



**एनटीपीसी 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. <b>Scrip Code - NTPC</b>	Corporate Relationship Department, BSE Limited, Rotunda Building, P J Towers, Dalal Street, Fort, Mumbai - 400 001. <b>Scrip Code - 532555</b>
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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 21<sup>st</sup> Annual Analysts and Institutional Investors Meet of NTPC Limited on 18 August 2025.

Yours faithfully,

**Aditya  
Dar**

Digitally signed  
by Aditya Dar  
Date: 2025.08.18  
15:06:24 +05'30'  
(Aditya Dar)

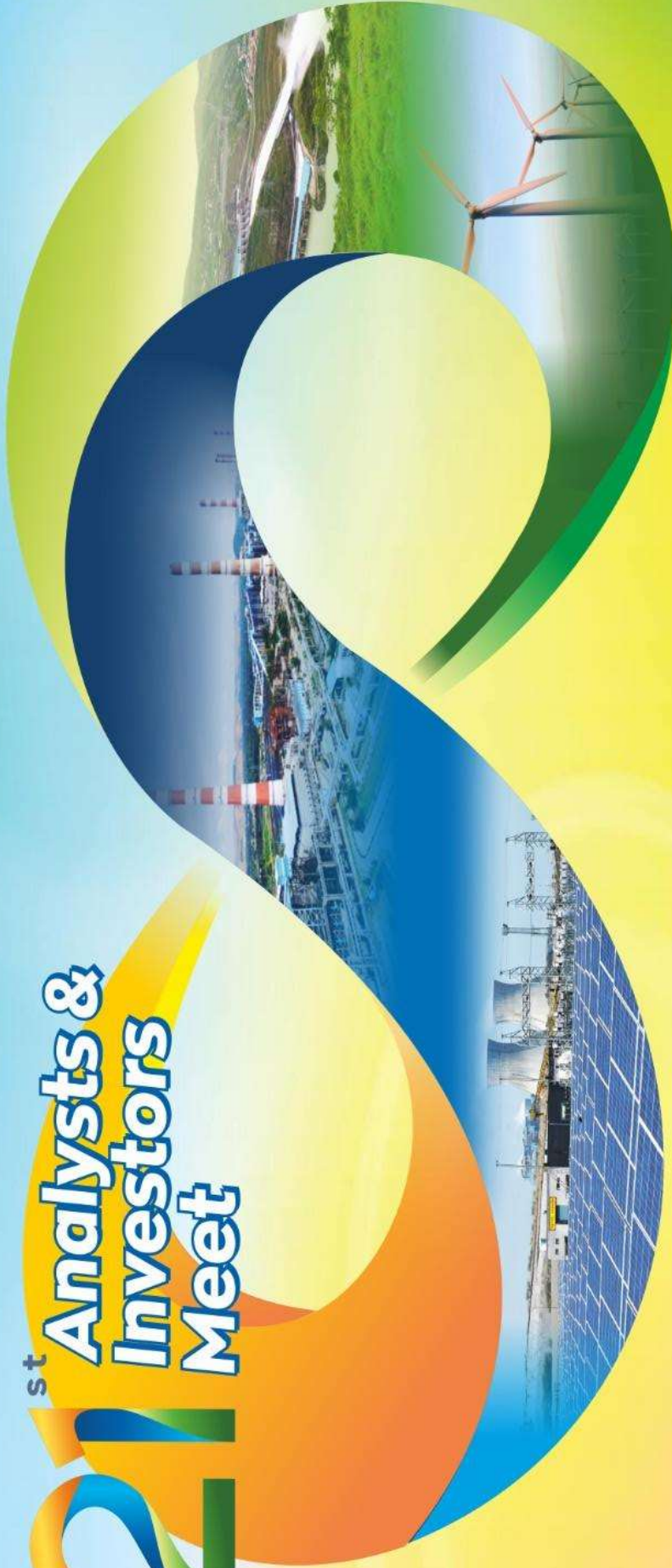
Executive Director (Finance)



