



एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)

केन्द्रीय कार्यालय/Corporate Centre

Ref. No.:01/ FA/ISD/Compliance/2025-26

Dated: 18 August 2025

Listing Department National Stock Exchange of India Limited 'Exchange Plaza', C-1, Block G, Bandra Kurla Complex, Bandra (E), Mumbai - 400 051. Scrip Code - NTPC	Corporate Relationship Department, BSE Limited, Rotunda Building, P J Towers, Dalal Street, Fort, Mumbai - 400 001. Scrip Code - 532555
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Sub: Investor Presentation

In terms of Regulation 30 of SEBI (LODR) Regulations, 2015, we hereby submit the Investor Presentation proposed to be made at the 21st Annual Analysts and Institutional Investors Meet of NTPC Limited on 18 August 2025.

Yours faithfully,

(Aditya Dar)
Executive Director (Finance)



50 Years of Commitment to Nation
Accelerated Growth with Sustainability



21st Analysts & Investors Meet



Presentation Outline



Sectoral Outlook & Company Overview



Energy Transition with Accelerated Growth



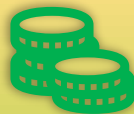
New Frontiers



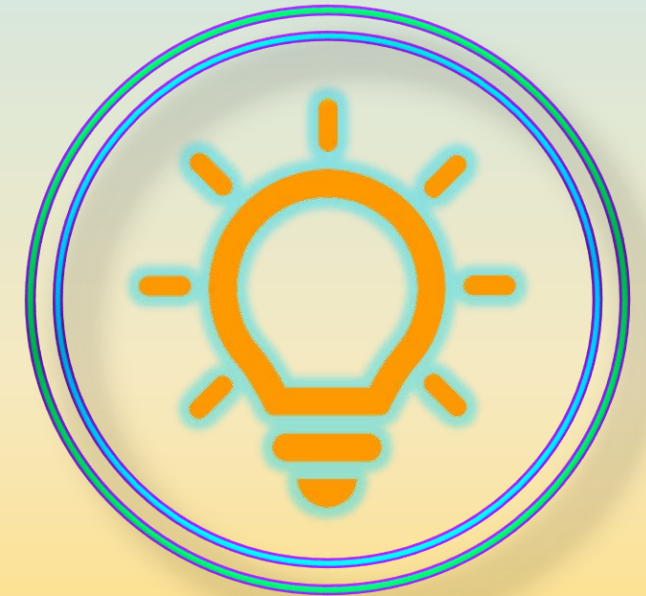
Visible Growth Trajectory

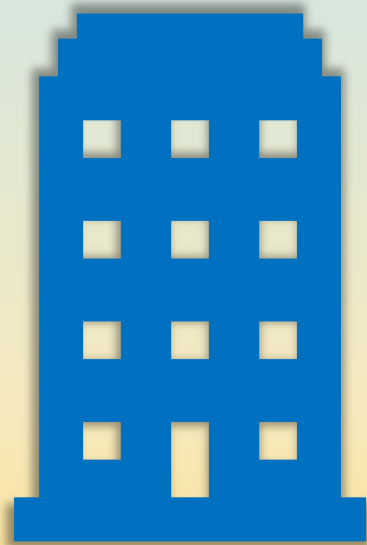


Operational Excellence



Robust Financials





Sectoral Outlook & Company Overview

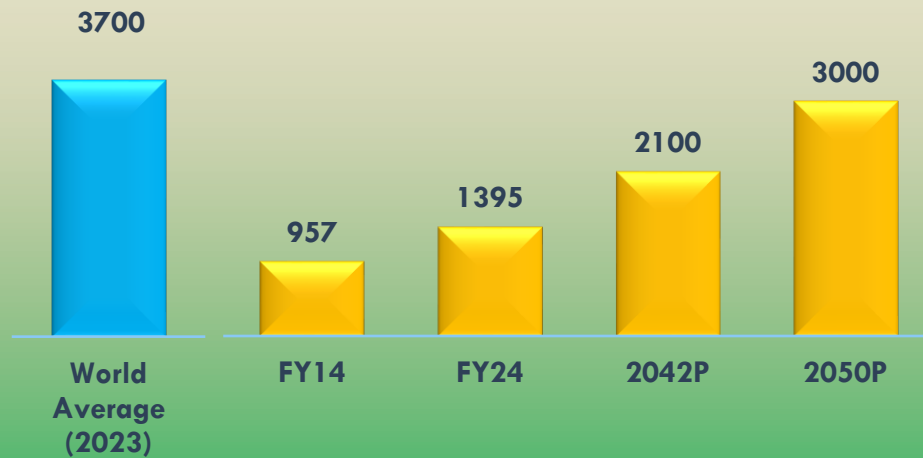


Strong Growth Drivers for Power Sector in India

DEMAND

India's GDP is consistently growing, underpinned by a favorable demographic profile, robust investments in Infrastructure, vibrant & young workforce, and continued structural reforms enhancing ease of doing business

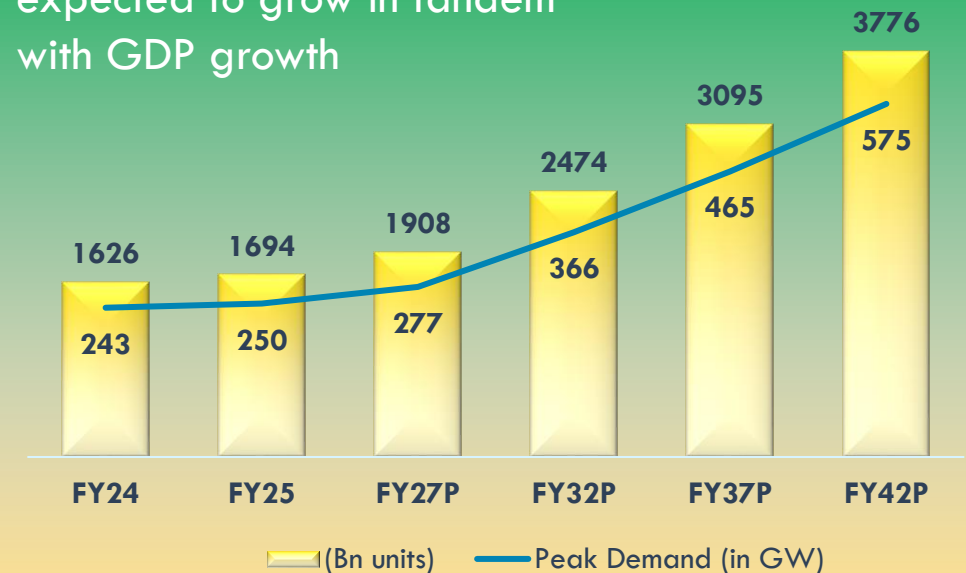
Increasing Per Capita Consumption (kWh/Year)



