



NLC India Limited

A "Navratna" – Government of India Enterprise

Corporate Presentation

May 2024

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- 1** **Company Overview & Performance Highlights**
- 2** **Financial & Operational Performance**
- 3** **Market Opportunity**
- 4** **Growth Plans**
- 5** **Corporate Social Responsibility**



Company Overview & Performance Highlights



A 'Navratna' CPSE incorporated in 1956. Under the administrative control of Ministry of Coal



Paid up Equity Share Capital - Rs. 1,386.64 Crore (GoI holding - 72.20% as on 31.03.2024)



Mining , Power Generation ,Trading of Power and Consultancy services



Regional Presence to National Level Presence



Advanced Technology



Robust Financial Performance in Revenue, Profit and Net worth. Highest domestic credit rating . Consistent track record of Dividend.



Skilled Manpower



*Present Composition of Board - Total 11 Directors (6 Functional Directors including CMD, 2 Government Nominee Directors and 3 Independent Directors).**

* Govt. of India has sanctioned the total strength of 16 Directors on the Board of the Company but presently, the Board comprises of 11 nos. of Directors. Ministry of Coal , the Administrative Ministry, has been appraised to fill the post of five Independent Directors.

Board of Directors



Shri M. Prasanna Kumar
Chairman and Managing Director

Part-time Official Directors



Smt. Vismita Tej (IRS)
Additional Secretary,
Ministry of Coal, GoI.



Dr. Beela Venkatesan (IAS)
Principal Secretary to Govt of TN,
Energy Department

Functional Directors



Shri K.Mohan Reddy
Director - Planning & Projects



Dr. Suresh Chandra Suman
Director - Mines



Shri Samir Swarup
Director - Human Resource



Shri M. Venkatachalam
Director - Power



Dr. Prasanna Kumar Acharya
Director - Finance

Independent Directors



Shri Subrata Chaudhuri
Independent Director



Shri Prakash Mishra
Independent Director



Prof. Nivedita Srivastava
Independent Director

Note : Composition of the Board of Directors as on 31.03.2024

Vision & Mission and Core Values

Vision

To emerge as a leading Mining and Power Company, with social responsiveness accelerating Nation's growth

ESG Vision :

To continue to be a socially responsive company.

Mission

- *Continue to develop and sustain expertise in Power and Mining with focus on growth and financial strength*
- *Be socially responsive, achieve sustainable development and be sensitive to emerging environmental issues*
- *Strive to achieve excellence in processes and practices*
- *To nurture talent, encourage innovation and foster collaborative culture*

ESG Mission

- *To play an active role in society and be sensitive to emerging environment issues.*