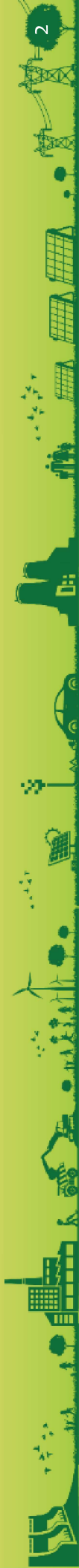
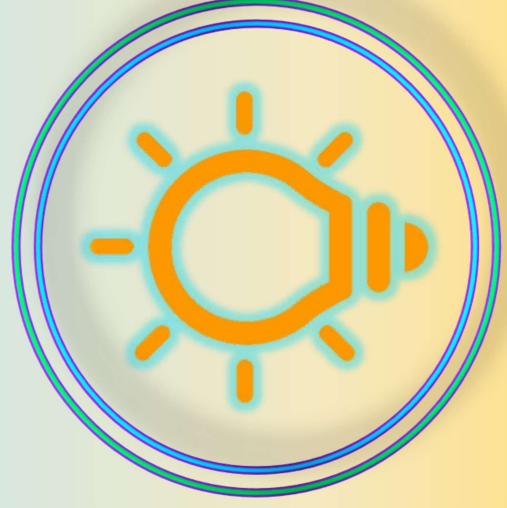
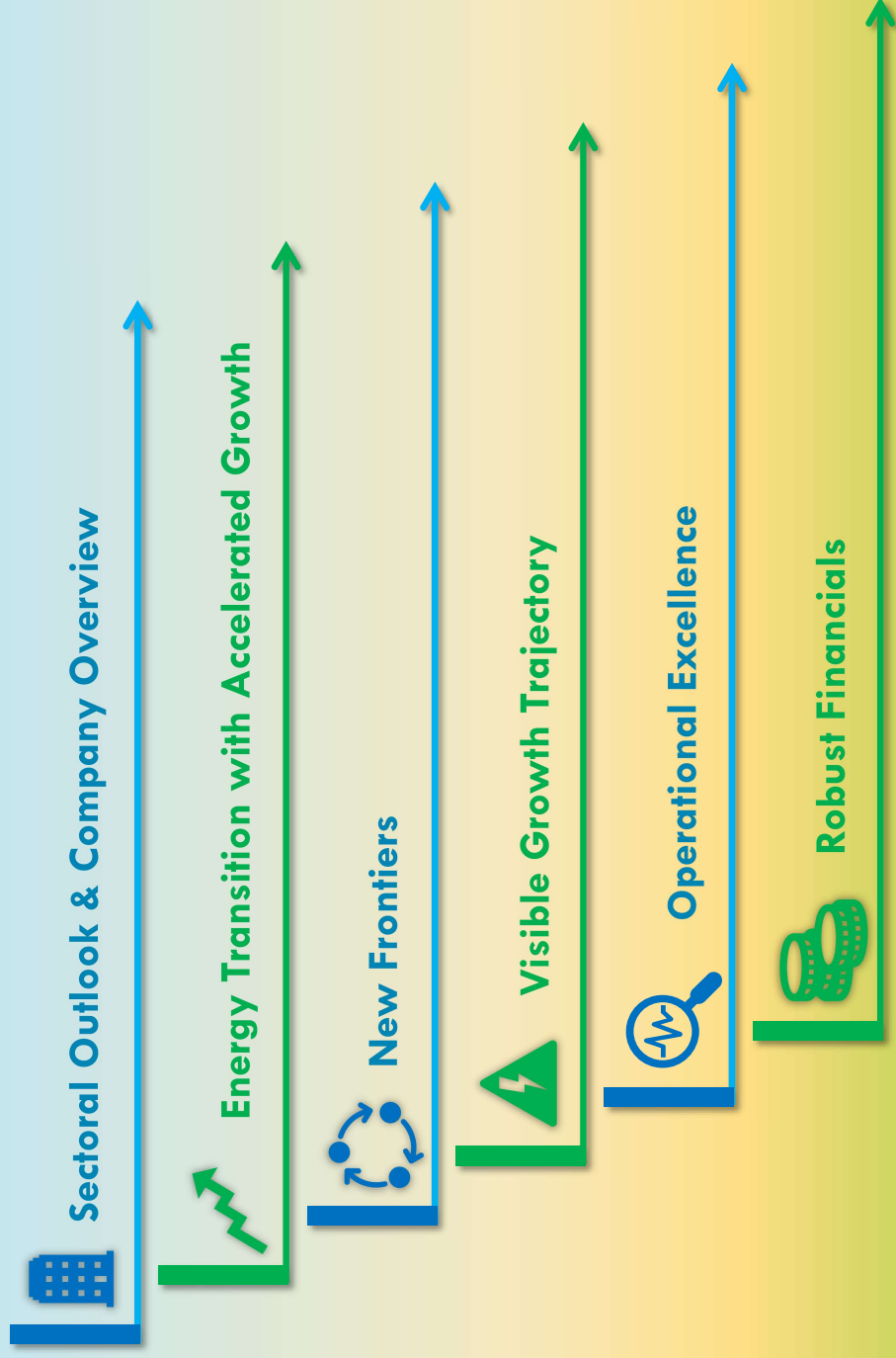
50 Years of Commitment to Nation  
Accelerated Growth with Sustainability

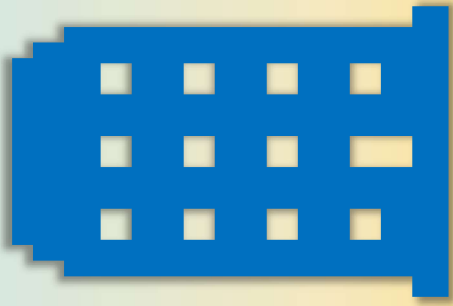


# 21<sup>st</sup> Analysts & Investors Meet



# Presentation Outline





# Sectoral Outlook & Company Overview



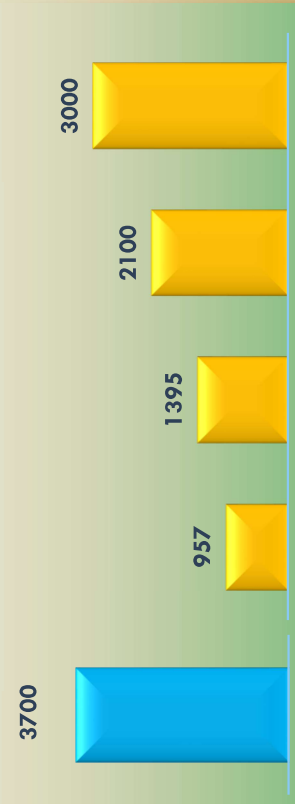
# Strong Growth Drivers for Power Sector in India