India has low per capita consumption of electricity which is expected to rise to 3000 kWh by 2050

SUPPLY

Electricity requirement in India is expected to grow in tandem with GDP growth



Projected Energy requirement & Peak Load

Both peak load demand and energy requirement are expected to rise at a healthy pace



NTPC - Vision, Mission and Core Values



VISION

To be the world's
Leading Power Company,
accelerating India's Growth & Energy Transition



MISSION

Provide reliable power and energy transition solutions in
an economical, efficient and environment-friendly
manner, driven by innovation and agility

CORE VALUES

I



Integrity

C



Customer Focus
& Agility

O



Organisational
Pride

M



Mutual Respect
& Trust

I



Innovation &
Learning

T



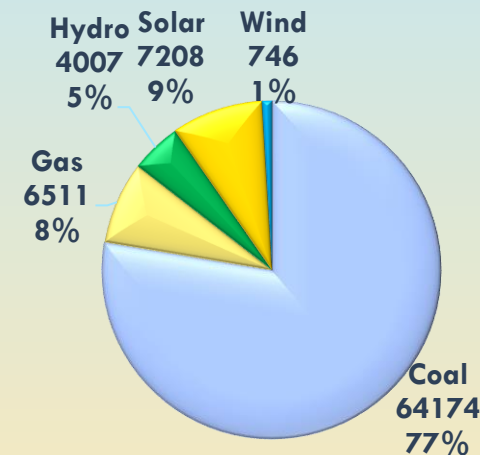
Total Quality &
Safety



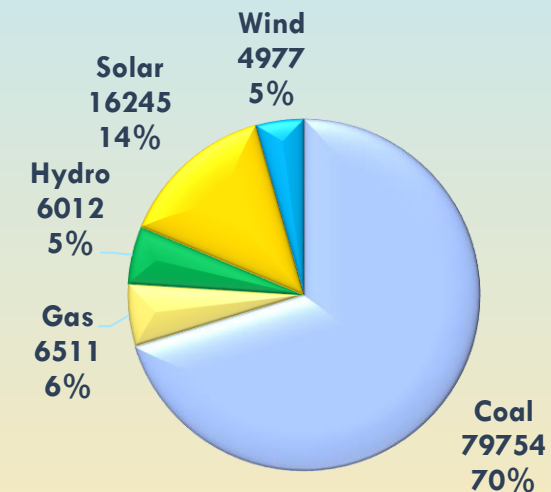
Overview - Operation and Under Construction Capacity (in MW)

Source (as on June 30, 2025)	Operation	Construction	Portfolio
Coal	55170	12520	67690
Gas	4017	-	4017
Hydro	808	811	1619
Solar	983	503	1486
NTPC Standalone	60978	13834	74812
Coal (Subsidiaries)	1660	3060	4720
Coal (JVs)	7344	-	7344
Gas (Subsidiaries)	2494	-	2494
Hydro (Subsidiaries)	2949	444	3393
Solar (NEEPCO & THDC) (Subsidiaries)	55	311	366
PSP (THDC) (Subsidiary)	250	750	1000
Wind (THDC) (Subsidiary)	113	-	113
Solar (NGEL & NREL) (Subsidiaries)	4355	5950	10305
Wind (NGEL & NREL) (Subsidiaries)	190	3182	3372
Solar (NGEL JVs)	1815	2273	4088
Wind (NGEL JVs)	443	1049	1492
NTPC Group	82646	30853	113499

Under Operation - 82646 MW

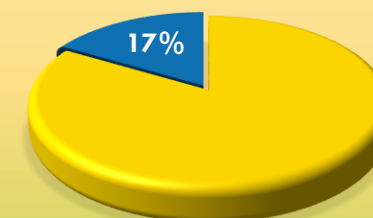


Portfolio Capacity - 113499 MW



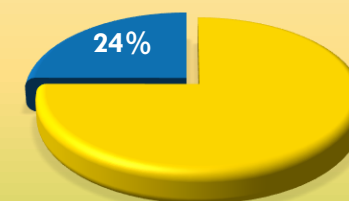
Maintaining Energy Leadership

Share of Installed Capacity
(as on 31 March, 2025)



Rest of India : 396602 MW
NTPC (Group) : 78610 MW

Share of Electricity Generated
(during FY25)



