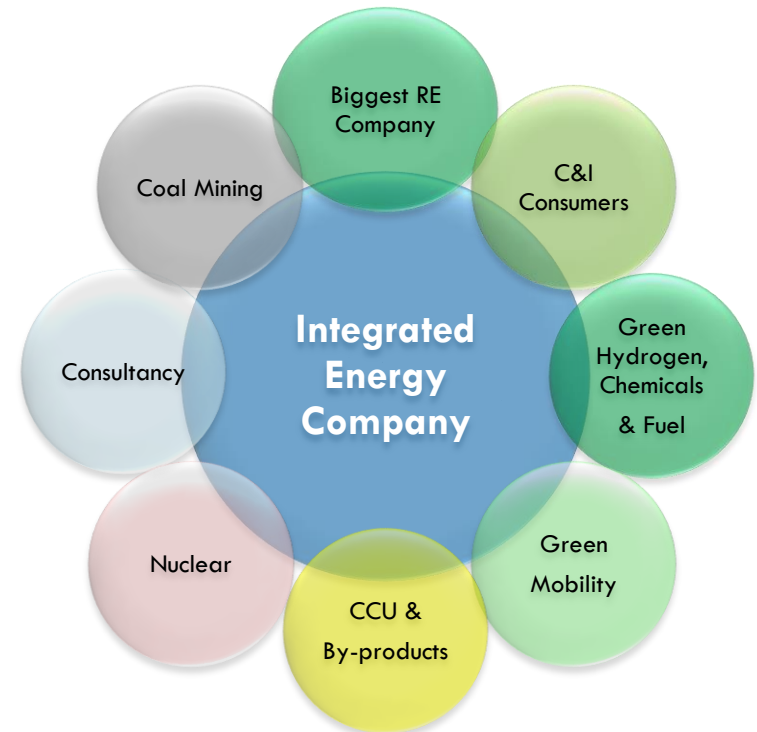
Spearheading Energy Transition ensuring Energy Security