## 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

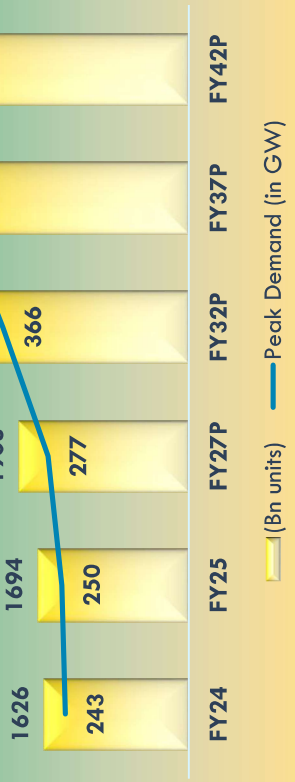
Increasing Per Capita Consumption (kWh/Year)



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

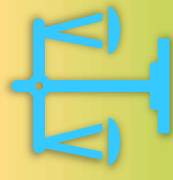
## SUPPLY

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

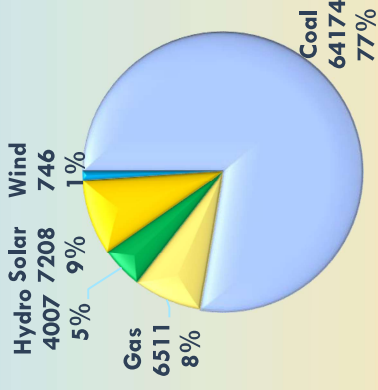


# Overview - Operation and Under Construction Capacity (in MW)

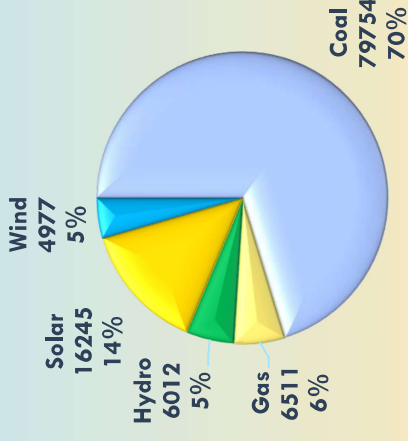


Source (as on June 30, 2025)	Operation	Construction Portfolio
Coal	55170	12520
Gas	4017	-
Hydro	808	811
Solar	983	503
<b>NTPC Standalone</b>	<b>60978</b>	<b>13834</b>
Coal (Subsidiaries)	1660	3060
Coal (JVs)	7344	-
Gas (Subsidiaries)	2494	-
Hydro (Subsidiaries)	2949	444
Solar (NEEPCO & THDC) (Subsidiaries)	55	311
PSP (THDC) (Subsidiary)	250	750
Wind (THDC) (Subsidiary)	113	-
Solar (NGEL & NREL) (Subsidiaries)	4355	5950
Wind (NGEL & NREL) (Subsidiaries)	190	3182
Solar (NGEL JVs)	1815	2273
Wind (NGEL JVs)	443	1049
<b>NTPC Group</b>	<b>82646</b>	<b>30853</b>
		<b>113499</b>

Under Operation - 82646 MW



Portfolio Capacity - 113499 MW



## Maintaining Energy Leadership

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



Share of Electricity Generated (during FY25)



# Accelerated Growth with Sustainability



## Largest Power Generator in India

Installed capacity of 83 GW

## Operational Excellence

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

## Accelerated Growth in Capacity

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

## Setting New Records

Highest Profit & Generation in FY25  
Highest Realization of ₹1.60 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





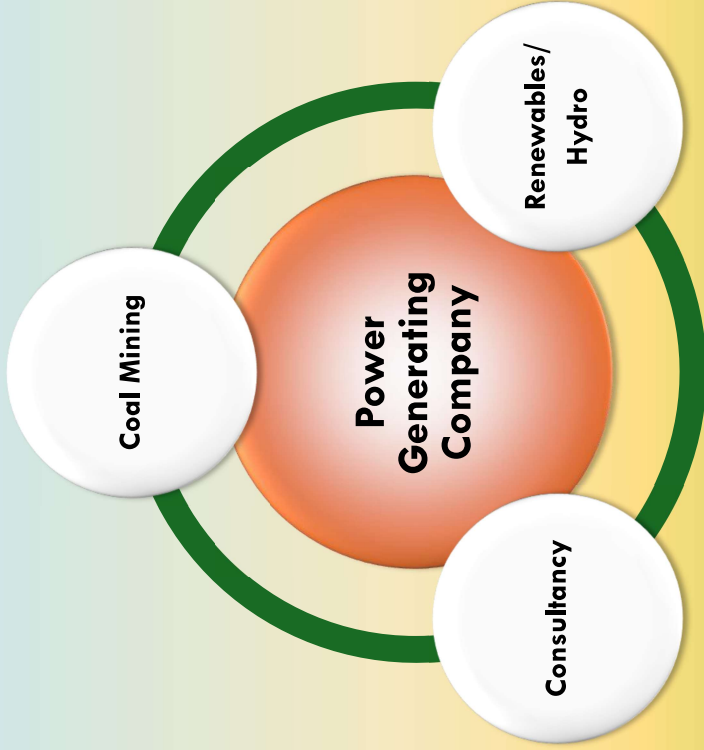
# Energy Transition with Accelerated Growth