Core Values

N- National Orientation

C - Customer Focus

L - Learning , Development and Resilience

O - Organisational Pride and Growing Together

C- Commitment to Excellence

M - Mutual Trust and Teamwork

I - Innovation and Creativity

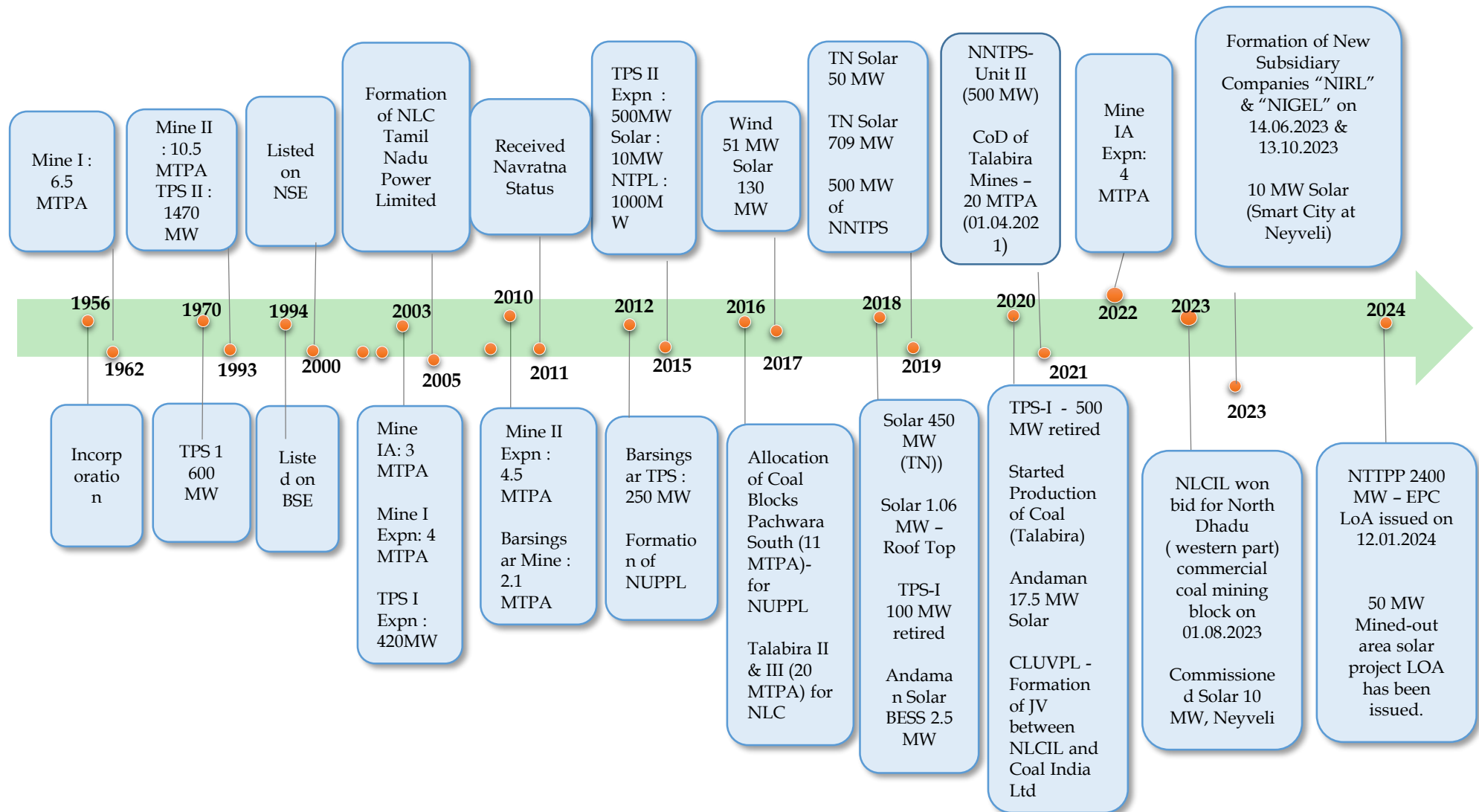
M - Motivation

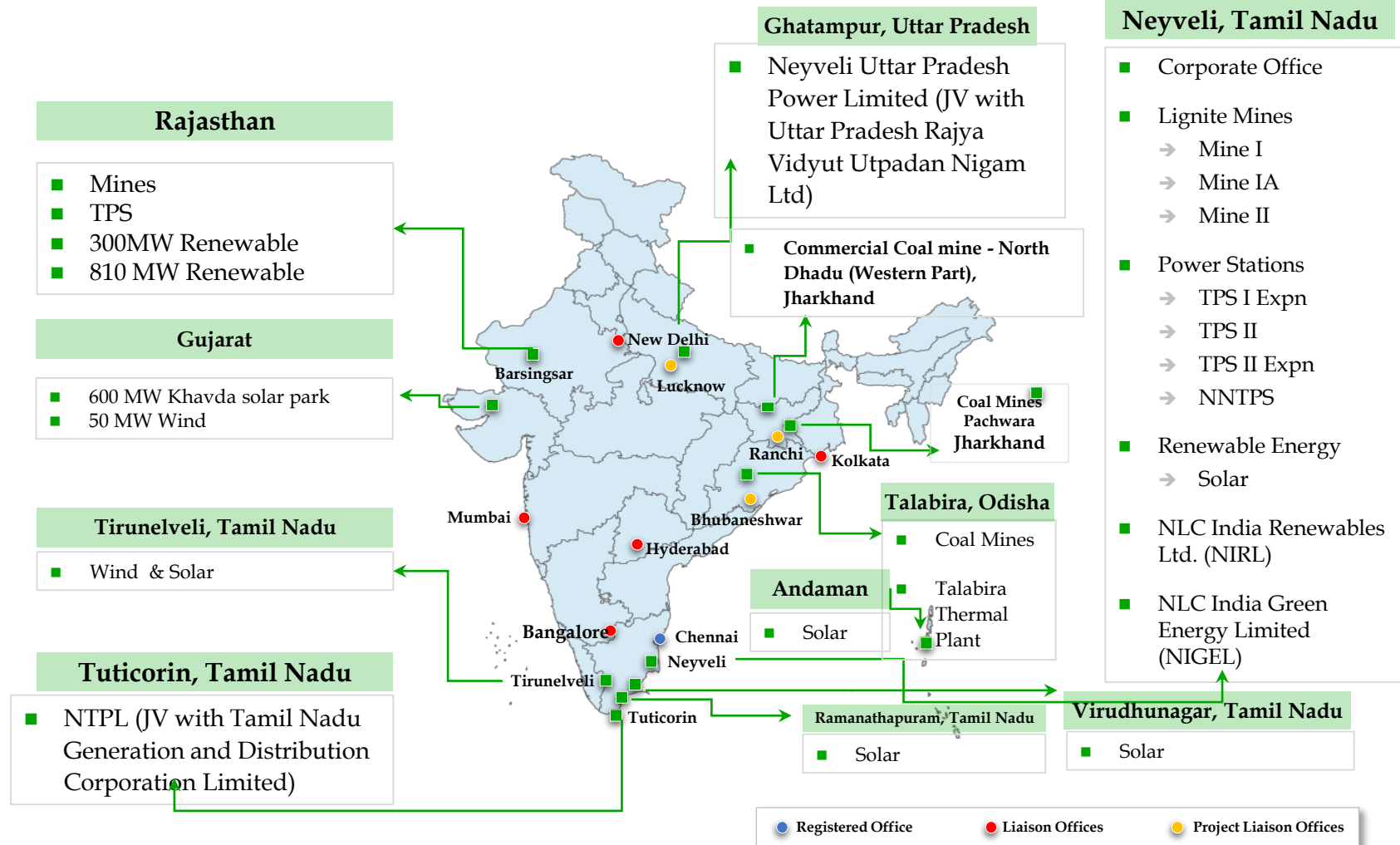
L - Loyalty and Leadership

I - Integrity, Accountability, and Transparency

T - Total Quality and Total Wellness

S - Safety and Sustainability



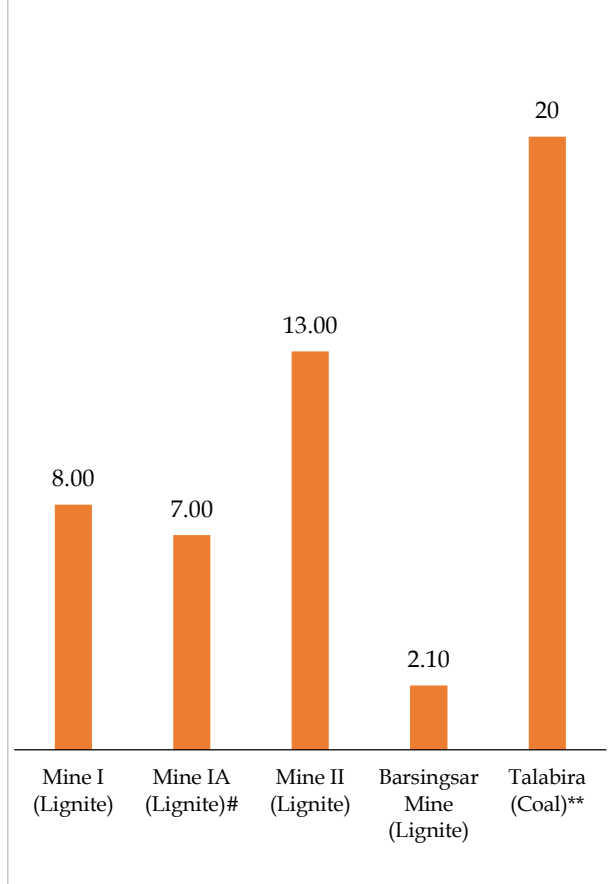


Note:- Map not to scale;

TPS = Thermal Power Station.