2024



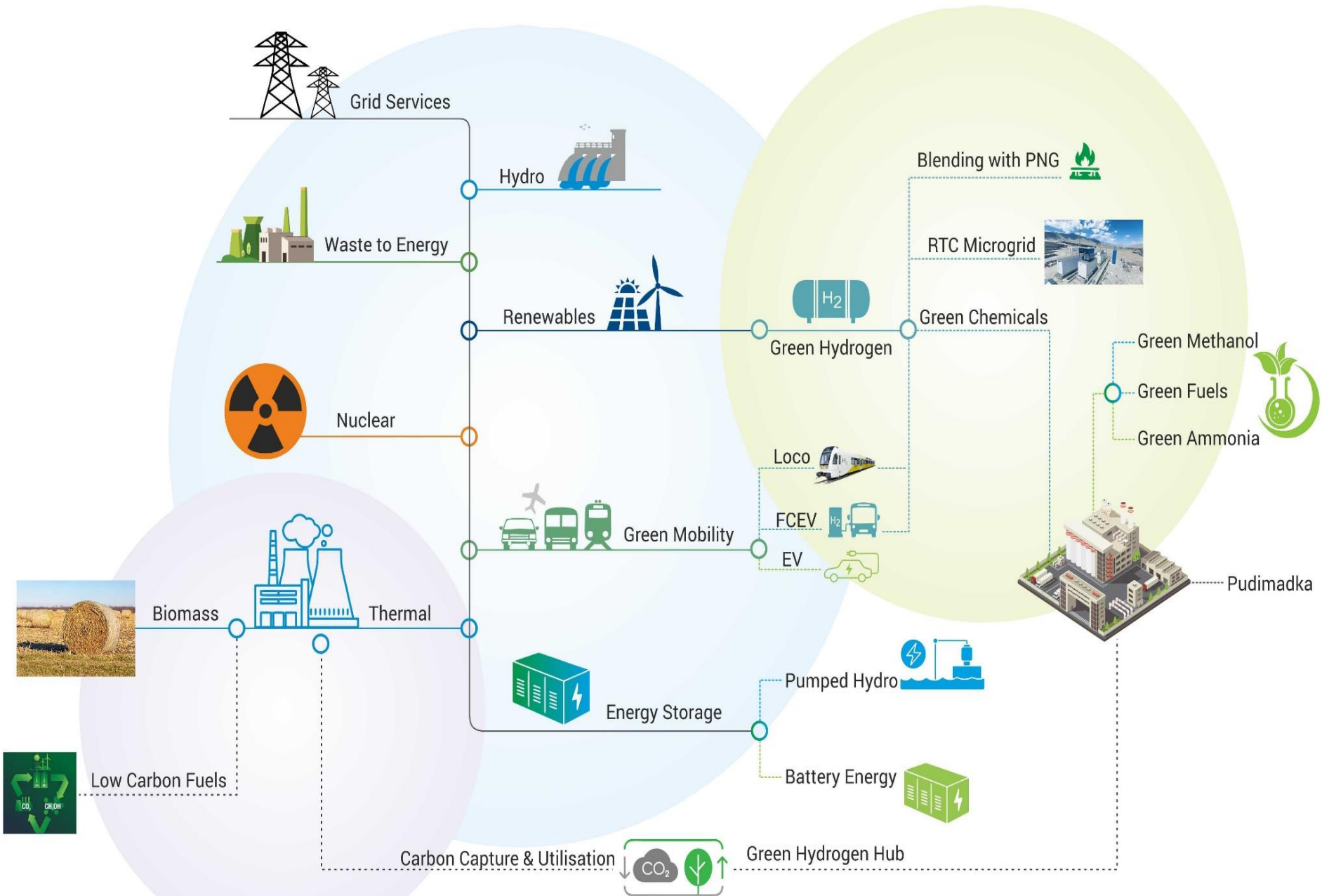
2032

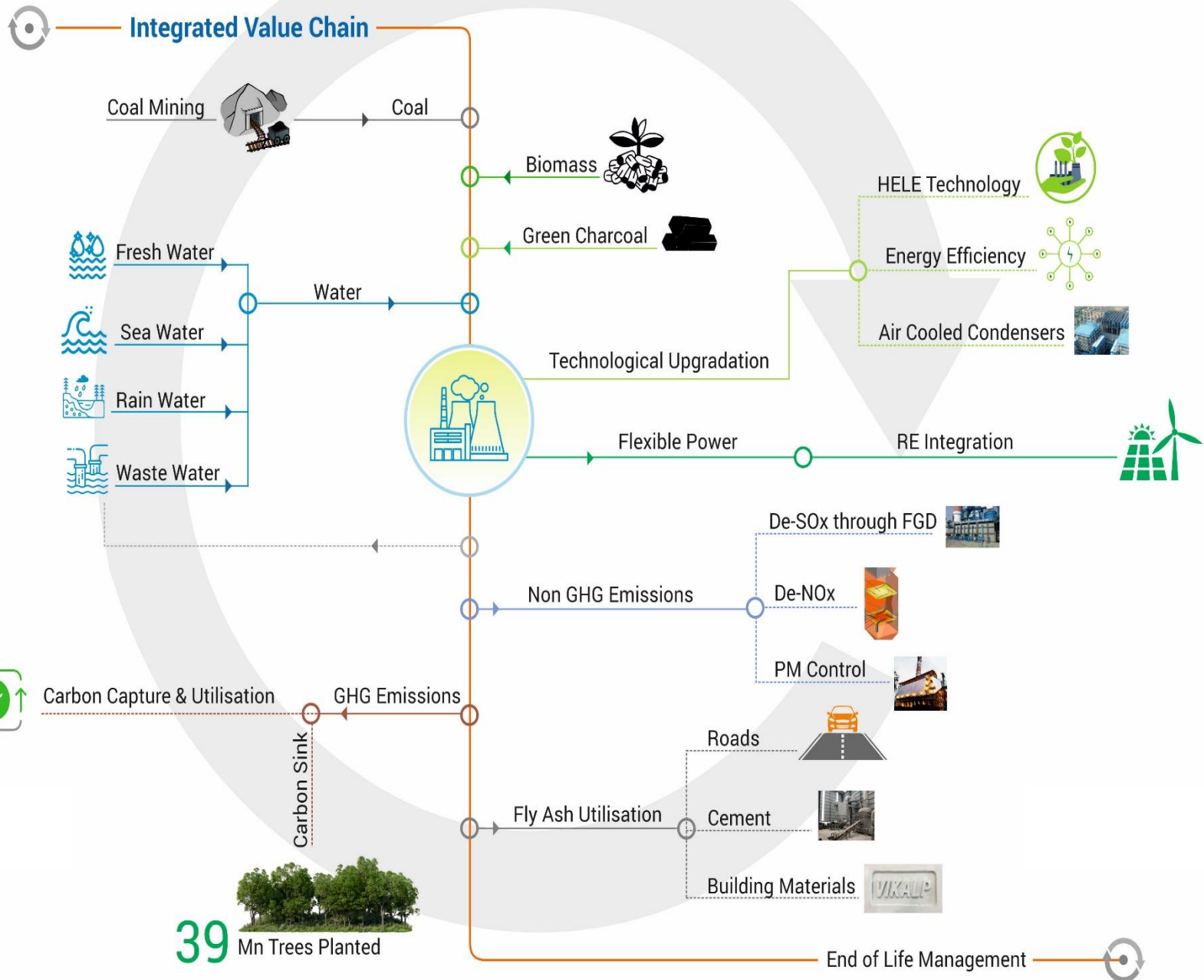


Supplier of Clean, Green and Affordable Power in India and Abroad



Integrated Energy Spectrum - Moving towards Net Zero





39 Mn Trees Planted

Key Sustainability initiatives





NTPC Brighter Plan 2032
With well-defined KPIs and Targets



UN Energy Compact Goals 2030
8.5% reduction in net energy intensity



Net Zero
Net Zero Townships by next fiscal (Scope 2)



Carbon Sink (~39 Mn. trees planted)
Developing Mega Eco Park at Badarpur

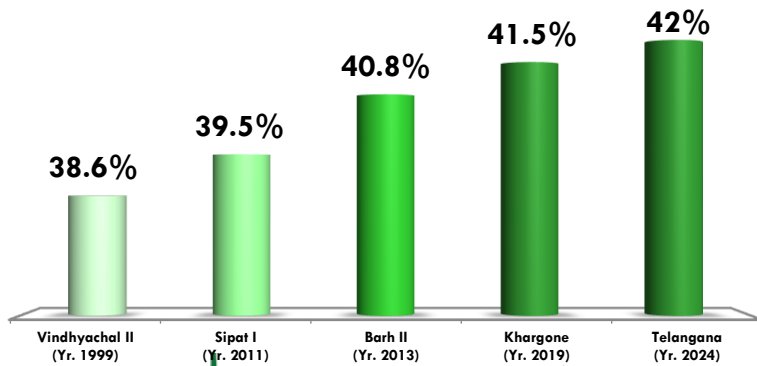


Emission Control
Leading adoption of De-SOx and De-NOx

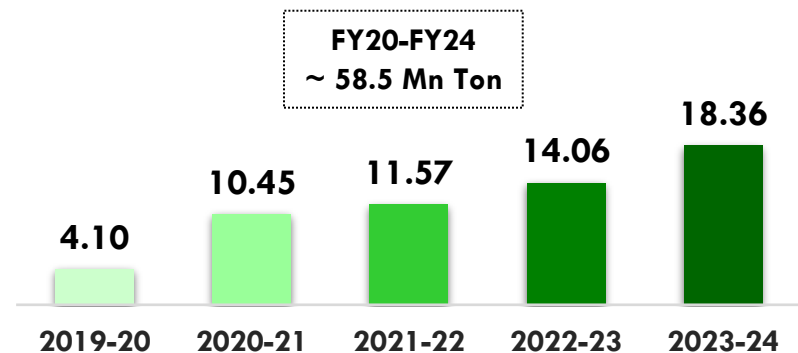


Bio-Mass Co-firing
Usage of bio-mass pellets in power plants as fuel

Every 1% rise in efficiency leads to 2.5% CO₂ reduction



CO₂ Emissions avoided (in Million Tn)



NTPC CSR Initiatives - Touching Lives of People



₹255 crore spent on CSR activities during FY24 at Group level

Key CSR Activities



Focus areas of NTPC's CSR activities are Health, Sanitation, Safe Drinking Water and Education

NTPC hospitals provide quality care to more than 3,00,000 patients from the community every year

Supported GOI's Swachh Bharat Abhiyan by making available 24,000 toilets in 15,500 schools

Schools in NTPC Townships provide subsidized education to rural community children

GEM program has benefited 10,100 girls with the objective to make them self-reliant and confident

Developing Archery sport from grassroot level

CSR initiatives have touched lives of 16 lakh people in one or the other way, at remote locations