# Spearheading Energy Transition ensuring Energy Security



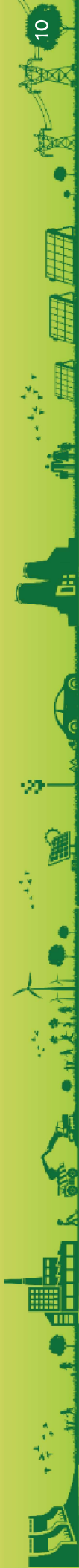
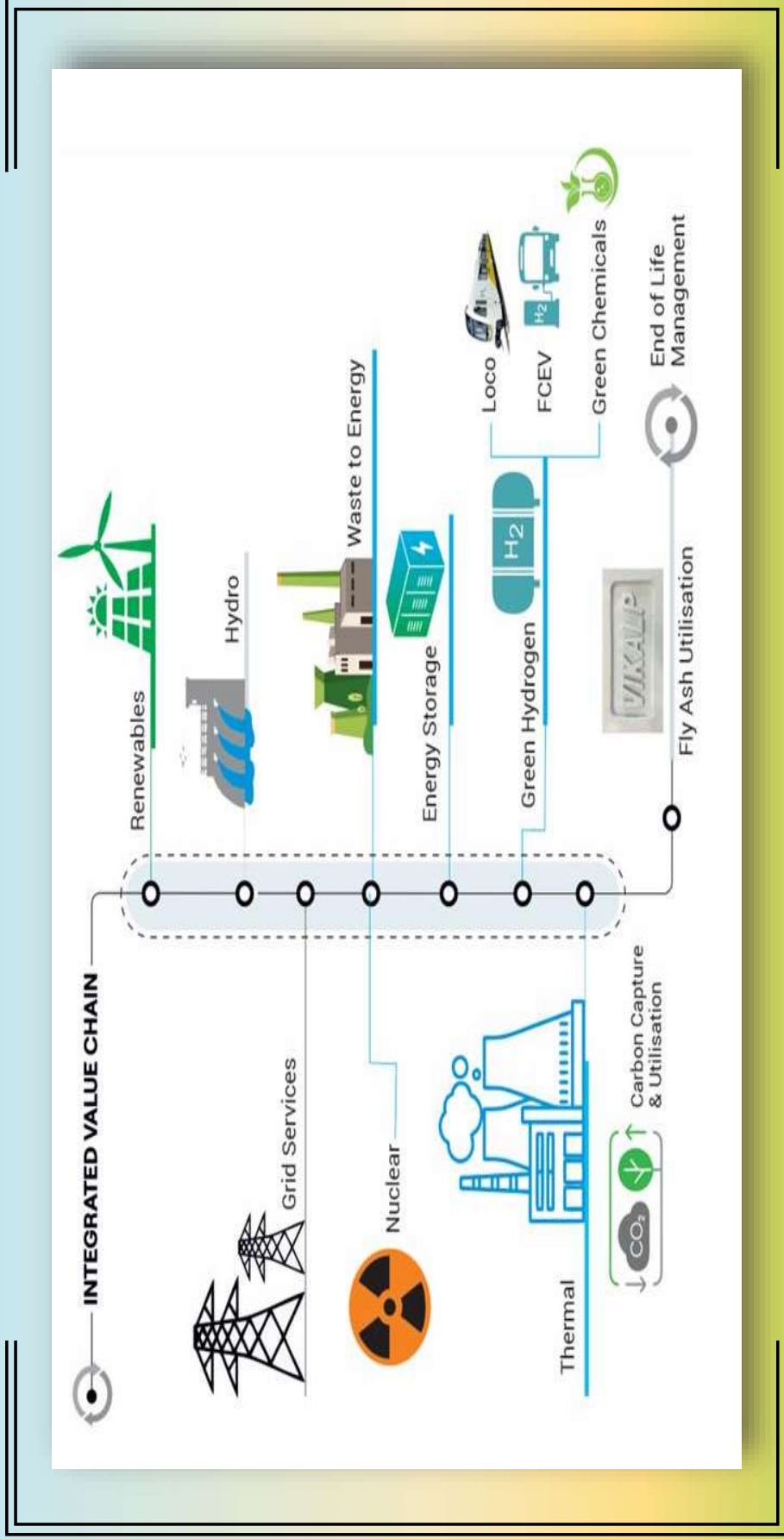
2025