Mining

Total Mining Capacity - 50.10 MTPA*

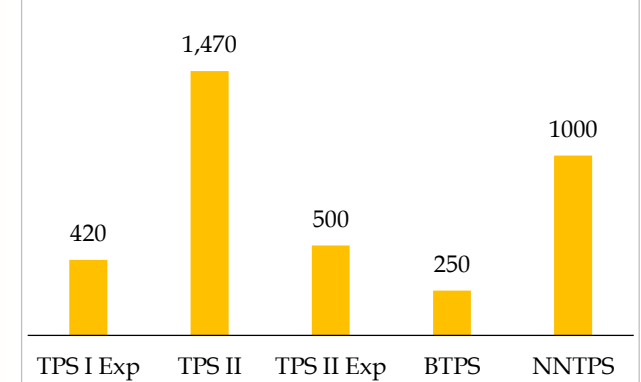


*Existing Capacity as on 31.03.2024.

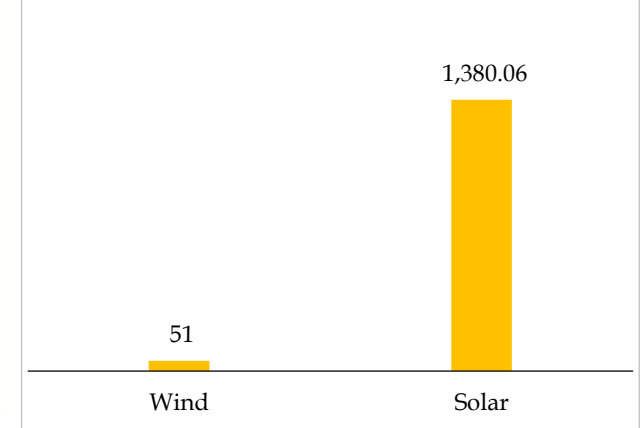
** CoD of Talabira Coal Mines is on 01.04.2021 Achievement of Full Capacity expected by Jan 2027

Power Generation

Thermal Power Station - Capacity 3,640MW*



Renewable Energy Capacity 1431.06 MW*

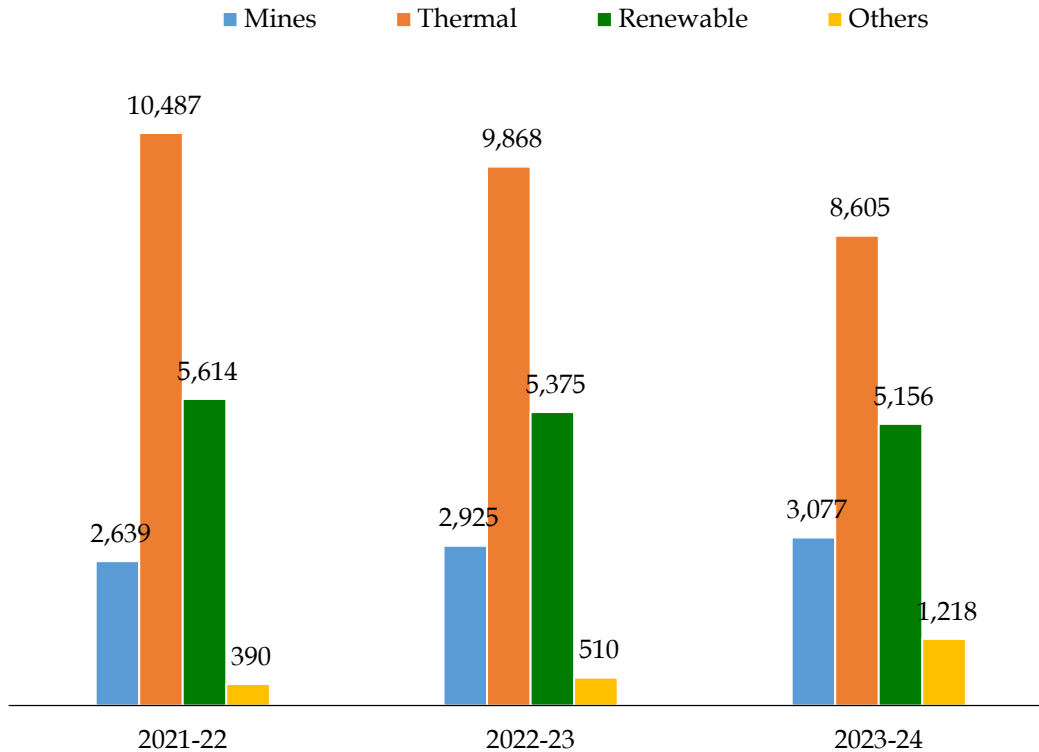


CoD of Mine IA Exp is on 01.04.2022 and achievement of full capacity of 4 MTPA expected by 2028

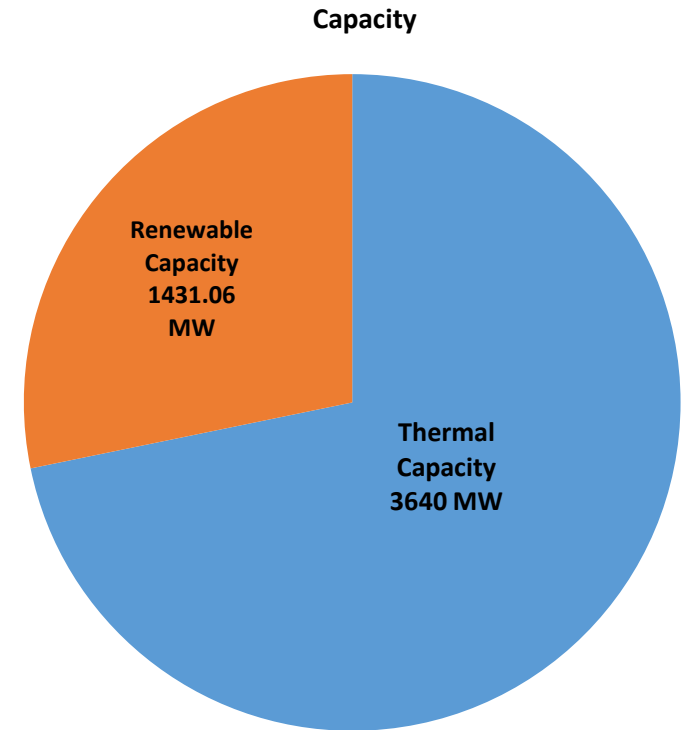
Segment Investments & Green Portfolio

Net Book Value*

Rs in Crore



Installed Generation Capacity#



*Note : Source from NLCIL Financial Results/ Annual Reports and figures representing NLCIL Standalone as on 31st March'2024

#As on 31.03.2024

Expertise in Open Cast Mining & Power Generation

Mining

- Vast experience in operation, maintenance and project management and consultancy in open- cast mining
- Asset bank of specialised mining equipments for open cast mining:
 - ➔ German excavation technology
 - ➔ 76 Number of SME's
 - ➔ 112.75 Conveyor length – KMs

Power Generation

- Experience in operating lignite based thermal power station and consultancy in Renewable power project.
- NLCIL is the 1st Company to cross 1 GW of renewable energy, which is highest ever achieved by any CPSE.
- Strong in-house capabilities in renewable energy Project Management, Operation and Maintenance and Basic Engineering.