Rest of India : 1391 BUs
NTPC (Group) : 439 BUs

Accelerated Growth with Sustainability



Largest Power Generator in India

Installed capacity of 83 GW

Accelerated Growth in Capacity

4 GW added in FY25
3 GW already added in FY26
31 GW under construction

Commitment on RE Front

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

Operational Excellence

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

Setting New Records

Highest Profit & Generation in FY25
Highest Realization of ₹1.60 Lakh crore

Leapfrogging on ESG Front

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

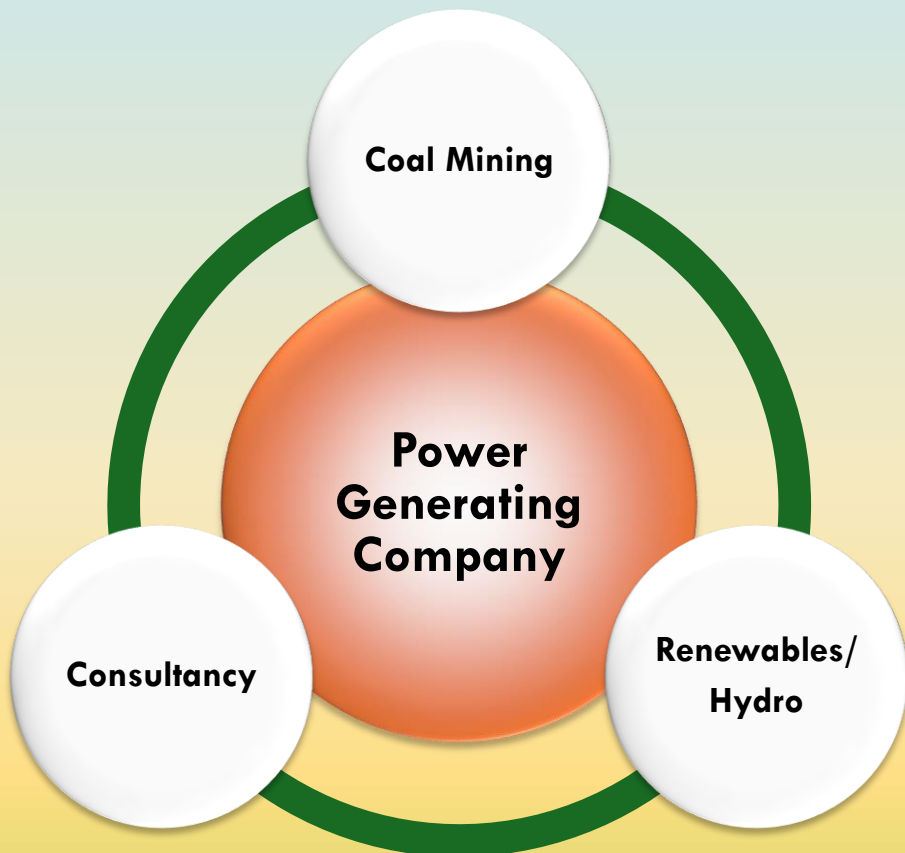




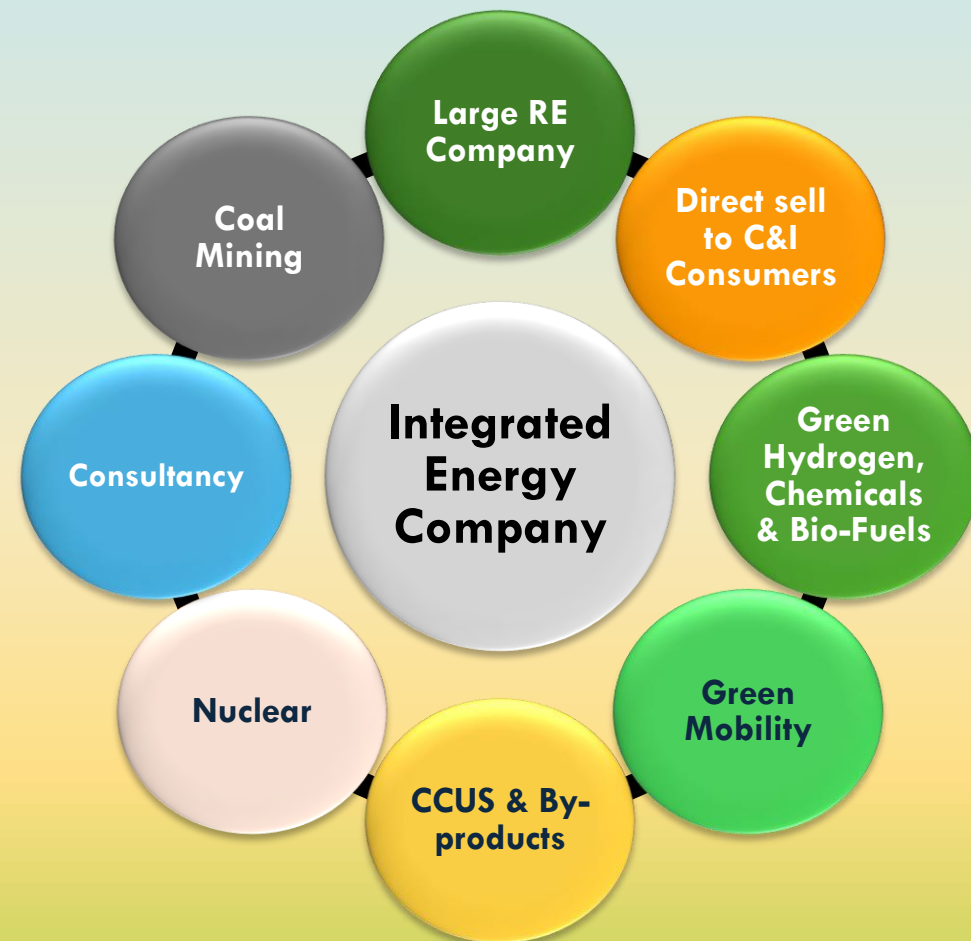
Energy Transition with Accelerated Growth