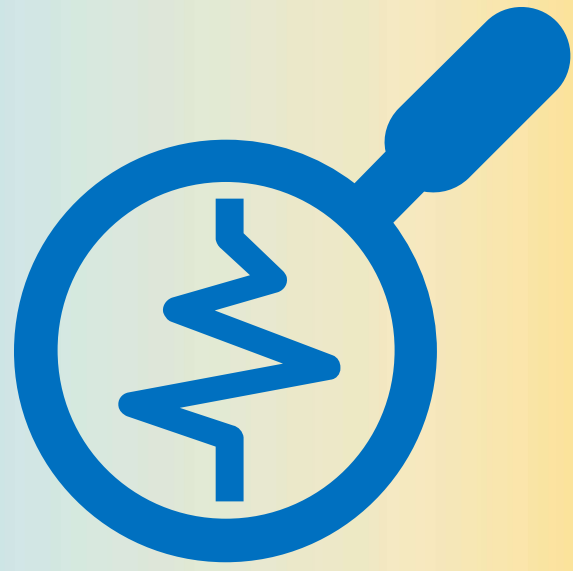


2032

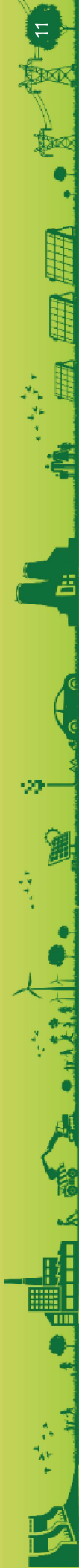


# Integrated Energy Spectrum - Moving towards Net Zero





# New Frontiers





## 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
<b>Total</b>	<b>5600 MW</b>

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



# New Frontiers - Green Hydrogen & Energy Storage

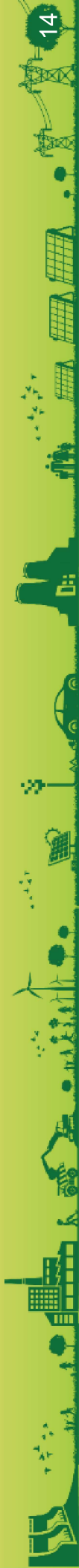


## Green Hydrogen Projects

<p><b>Green Hydrogen from Sea Water</b> 1 TPD Green Hydrogen Plant at Simhadri Commissioning expected in FY26</p>	<ul style="list-style-type: none"> <li>Green Hydrogen produced from Sea Water</li> <li>Waste heat of flue gas used to produce 'H2 Grade' Water</li> </ul>	<p><b>Green Hydrogen Hub at Pudimadaka, AP</b> Hon'ble PM laid the foundation stone</p>	
<p><b>Plasma Oxy-gasification based Green Hydrogen</b> 1 TPD Green Hydrogen Plant at NETRA Under tendering</p>	<ul style="list-style-type: none"> <li>'Green Hydrogen' generation from MSW-RDF / Agri-waste</li> <li>Plasma assisted 'Oxy Gasification'</li> <li>High purity hydrogen (&gt; 99.9%)</li> </ul>		

## Energy Storage Projects (Under Construction)

<p><b>Electro-Mechanical Energy Storage (CO2 Battery)</b> 160 MWh Plant at NTPC Kudgi (Construction commenced in January 2025)</p>	<p><b>Electro-Chemical Energy Storage (Vanadium Redox Flow Battery)</b> 3 MWh Plant at NTPC NETRA (Commissioning expected in FY26)</p>	<p><b>Thermal Energy Storage (Phase Change Material)</b> 3.6 MWh Plant at NTPC Dadri (Construction commenced in January 2025)</p>
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# New Frontiers - Carbon Capture, Utilization & Storage (CCUS)



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



- 1 x 20 TPD Plant (Vindhyachal) **(Commissioned)**
- 1 x 25 TPD Plant (Simhadri) **(Construction in progress)**