Operational Excellence



Proven Operational Excellence



Maintaining Leadership

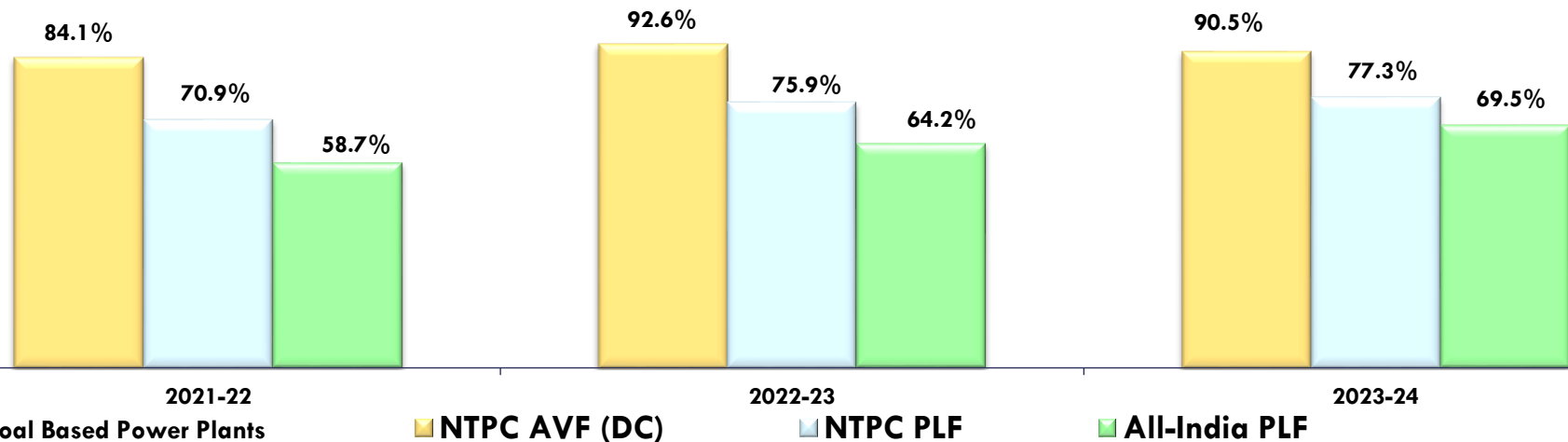
- NTPC Coal Stations achieved PLF of 77.3% in FY24 with a clear lead over All India PLF
- Highest ever Group generation of 422 BUs in FY24, with growth of 6% and further 10% growth in Q1FY25 to 114 BUs

In-depth Monitoring

- Sound maintenance practices & real-time monitoring ensure high availability and efficient operations
- Periodic structured technical audits for identifying and correction of gaps

Safety at Forefront

- Safety is integral to our working, and we have renewed and intensified our focus on safety



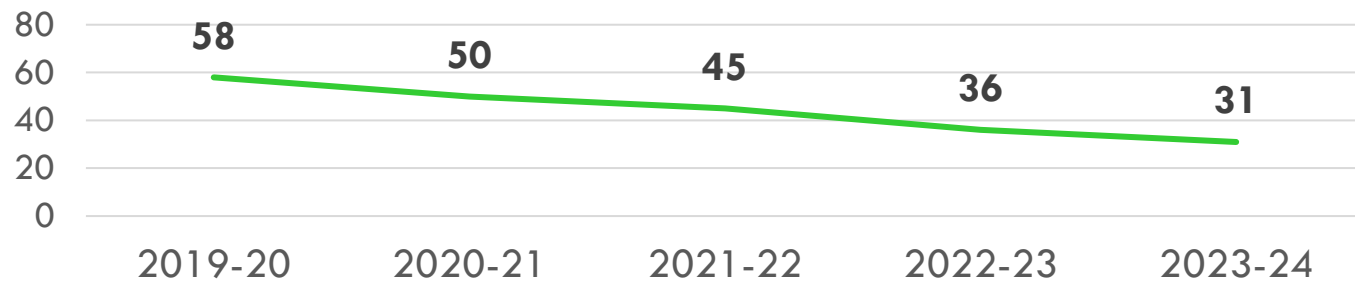
Sustaining Competitive Tariff & Realization



Payment Security

- Regulatory mechanism assures Returns balancing risks and rewards
- TPA agreements in addition to payment security through LC mechanism
- Highest ever realization of more than Rs.1.57 lakh crore during FY24

Trade Receivables (in days)



Long-term Fuel Security - Assured Coal Supply



Long-term FSAs/Other Sources

- Long term Fuel Supply Agreements (FSAs) have been signed with CIL and SCCL for supply of coal
- Coal is also available through bridge linkages, captive mines, e-auction etc.