Lignite / Coal Resources for Captive Consumption

- Captive fuel source with power plants located at the pit heads of Lignite mines
- Greater flexibility in terms of adjusting the lignite production to adjust for variations in power demands and power generation at thermal power plants
- Out of total measured lignite reserves of 7511.52 Million Tonne in India as on 31.03.2023 Neyveli Lignite Field, Barsingsar, Bithnok and Hadla of NLCIL accounts for 3011.41 Million Tonne.
- Coal from Talabira is presently transferred /sold to NTPL, NTPC and Open sales
- Talabira Coal Mines Production reached **12.64 Million Tonnes** for the year ended 31.03.2024

Lignite / Coal Mining of NLCIL

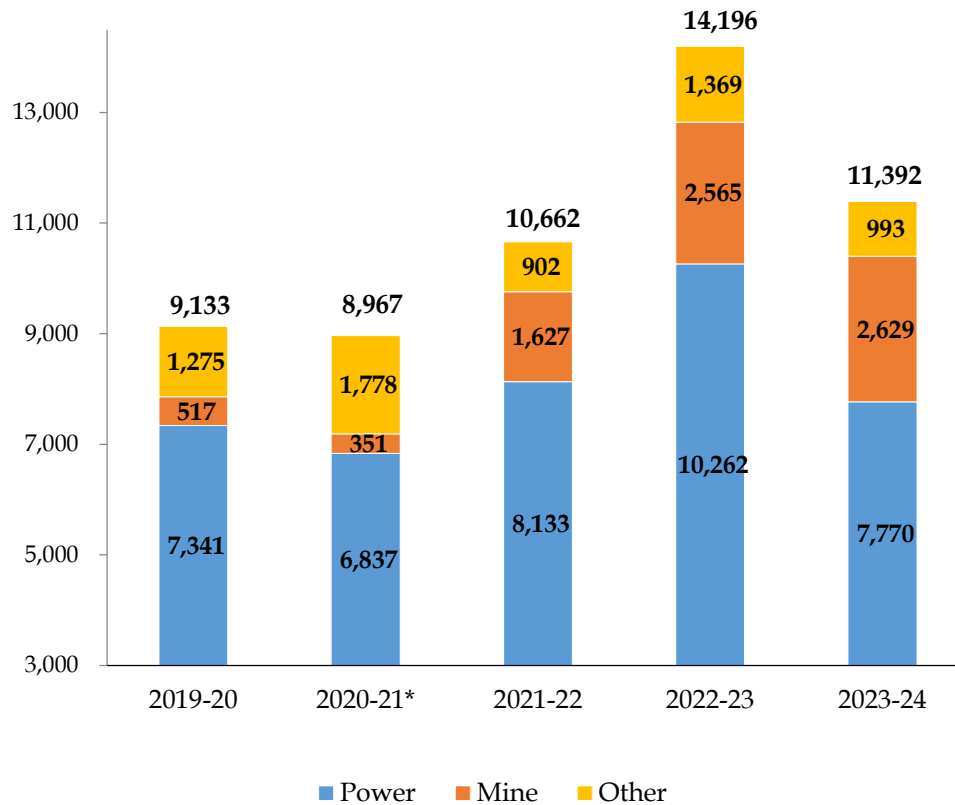
- All India Lignite production during 2023-24 is 42.82 Million Tonne. Out of the same NLCIL share is 23.68 Million Tonne, which is 55 % as compared to 53 % in FY 2022-23
- Operating the Talabira Coal mine through MDO Mode with target of attaining full rated capacity by 2027-28



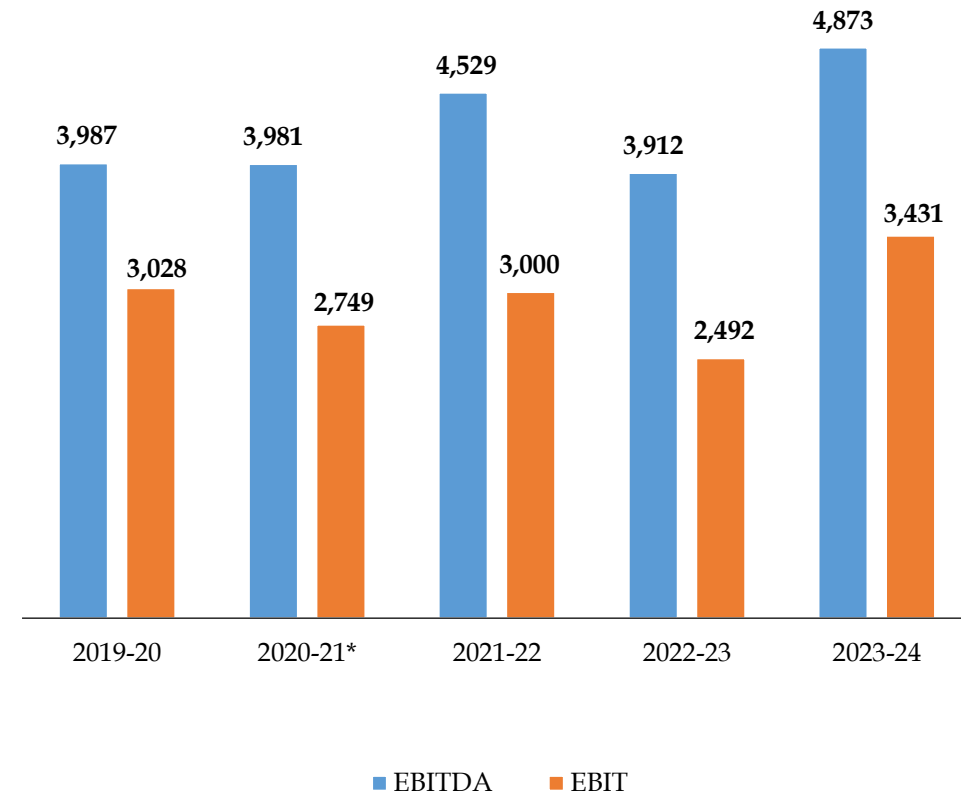
2

Financial & Operational Performance

Total Income (Rs in Crore)