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

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





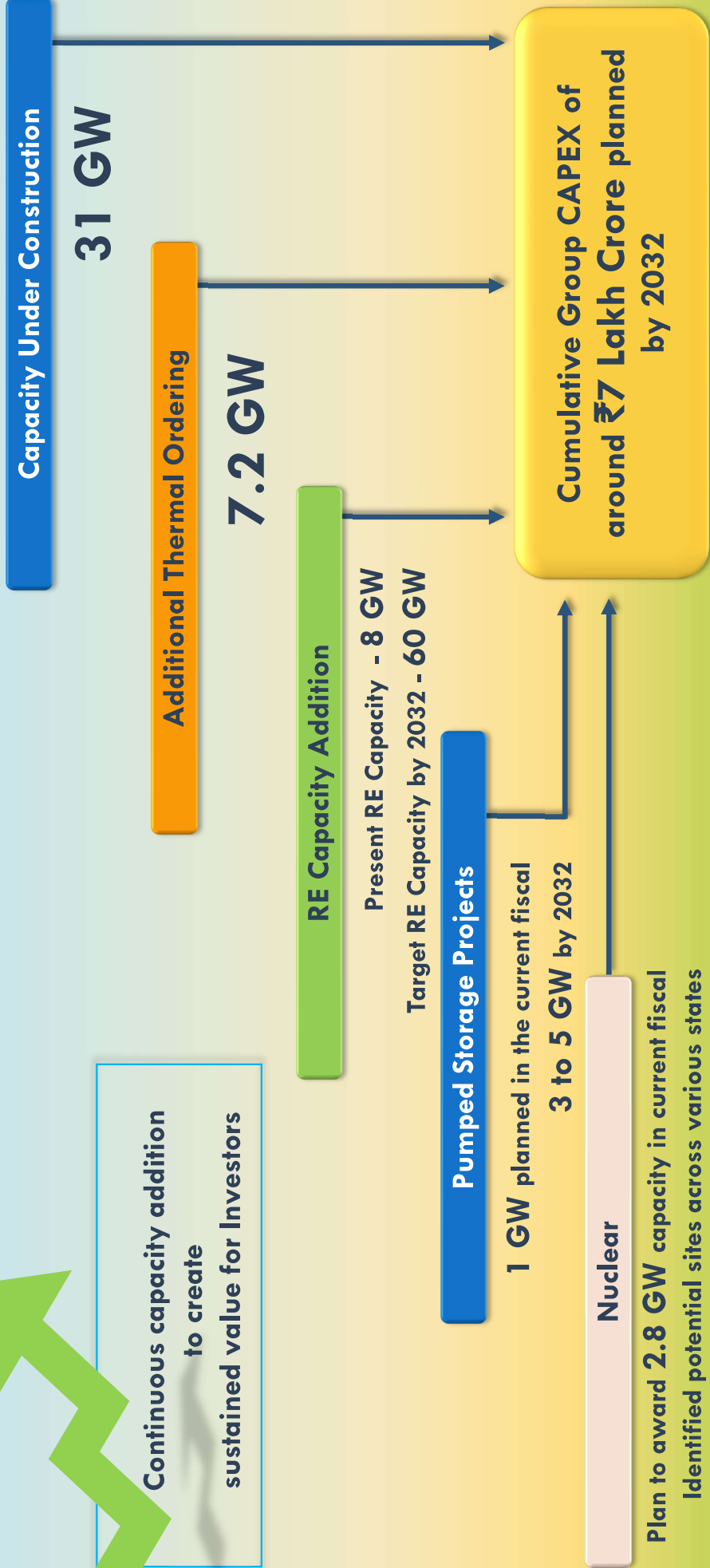
# Visible Growth Trajectory



# Visible Growth Trajectory

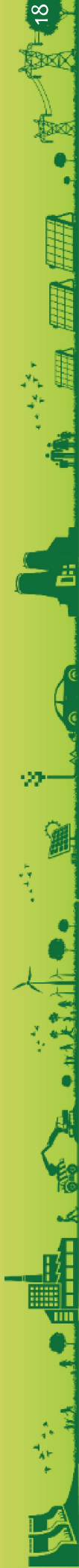


Continuous capacity addition to create sustained value for Investors





# Operational Excellence



## Proven Operational Excellence



### Maintaining Leadership

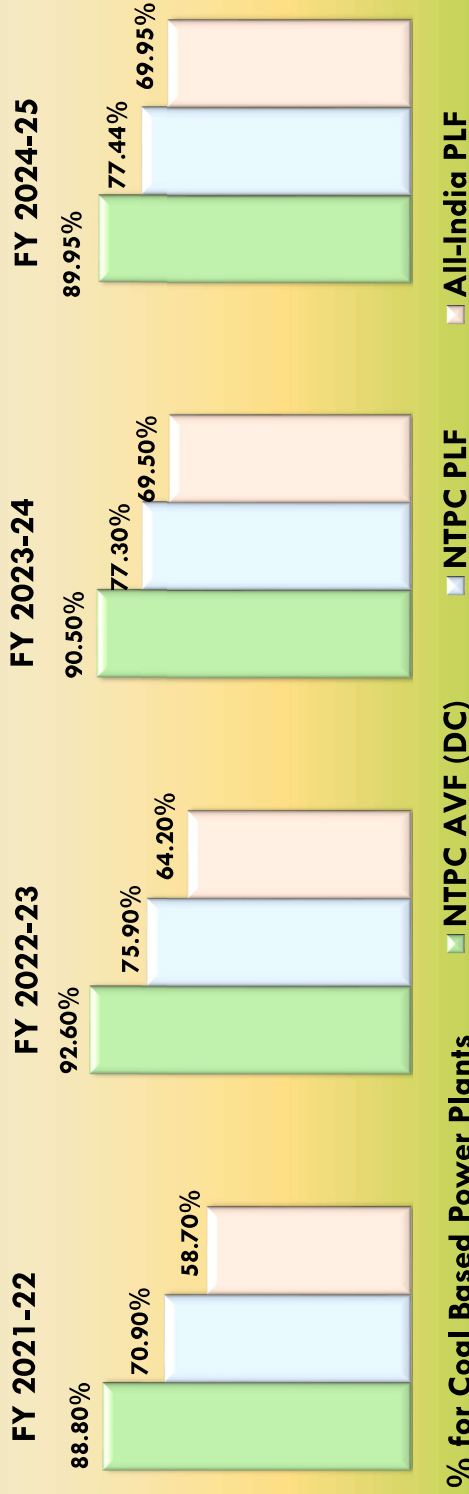
- NTPC Coal Stations achieved PLF of 77.44% in FY25 with a clear lead over All India PLF
- Highest ever Group generation of 439 BUs in FY25, with growth of 4%

### 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



% for Coal Based Power Plants

■ NTPC AVF (DC)

■ NTPC PLF

■ All-India PLF



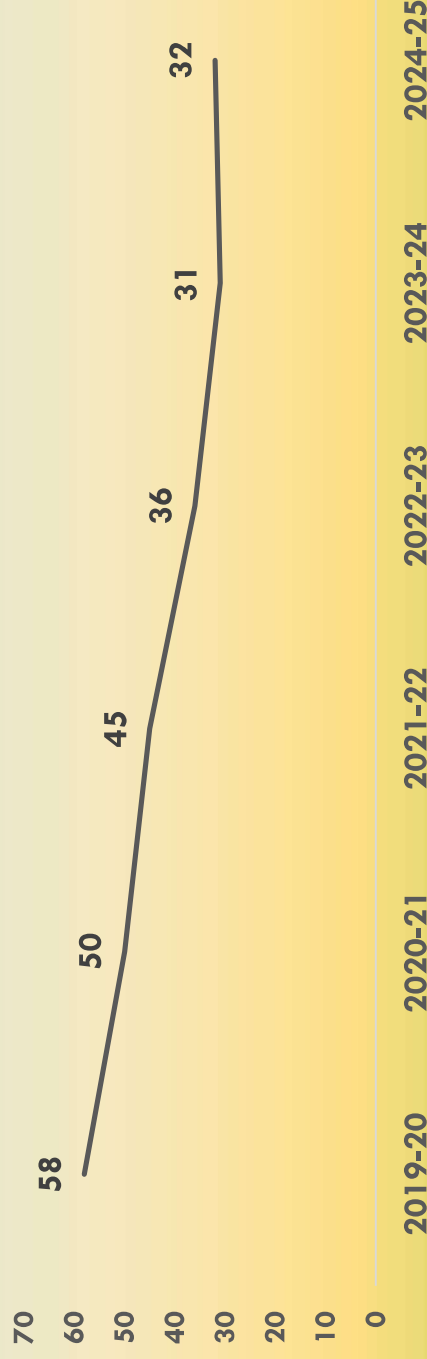
## Sustaining Competitive Tariff & Realization