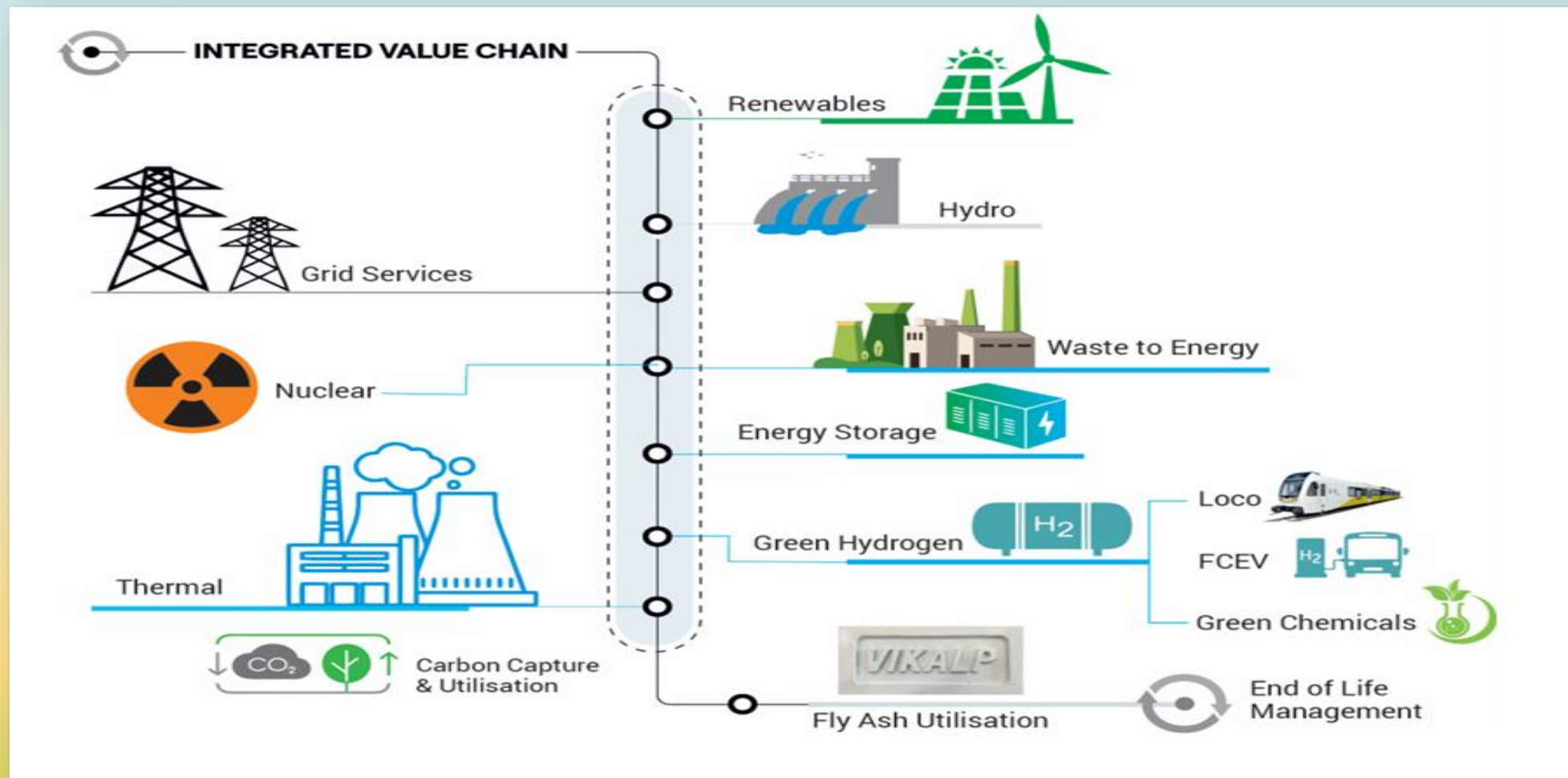
2025



2032



Integrated Energy Spectrum - Moving towards Net Zero





New Frontiers



**NTPC aims to contribute
30 GW towards the
nation's target of
100 GW nuclear capacity
by 2047**

NTPC is advancing its nuclear energy strategy through two main initiatives:

1

- **ASHVINI**, JV with NPCIL approved by GOI in FY25.
- **Mahi Banswara** project under ASHVINI includes **four 700 MW reactors**.
- Project received **Siting Consent** and **Environmental Clearance (EC)** in May 2025.

2

- Established a wholly owned subsidiary, **NPUNL** in FY25.
- Focus: **Advanced nuclear technologies**
- Identified potential sites in multiple states and signed MOUs with Madhya Pradesh and Chhattisgarh.

These efforts reflect NTPC's long-term commitment to diversifying its energy portfolio with clean and secure nuclear energy.



New Frontiers - Pumped Storage Projects



NTPC Group plans to add 21370 MW pumped storage projects - 11000 MW under NTPC and 10370 MW via THDC and NEEPCO.



COD for 2 PSP Units of 250 MW each of THDC declared on 7 June 2025 and 10 July 2025. We will see another 500 MW commissioned through THDC in current fiscal.



Another 3 - 5 GW of PSP capacity expected to be commissioned by 2031-32.

Allocation done for 5600 MW of projects to NTPC as follows:

Name of Project	Capacity
Upper Bhavani PSP (TN)	1000 MW
Amba PSP (MH)	1500 MW
Kumbhe PSP (MH)	1100 MW
Sikaser PSP (CG)	1200 MW
Matiyari PSP (MP)	800 MW
Total	5600 MW

Completed Preliminary Feasibility Reports for 19 projects and Detailed Project Reports for 4 projects are in an advanced stage.



Green Hydrogen Projects

Green Hydrogen from Sea Water

1 TPD Green Hydrogen Plant at Simhadri
Commissioning expected in FY26

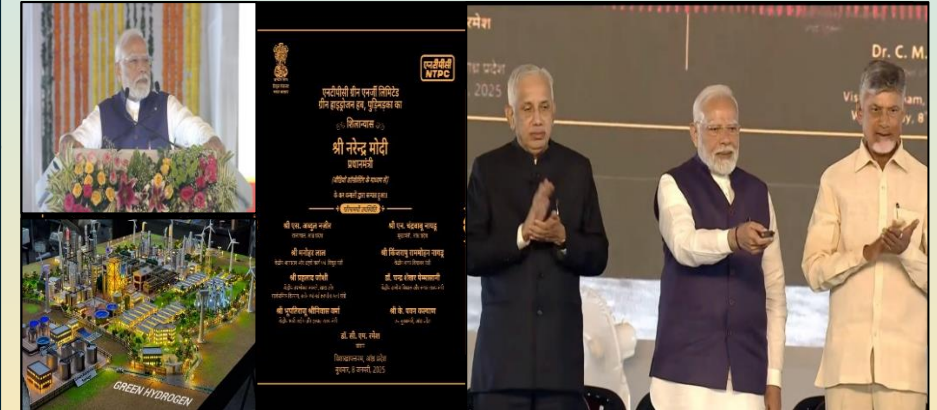
- Green Hydrogen produced from Sea Water
- Waste heat of flue gas used to produce 'H2 Grade' Water

Plasma Oxy-gasification based Green Hydrogen

1 TPD Green Hydrogen Plant at NETRA
Under tendering

- 'Green Hydrogen' generation from MSW-RDF / Agri-waste
- Plasma assisted 'Oxy Gasification'
- High purity hydrogen (> 99.9%)

Green Hydrogen Hub at Pudimadaka, AP Hon'ble PM laid the foundation stone



Energy Storage Projects (Under Construction)

Electro-Mechanical Energy Storage (CO2 Battery)

160 MWh Plant at NTPC Kudgi
(Construction commenced in January 2025)

Electro-Chemical Energy Storage (Vanadium Redox Flow Battery)

3 MWh Plant at NTPC NETRA
(Commissioning expected in FY26)

Thermal Energy Storage (Phase Change Material)

3.6 MWh Plant at NTPC Dadri
(Construction commenced in January 2025)



New Frontiers - Carbon Capture, Utilization & Storage (CCUS)

NTPC is working on all four verticals of CCUS - CO₂ Capture, CO₂ Compression & Pipeline Transportation, CO₂ Utilization and CO₂ Sequestration

CO₂ Capture

- 1 x 20 TPD Plant (Vindhyachal) **(Commissioned)**
- 1x25 TPD Plant (Simhadri) **(Construction in progress)**