EBITDA & EBIT^ (Rs in Crore)

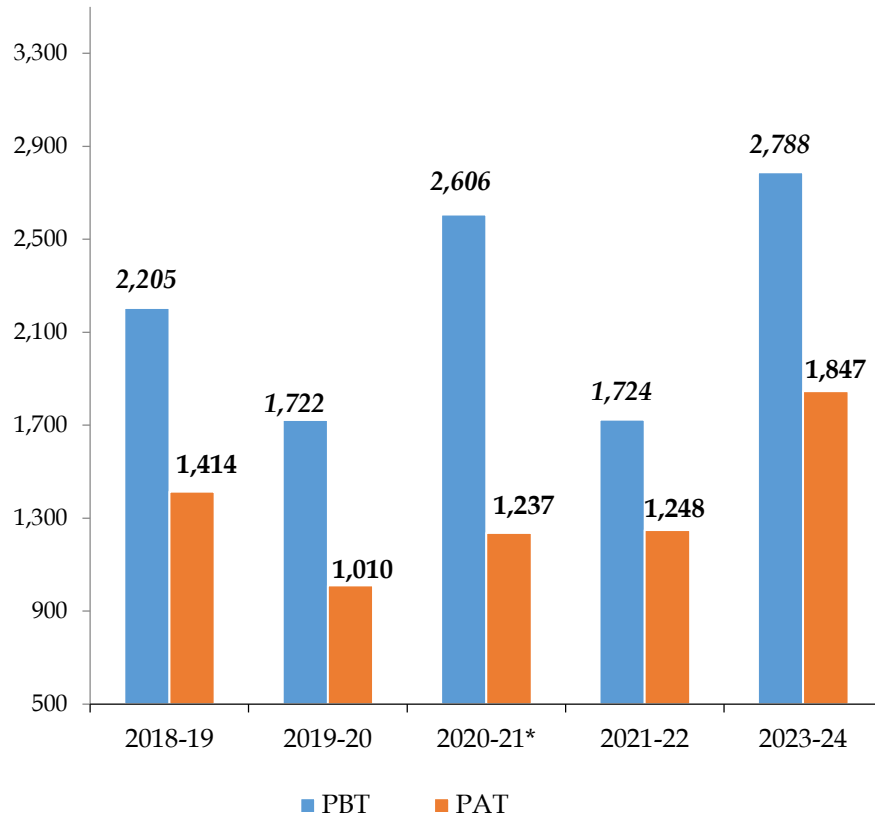


* Restated 2020-21

^ EBITDA, EBIT computed considering Net Movement in Regulatory Expenses / Income and without considering Exceptional Item.

Note : Source from NLCIL Financial Results & Annual Reports and figures representing NLCIL Standalone;

PBT & PAT (Rs in Crore)



Key Financial Ratios

	2019-20	2020-21*	2021-22	2022-23	2023-24
OPM^ (%)	22.90	13.65	21.66	11.73	22.30
NPM (%)	15.48	13.78	12.47	11.71	16.10
ROCE (%)	9.64	9.10	11.29	9.27	7.89
RONW (%)	11.85	7.86	9.03	8.53	11.55
Current Ratio	1.22	1.23	1.64	1.92	1.65
Quick Ratio	1.02	0.99	1.36	1.71	1.40

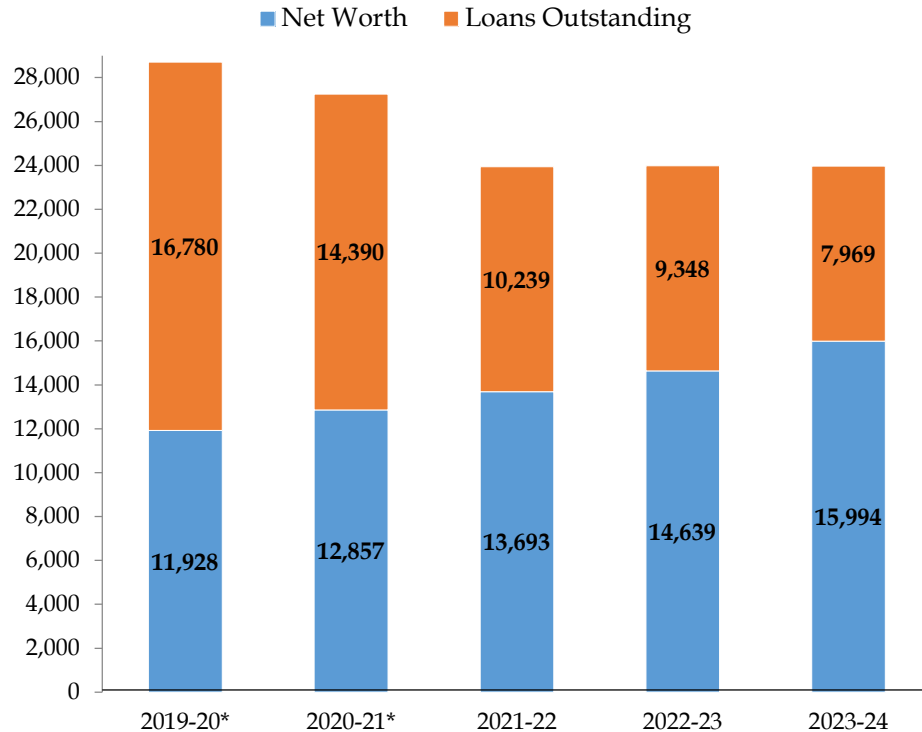
* Restated financials as at 01.04.2020 and FY 2020-21

^ OPM computed considering Net Movement in Regulatory Expenses/Income and without considering Exceptional Item.