### Payment Security

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

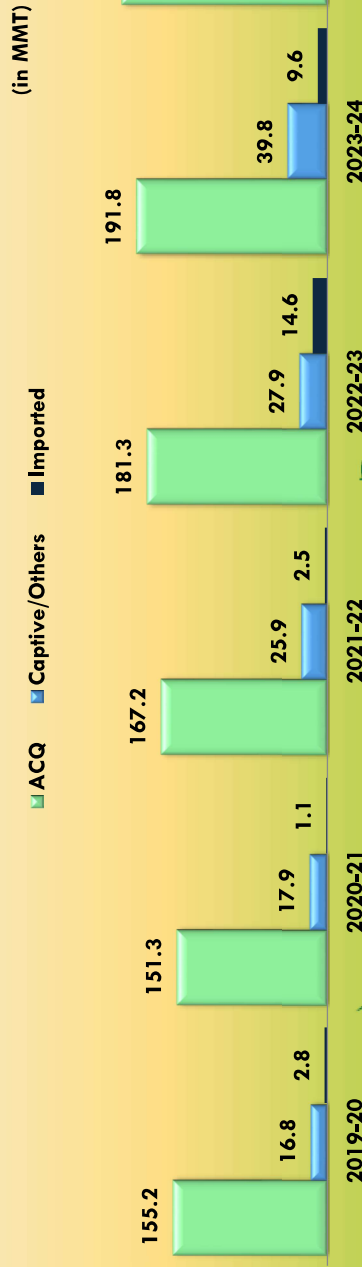
- Rationalized ACQ for optimum utilization of coal and better stock management at our power plants

### 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



# Coal Mining



9

Coal Blocks

~5 BT

Geological Reserves

91.6  
MMTPA

Peak Mining Capacity

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

10.88 MMT

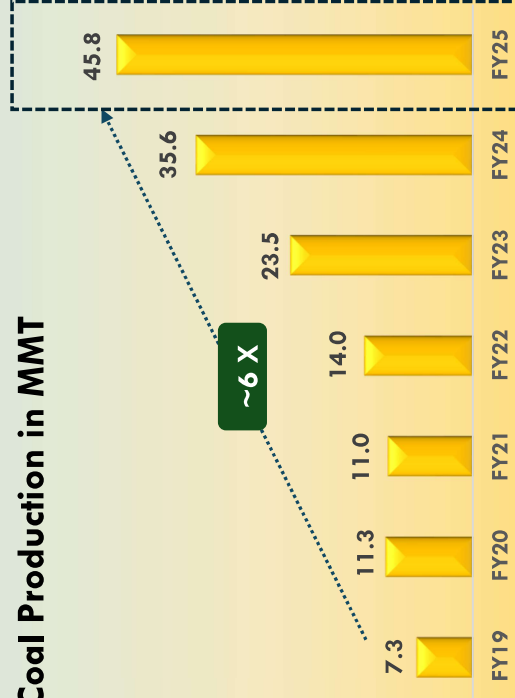
NTPC Group Coal Production in Q1FY26

161.6 MMT

Cumulative Coal Production since inception till Q1FY26

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

## Coal Production in MMT



# Key Sustainability initiatives



- 

**NTPC Brighter Plan 2032**  
With well-defined KPIs and Targets
- 

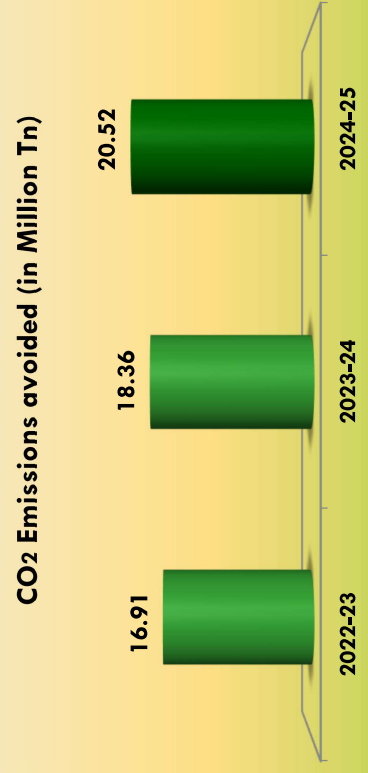
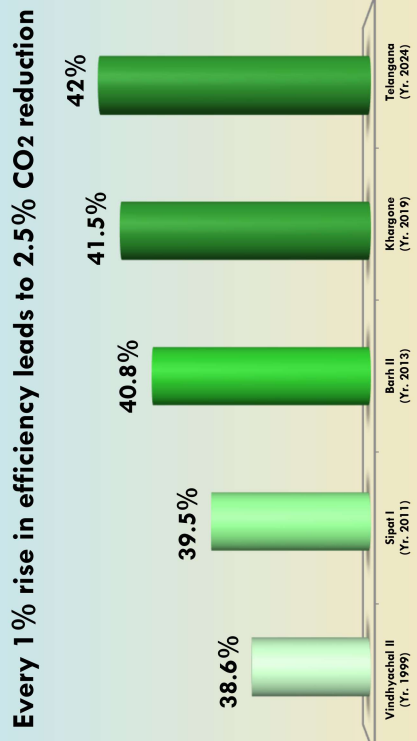
**Net Zero**  
Net Zero Townships (Scope 2)
- 

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

**Water Conservation**  
Achieved specific water consumption of 2.58 m<sup>3</sup>/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