CO₂ Pipeline Transportation

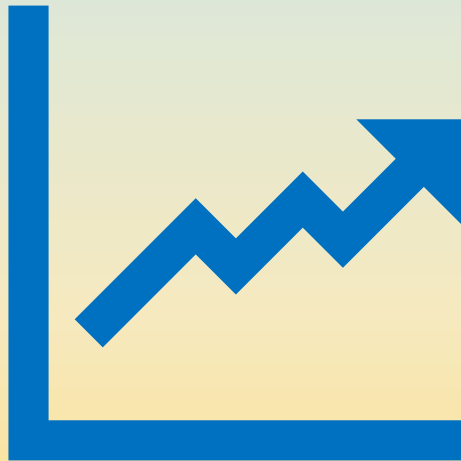
- CO₂ Pipeline Transportation from Simhadri to Pudimadaka (25 KM), **(DPR in progress)**

CO₂ Utilization

- CO₂ to Methanol: 3,000 TPA Plant at Vindhyachal **(Commissioned)**
- CO₂ to Gen-4 Ethanol: 3,000 TPA Plant at Pudimadaka **(Construction in progress)**
- Carbonated Brick: 2 Lakhs C-Brick/Day Plant at NTPC Ramgundam **(under tendering)**
- CO₂ to Sustainable Aviation Fuel: 1,800 TPA Plant at Pudimadaka **(upcoming)**

CO₂ Storage

- CO₂ Storage in unusable coal seams (Pakri Barwadih) **(in progress)**



Visible Growth Trajectory



Visible Growth Trajectory

Continuous capacity addition
to create
sustained value for Investors

Capacity Under Construction

31 GW

Additional Thermal Ordering

7.2 GW

RE Capacity Addition

Present RE Capacity - 8 GW

Target RE Capacity by 2032 - 60 GW

Pumped Storage Projects

1 GW planned in the current fiscal
3 to 5 GW by 2032

Nuclear

Plan to award 2.8 GW capacity in current fiscal
Identified potential sites across various states

Cumulative Group CAPEX of
around ₹7 Lakh Crore planned
by 2032



Operational Excellence



Maintaining Leadership

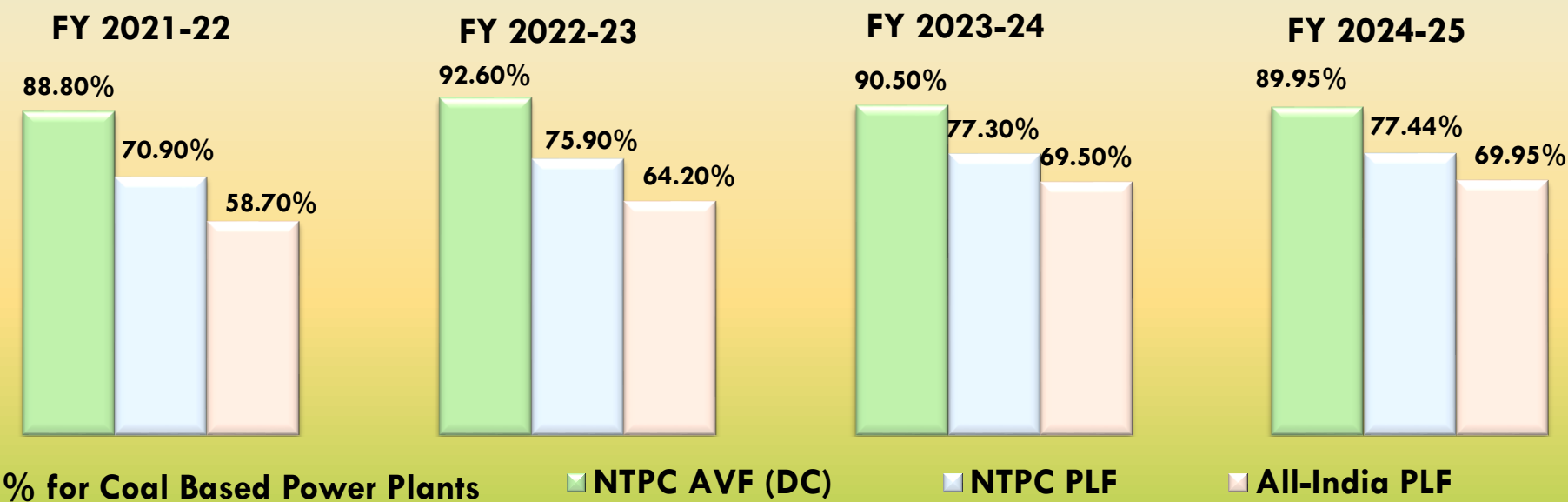
- NTPC Coal Stations achieved PLF of 77.44% in FY25 with a clear lead over All India PLF
- Highest ever Group generation of 439 BUs in FY25, with growth of 4%

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

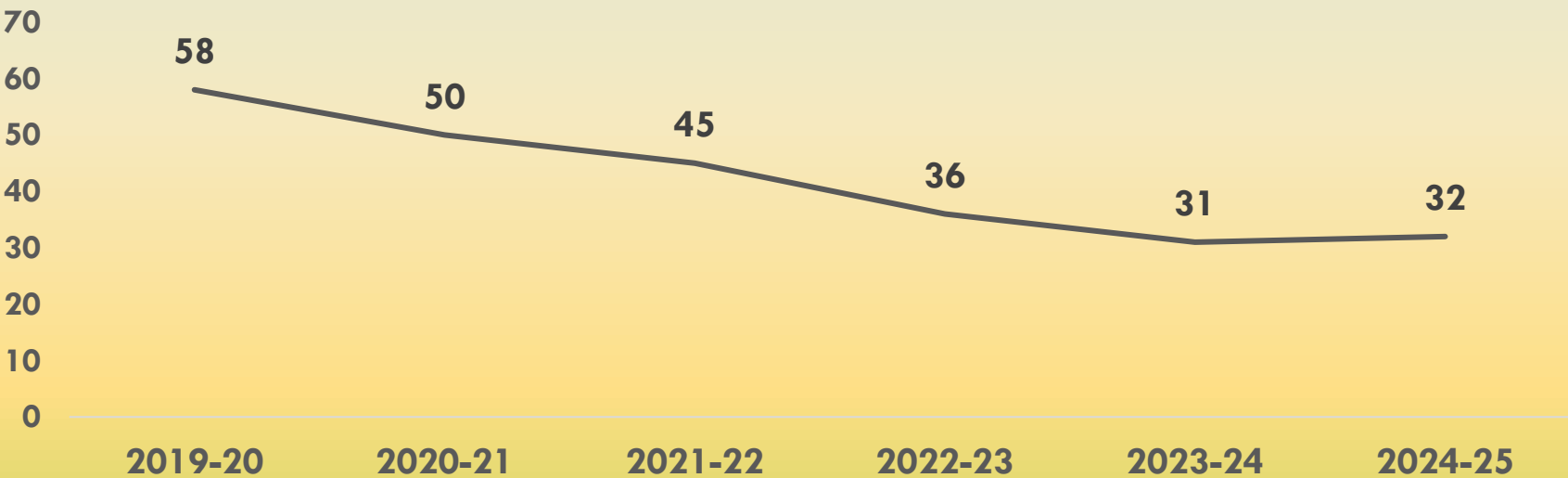
- Safety is integral to our working, and we have renewed and intensified our focus on safety