PBT considering Net Movement in Regulatory Deferral Income/Expenses. ROCE is EBIT without Exceptional/ Capital Employed

Note : Source from NLCIL Financial Results & Annual Reports and figures representing NLCIL Standalone;

Networth & Loans Outstanding (Rs in Crore)



Credit Ratings (Long Term Borrowings)

Agency	Rating
CRISIL	AAA/Stable
ICRA	AAA/Stable
CARE Rating	AAA/Stable
Infomerics Rating	AAA/Stable
India Rating	AAA/Stable
Acuite Ratings & Research	AAA/Stable

Credit Ratings (Commercial Paper)

Agency	Rating
CARE	A 1+
India Rating	A 1+

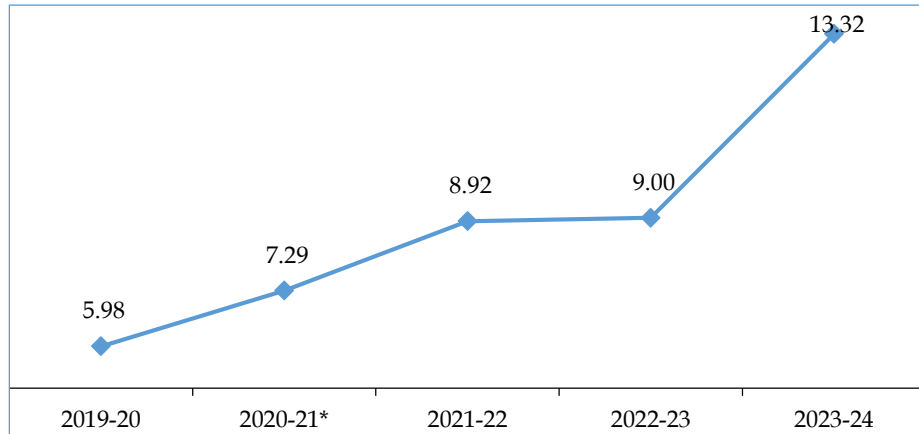
Credit Rating (Bill Discounting)

Agency	Rating
India Rating	A 1+

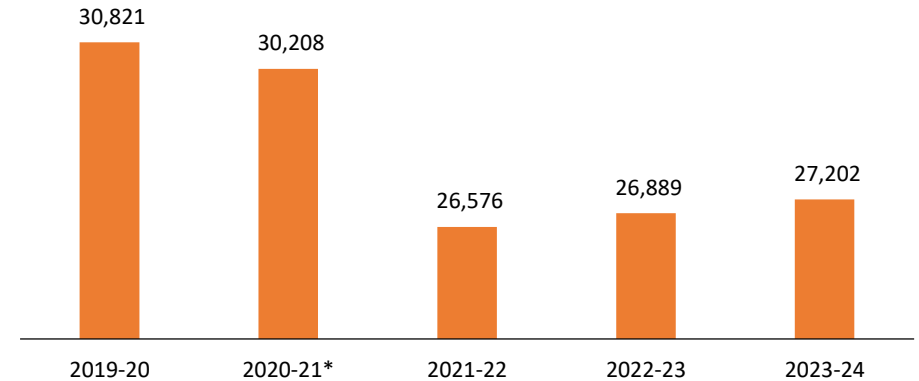
Note : Source from NLCIL Financial Results & Annual Reports and figures representing NLCIL Standalone as on 31st March'2024

* Restated financials as at 01.04.2020 and FY 2020-21

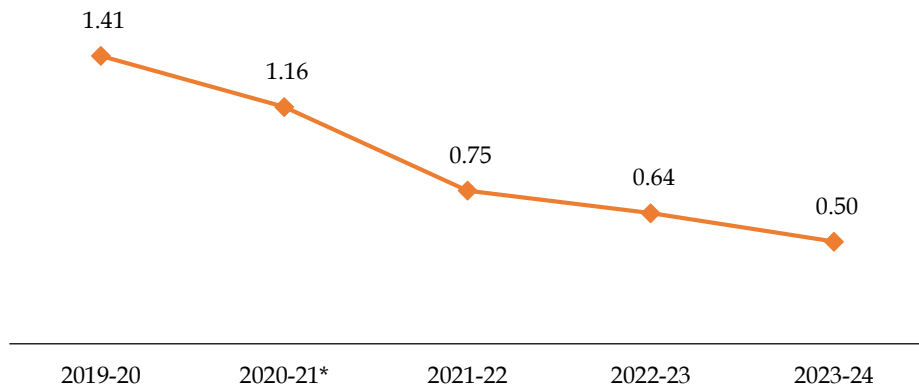
Earnings Per Share (Rs.)



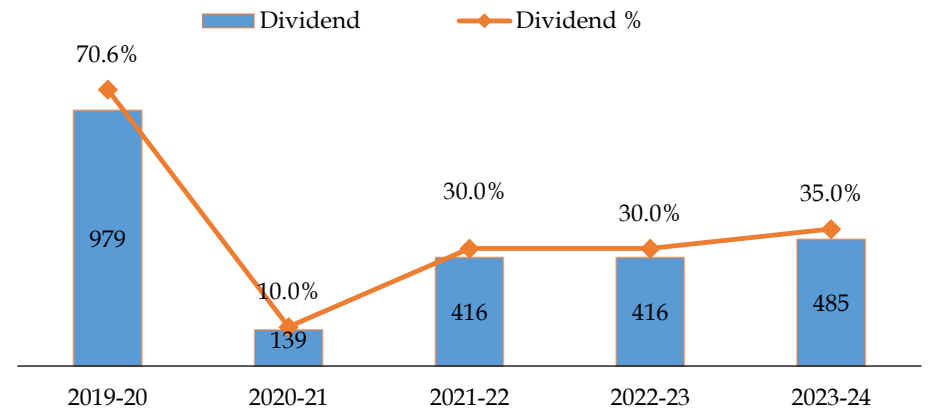
#Capital Employed (Rs in Crore)



Debt-Equity ratio



^Dividend Trend (Rs in Crore)



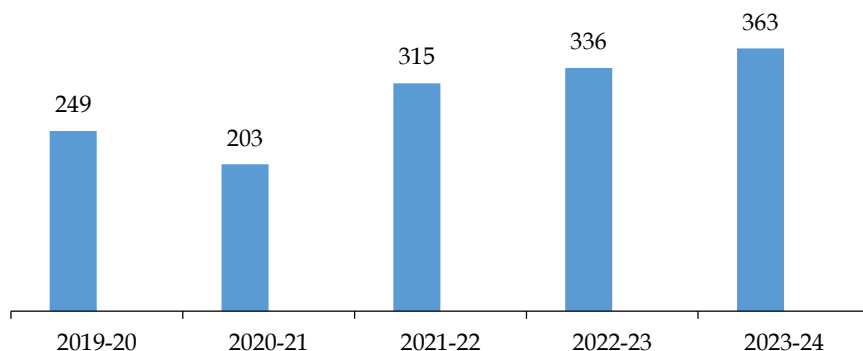
*Restated FY : 2020-21

Capital employed is tangible net worth plus outstanding borrowings and DTL less Intangible Assets