Single ACQ

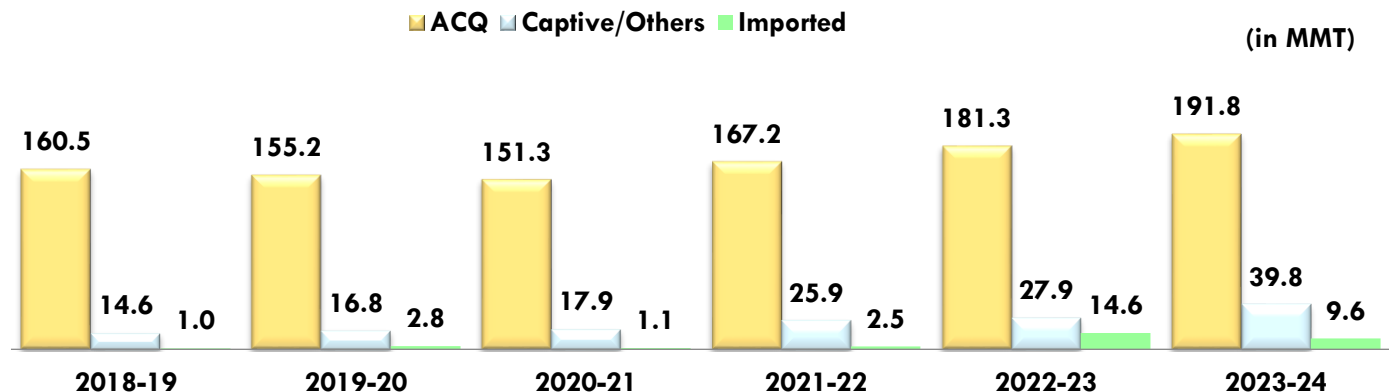
- Rationalized the ACQ for optimum utilization of coal and better stock management at our power plants

Ensuring Logistics/Coal Import

- 60% of our coal-based capacity is linked by MGR/belt conveyor system to coal mines
- To augment coal stocks, 9.6 MMT of coal imported in FY24

Assured Coal Supply

92% ACQ materialization during FY24



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Coal Blocks

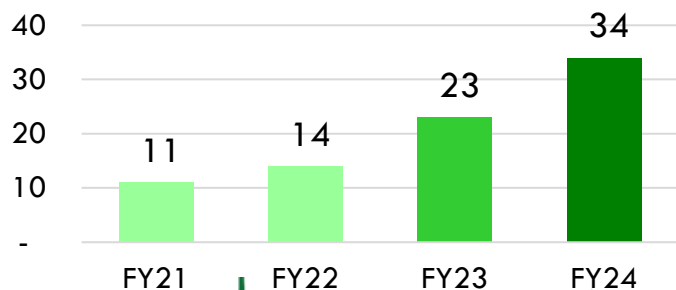
Coal Blocks	Capacity (MTPA)	Production FY24 (in MT)
Pakri-Barwadih	22	16.3
Dulanga	7	7.0
Talaipalli	25	7.5
Chatti-Bariatu	7	3.3

86 MTPA

Peak Mining Capacity

Coal Blocks	Capacity (MTPA)	Production FY24 (in MT)
Kerandari	6	0.2
Badam	3	
Banhardih (PVUNL)	12	Under Development
North Dhadu (NML)	4	

Remarkable growth in Coal Production



- Achieved annual production of 34 MT in FY24 registering growth of 48% over FY23 production of 23 MT
- Plan to fulfil a minimum of 25% of our coal requirement through captive mines by FY30



Foray into Nuclear Power Sector

- Signed a Supplementary JV Agreement with Nuclear Power Corporation of India for development of Nuclear Power Projects
- Project of 2.8 GW capacity (Approximate Cost - 2017 level: ₹42,000 crore) is under active consideration for award
- Exploring Small Modular Reactor technology in collaboration with BARC