Payment Security

- Regulatory mechanism assures Returns balancing risks and rewards
- TPA agreements in addition to payment security through LC mechanism
- Highest ever realization of ₹1.60 lakh crore during FY25

Trade Receivables (in days)



Long-term Fuel Security - Assured Coal Supply



Long-term FSAs/Other Sources

- 100% fuel tie-up through long-term Fuel Supply Agreements (FSAs) with coal companies.
- Coal is also available through bridge linkages, captive mines, e-auction etc.

Rationalized ACQ

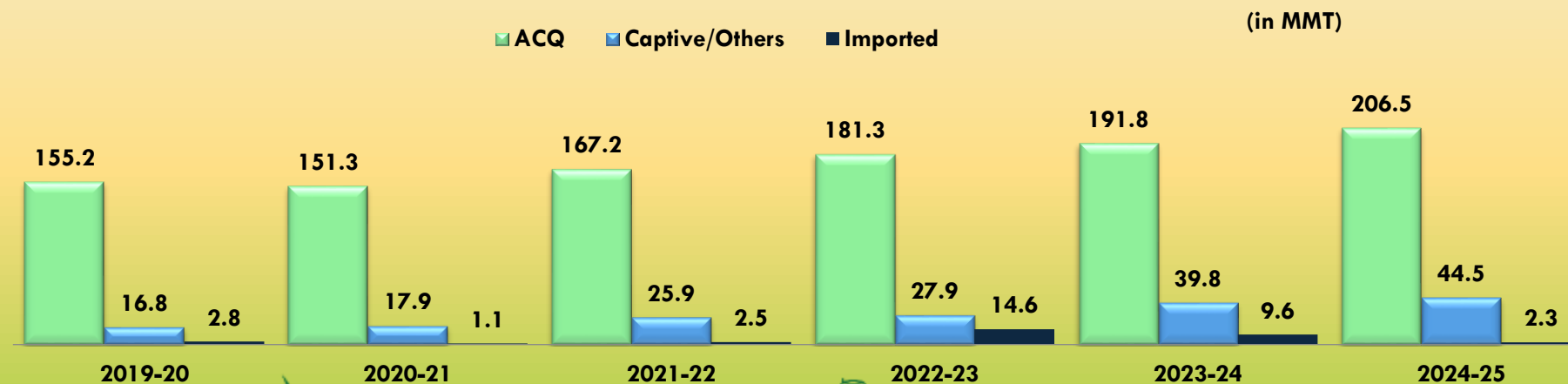
- Rationalized ACQ for optimum utilization of coal and better stock management at our power plants

Ensuring Logistics

- 60% of our coal-based capacity is linked by MGR/belt conveyor system to coal mines

Assured Coal Supply

No fuel supply related under recovery since FY20



9

Coal Blocks

~5 BT

Geological Reserves

91.6
MMTPA

Peak Mining Capacity

NTPC Captive Mines supplied ~15% of NTPC total coal receipt from all sources during FY25

Coal Block

Peak Mining Capacity (MMTPA)

Status

Pakri-Barwadih

22

Operational

Dulanga

7

Operational

Talaipalli

25

Operational

Chatti-Bariatu

7

Operational

Kerandari

6

Operational

Amelia (THDC)

5.6

Operational

Badam

3

Under Development

Banhardih (PVUNL)

12

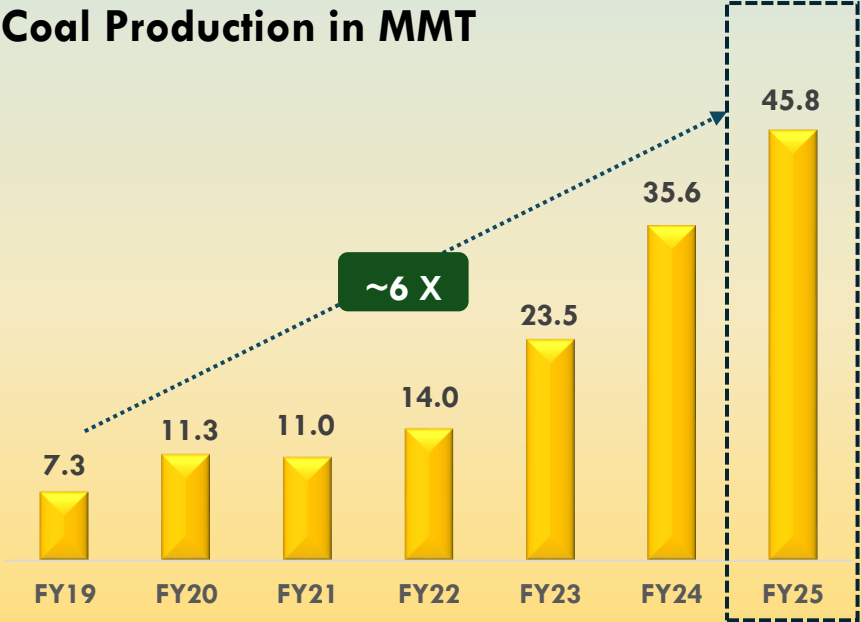
Under Development

North Dhadu (East)

4

Mining plan under approval

Coal Production in MMT



10.88 MMT

NTPC Group Coal Production in Q1FY26

161.6 MMT

Cumulative Coal Production since inception till Q1FY26

Key Sustainability initiatives



NTPC Brighter Plan 2032

With well-defined KPIs and Targets



Net Zero

Net Zero Townships (Scope 2)