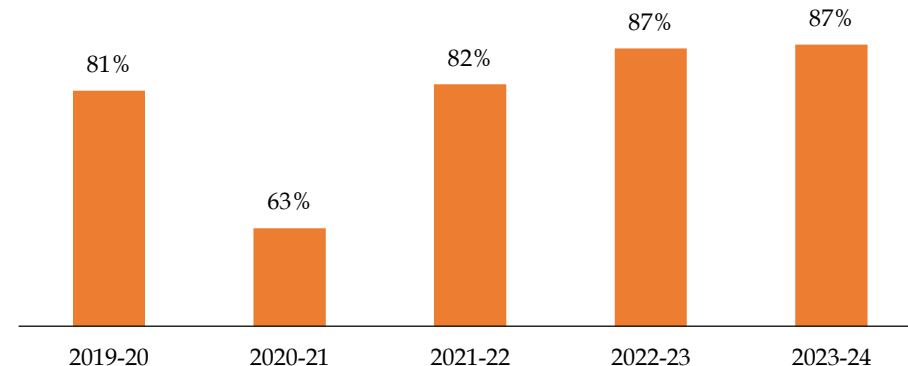
Note : Source from NLCIL Financial Results & Annual Reports and figures representing NLCIL Standalone

^ Dividend is on Payment basis

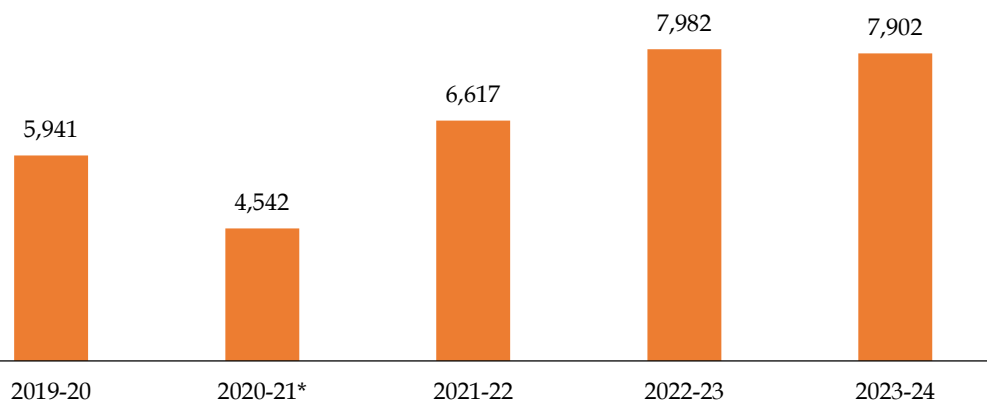
Lignite & Coal Production (LT)**



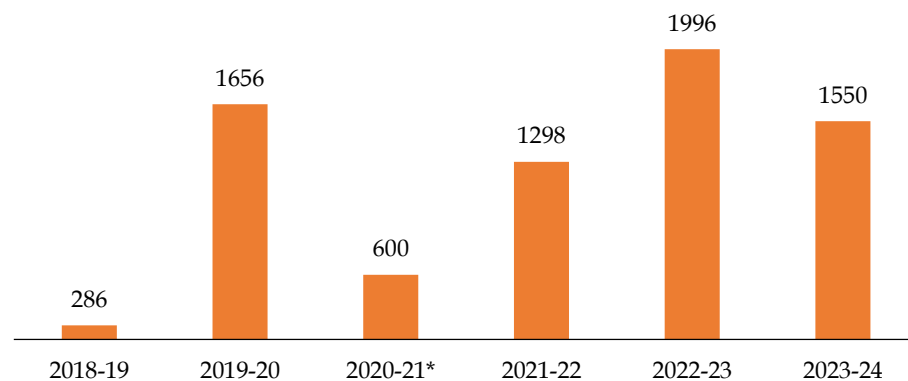
#Capacity Utilization (%)



Revenue (Rs in Crore)

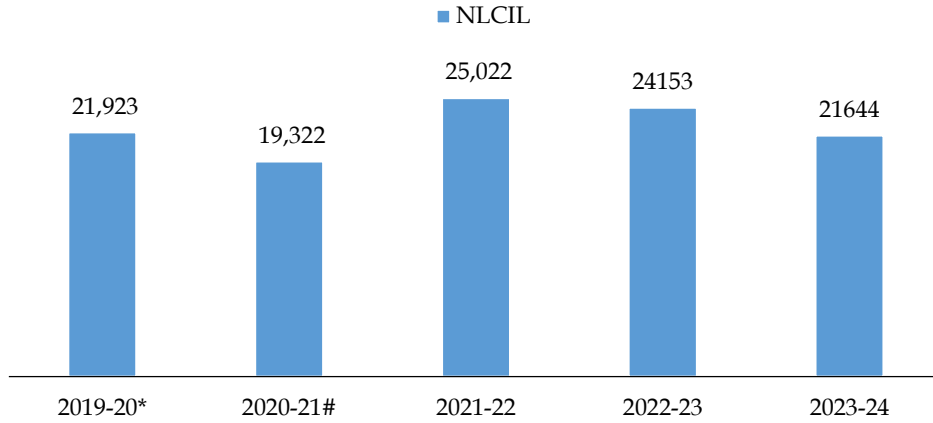


Segment Results (Rs in Crore)

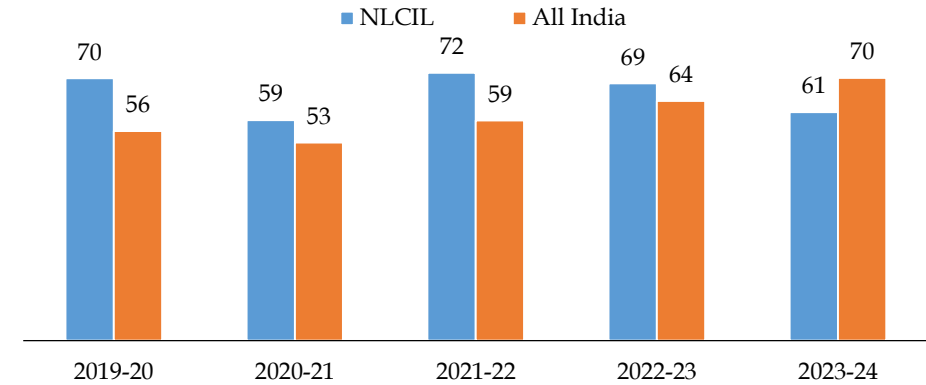


*Restated financials as at 01.04.2020 and FY 2020-21 # Capacity utilisation for Lignite mines ** includes coal production of 10.13 LT in FY:2020-21, 63.58 LT in FY:2021-22, 100.26 LT in FY22-23 & 126.41 LT in 2023-24
 Note : Source from NLCIL Financial Results & Annual Reports and figures representing NLCIL Standalone financial statements