Global Footsteps

- 1320 MW thermal power plant commissioned in Bangladesh
- Developing a 50 MW (extendable to 120 MW) solar power project in Sri Lanka
- PMC for implementation of 6620 MW projects in 12 countries of Africa & Latin America
- PMC for setting up solar demonstration projects in 10 ISA member countries



NTPC HR Vision

To enable our people to be a family of committed world class professionals,
making NTPC a learning organization

Leading to Consistent Improvement in Productivity of Manpower

Per Employee	2023-24	2022-23	2021-22
Revenue (₹ in crore)	11.06	11.06	7.90
EBITDA (₹ in crore)	3.13	3.11	2.51
Value Added (₹ in crore)	4.05	3.91	3.07
Generation (in MUs)	24.14	22.71	19.66
MAN-MW Ratio	0.25	0.27	0.28

- NTPC takes pride in its work culture of High-Trust and High-Performance
- Bestowed with the prestigious ATD BEST Award
- Recognized as one of the “Most Preferred Workplaces”
- Certified as a “Top Employer 2024” in India by Brandon Hall Group





Robust Financials



Robust Financials



Amount in ₹ Crore

Particulars (Standalone)	FY24	FY23	Chg. (in %)	Q1FY25	Q1FY24	Chg. (in %)
Revenue from Operations	161985	163770	-1%	44419	39122	14%
Fuel & Energy Purchased	97919	100508	-3%	27352	23863	15%
Gross Profit	64066	63262	1%	17067	15259	12%
Other Income	3722	3955	-6%	634	558	14%
Operating Expenses	20884	20034	4%	4620	3890	19%
EBITDA	46904	47183	-1%	13081	11927	10%
Depreciation	13943	13137	6%	3655	3260	12%
Finance Cost	10251	9979	3%	2649	2515	5%
Exceptional Income	835	-	-	-	-	-
PBT	23545	24067	-2%	6777	6152	10%
Tax	6600	6279	5%	1663	1654	1%
Movement in Reg. Def. Bal.	1134	-591	-292%	-603	-432	40%
Profit for the period	18079	17197	5%	4511	4066	11%
EPS	18.64	17.73	5%	4.65	4.19	11%



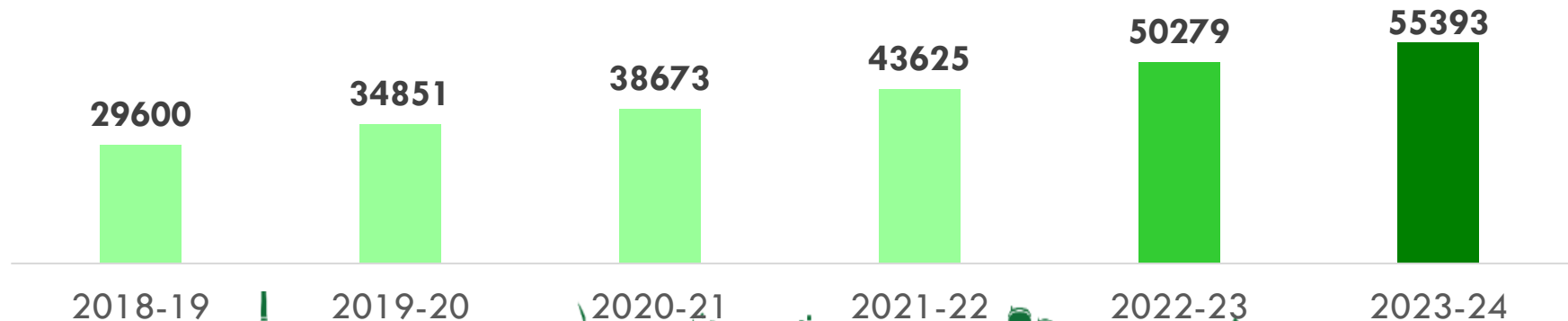
Broadening Group Financials



Amount in ₹ Crore

Particulars (Group)	31.03.2024	31.03.2023	Change	Change (in %)
Share of Profit from JVs	1,636	780	856	110%
Profit of subsidiaries	3,897	1,466	2,431	166%
Group Debt	2,35,040	2,21,092	13,948	6%
Group Net Worth	1,65,122	1,50,954	14,168	9%
Group Regulated Equity	1,04,331	94,180	10,151	11%
Group Profit	21,332	17,121	4,211	25%