Emission Control

Leading adoption of De-SOx and De-NOx



Water Conservation

Achieved specific water consumption of 2.58 m³/MWh (4% YoY reduction)



Carbon Sink (40 Mn. trees planted)

Developing Mega Eco Park at Badarpur

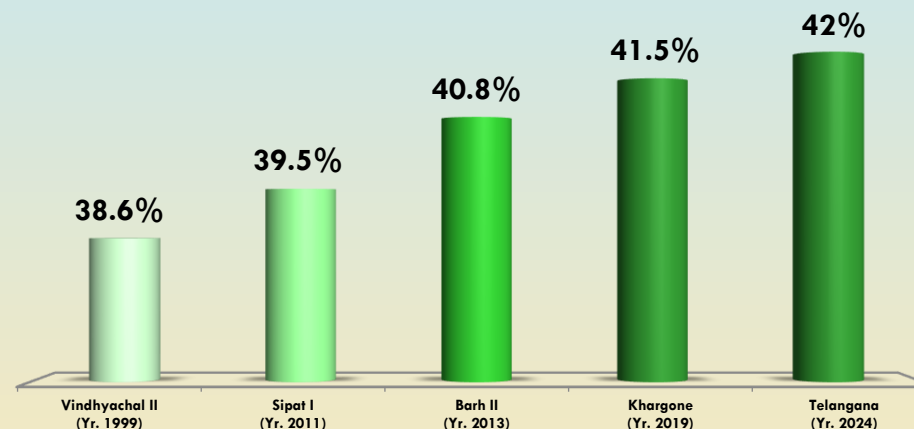


Bio-Mass Co-firing

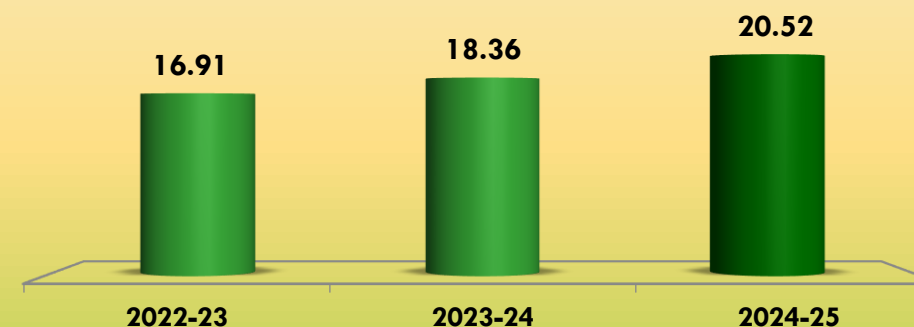
Usage of bio-mass pellets in power plants as fuel
Biomass co-firing increased by 4 times in FY25



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



CO₂ Emissions avoided (in Million Tn)



NTPC CSR Initiatives - Touching Lives of People



Focus Areas



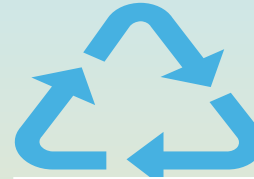
Health



Education



Environment



Sanitation



Water



PM Internship

Highlights

- Built over 24000 school toilets, installed drinking water ATMs and RO plants, and provided healthcare access to over 300000 people annually.
- Our flagship Girl Empowerment Mission has trained and mentored over 12740 girls through residential camps, nurturing confidence, health, and learning outcomes.
- In FY25, NTPC spent ₹363 crore on CSR.



Competent Manpower driven by Visionary Management



NTPC HR Vision

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

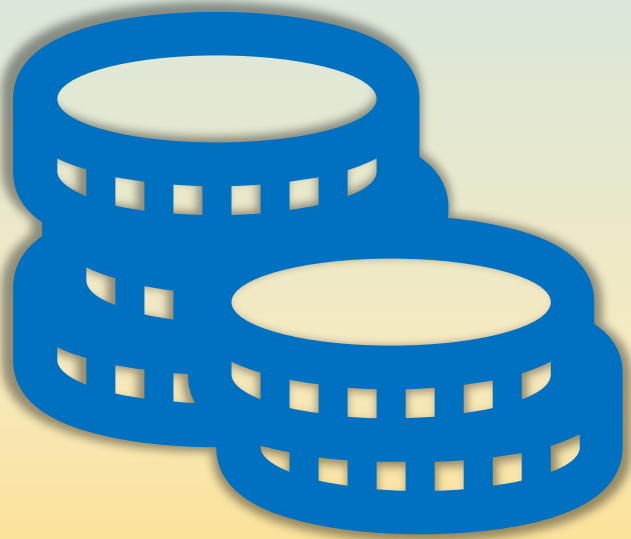
Leading to Consistent Improvement in Productivity of Manpower



Per Employee	2024-25	2023-24	2022-23
Revenue (₹ in crore)	11.54	11.06	11.06
EBITDA (₹ in crore)	3.29	3.13	3.11
Value Added (₹ in crore)	4.35	4.05	3.91
Generation (in MUs)	24.66	24.14	22.71
MAN-MW Ratio	0.25	0.25	0.27

- ✓ 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**”
- ✓ Recognised as one of the “**World’s Best Employer 2024**” in Forbes World’s Best Employer List