## 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**

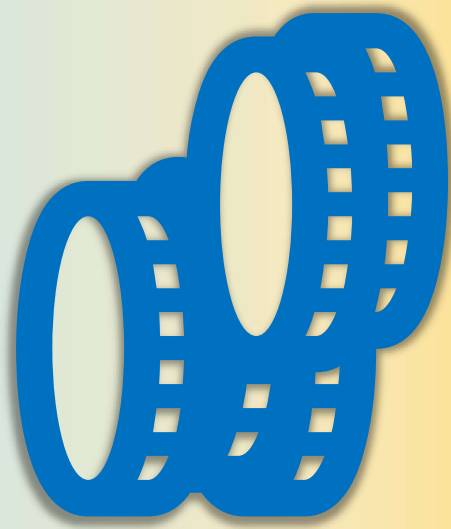


Recognized as one of the “**Most Preferred Workplaces**”

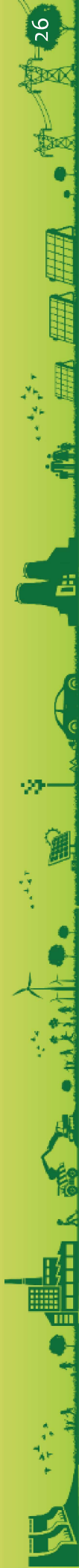


Recognised as one of the “**World’s Best Employer 2024**” in Forbes World’s Best Employer List





# 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%
<b>Profit for the period</b>	<b>19,649</b>	<b>18,079</b>	<b>9%</b>	<b>4,775</b>	<b>4,511</b>	<b>6%</b>



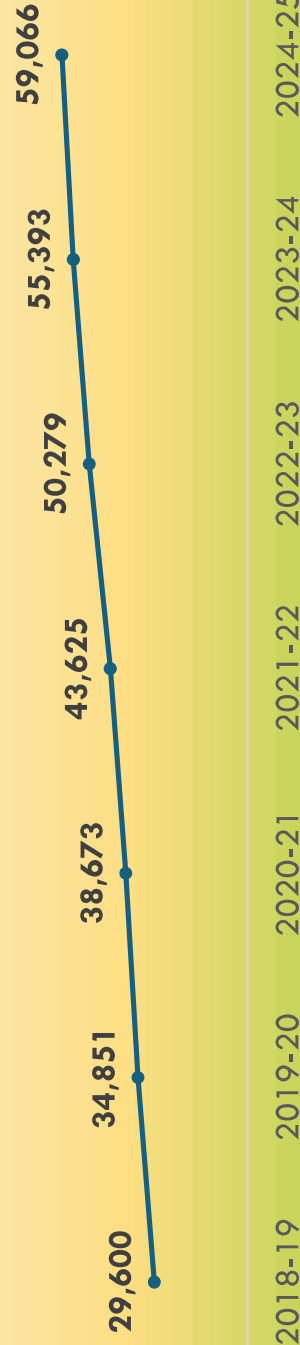
## Group Financials - Getting Stronger



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

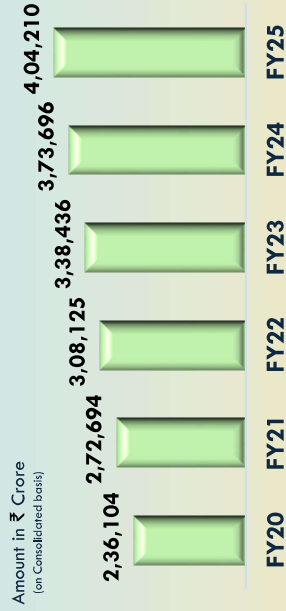


# Growth with Balanced Payouts



## Growing Gross Fixed Assets

## Growing Group Capex



## Gross Fixed Assets

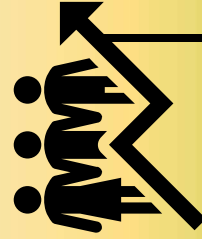
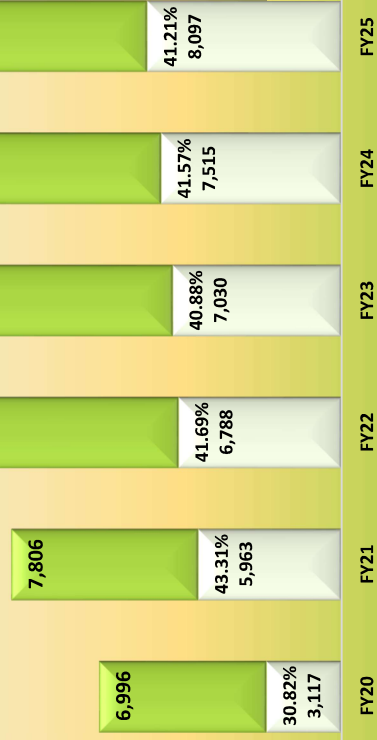
30.06.2025 - ₹4,19,648 Crore  
30.06.2024 - ₹3,77,251 Crore

## 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

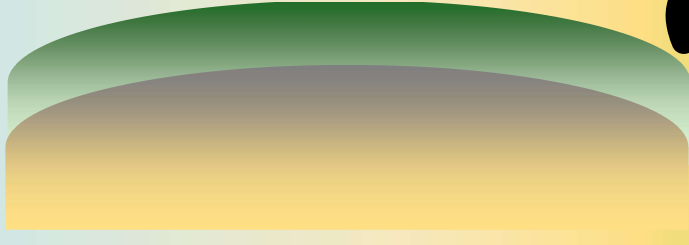
Strategic Diversification into Clean Energy

Clear and Ambitious Growth Roadmap

Robust Operational and Financial Foundation

Government Support and Regulatory Visibility

Where Scale meets Sustainability





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