Group EBITDA gaining momentum

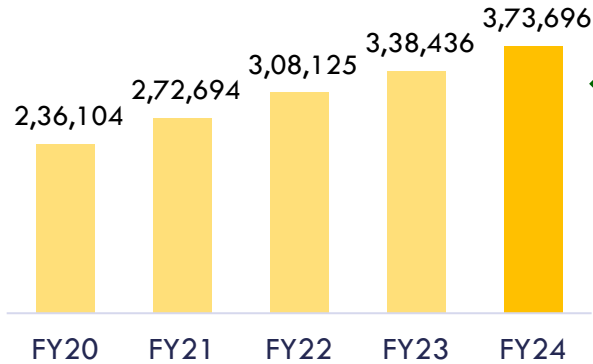


Walking the Talk - ROE Expansion with Balanced Payouts

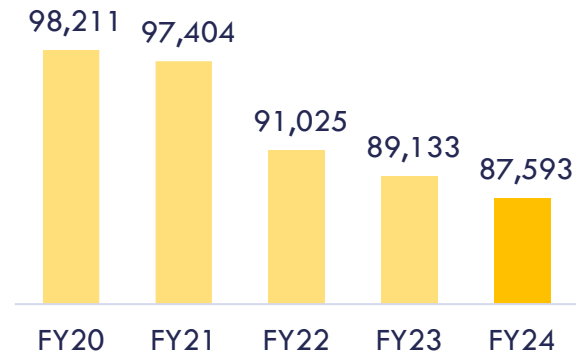


Growing Gross Fixed Assets

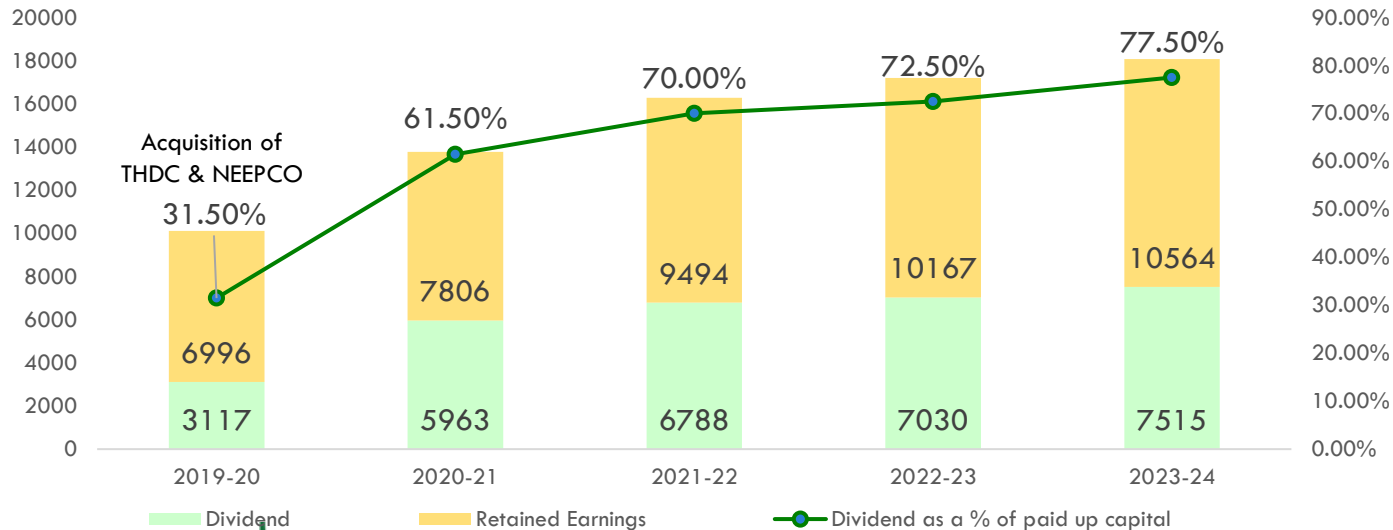
Amount in ₹ Crore
(on Consolidated basis)



Capitalising CWIP



Balancing payouts with Growth



- Committed to deliver sustainable value to shareholders
- Balancing payout with deployment for growth plans
- Highest ever dividend on cash basis paid in FY24



NTPC - Leading the Power Sector



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Thank You