Robust Financials



Robust Financials - Standalone



Amount in ₹ Crore

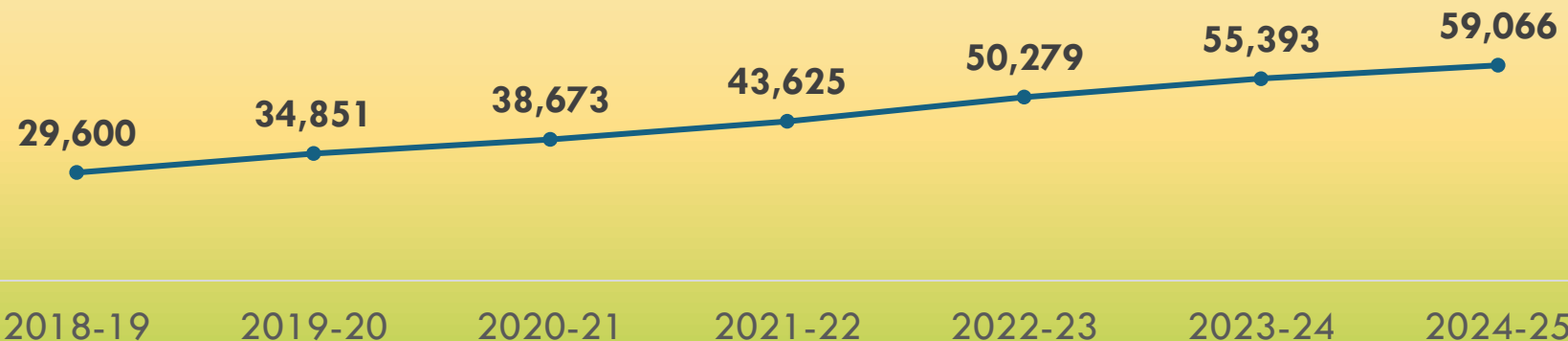
Particulars	FY25	FY24	Chg. (in %)	Q1FY26	Q1FY25	Chg. (in %)
Revenue from Operations	170,037	161,985	5%	42,573	44,419	-4%
Fuel & Energy Purchased	100,828	97,919	3%	24,902	27,352	-9%
Gross Profit	69,209	64,066	8%	17,671	17,067	4%
Other Income	4,376	3,722	18%	760	634	20%
Operating Expenses	23,836	20,884	14%	7,386	4,620	60%
EBITDA	49,749	46,904	6%	11,045	13,081	-16%
Depreciation	15,056	13,943	8%	3,869	3,655	6%
Finance Cost	11,057	10,251	8%	2,838	2,649	7%
Exceptional Income	-	835	-100%	-	-	-
PBT	23,636	23,545	0%	4,338	6,777	-36%
Tax	7,300	6,600	11%	1,481	1,663	-11%
Movement in Reg. Def. Bal.	3,313	1,134	192%	1,918	-603	-418%
Profit for the period	19,649	18,079	9%	4,775	4,511	6%



Amount in ₹ Crore

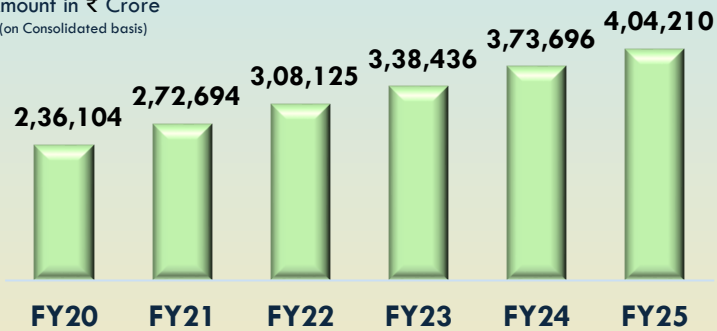
Particulars (Group)	31.03.2025	31.03.2024	31.03.2023
Share of Profit from JVs	2,214	1,636	780
Profit of subsidiaries	4,139	3,897	1,466
Group Debt	2,47,572	2,35,040	2,21,092
Group Net Worth	1,91,123	1,65,122	1,50,954
Group Regulated Equity	1,08,791	1,04,331	1,04,331
Group Profit	23,953	21,332	17,121

Group EBITDA gaining momentum



Growing Gross Fixed Assets

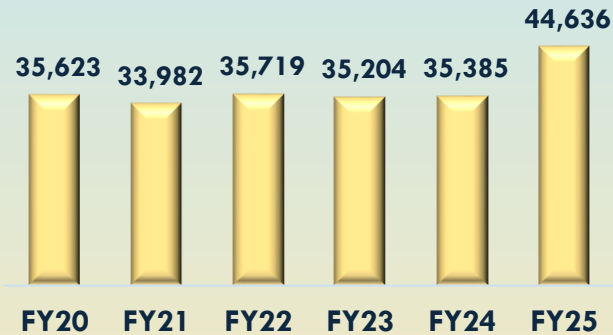
Amount in ₹ Crore
(on Consolidated basis)



Gross Fixed Assets

30.06.2025 - ₹4,19,648 Crore
30.06.2024 - ₹3,77,251 Crore



Growing Group Capex

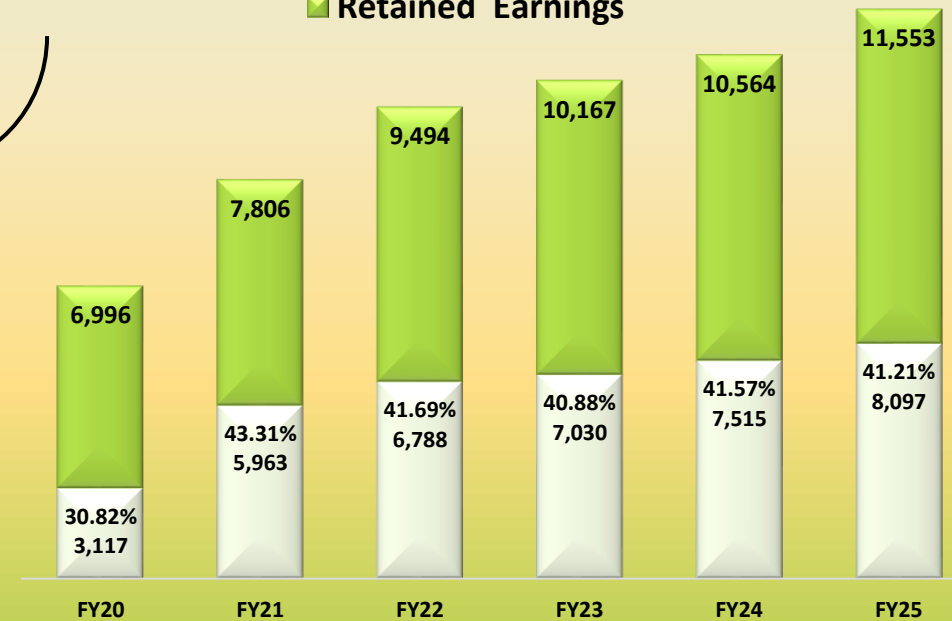


Group Capex incurred during

Q1FY26 - ₹11,260 Crore
Q1FY25 - ₹7,073 Crore

Balancing Payouts with Growth

 Payout %, Dividend
 Retained Earnings



- Committed to deliver sustainable value to shareholders
- Balancing payout with deployment for growth plans
- Highest ever dividend in FY25

Conclusion - A Compelling Investment Case

Dominant Market Leadership

Strategic Diversification into Clean Energy

Clear and Ambitious Growth Roadmap

Robust Operational and Financial Foundation

Government Support and Regulatory Visibility

Where Scale meets Sustainability



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