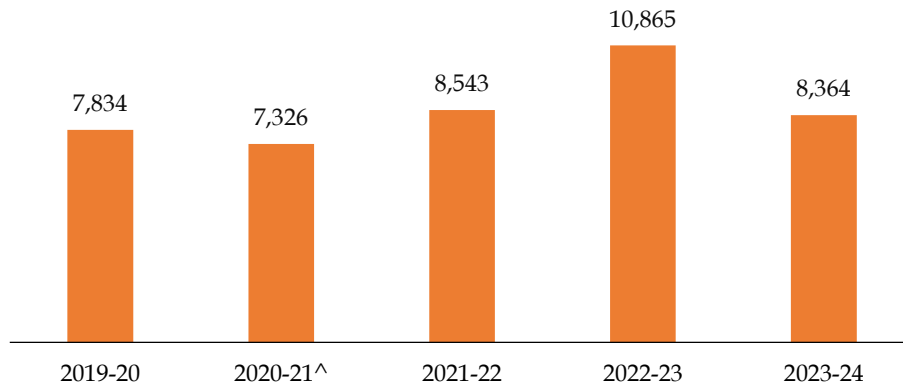
Power Generation (MU)



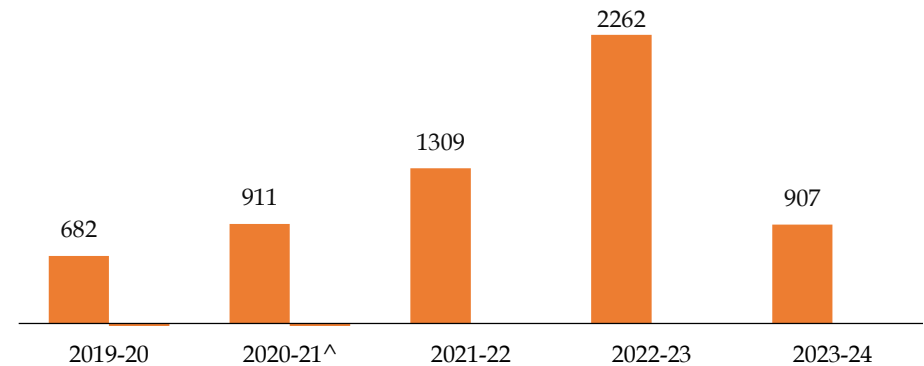
PLF (%) Comparison - Thermal



Revenue from Operations (Rs in Crore)



Segment Results (Rs in Crore)



* Includes infirm power of NNTPS Unit-I and 709 MW Solar

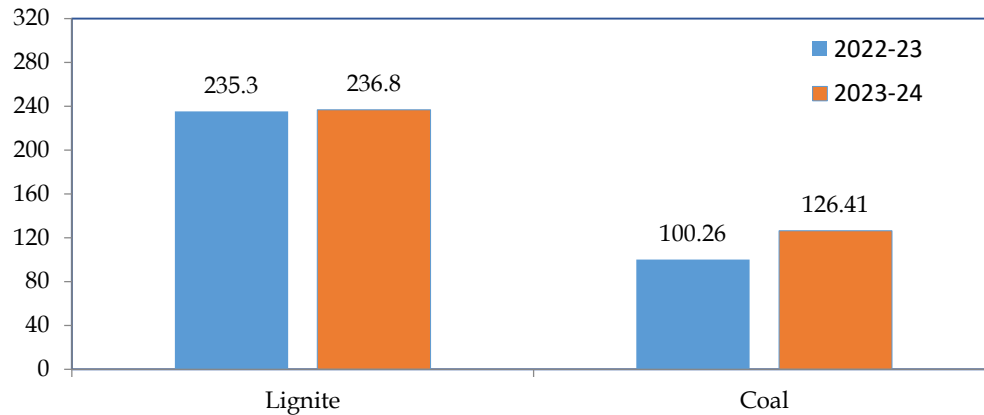
#Includes infirm power of NNTPS Unit II

Source: Standalone Financial Results FY 2023-24

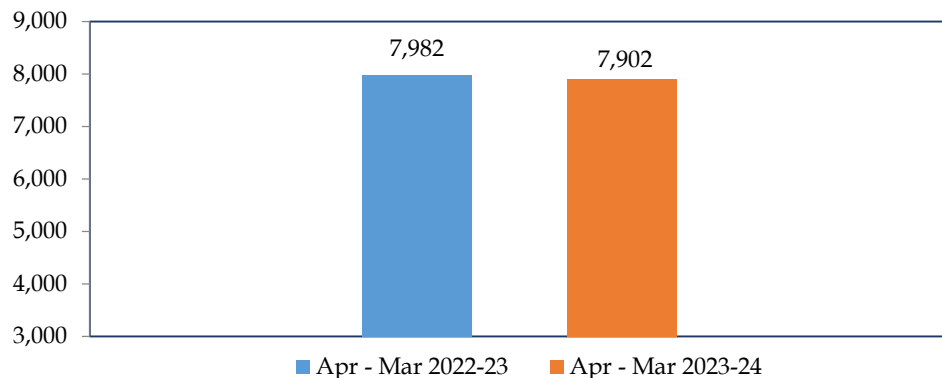
^ Restated FY:2020-21

Mining

Lignite and Coal Production (LT)



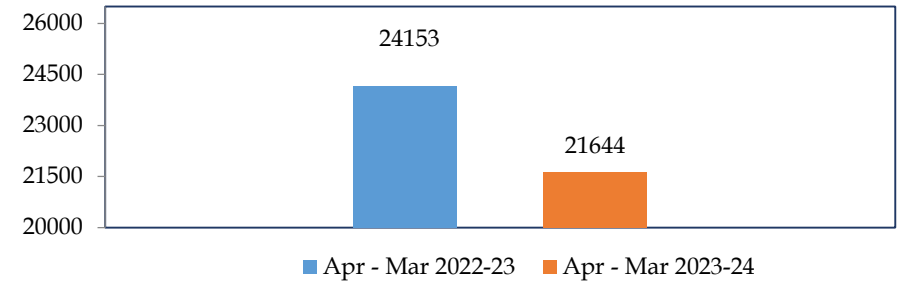
Revenue (Rs in Crore)



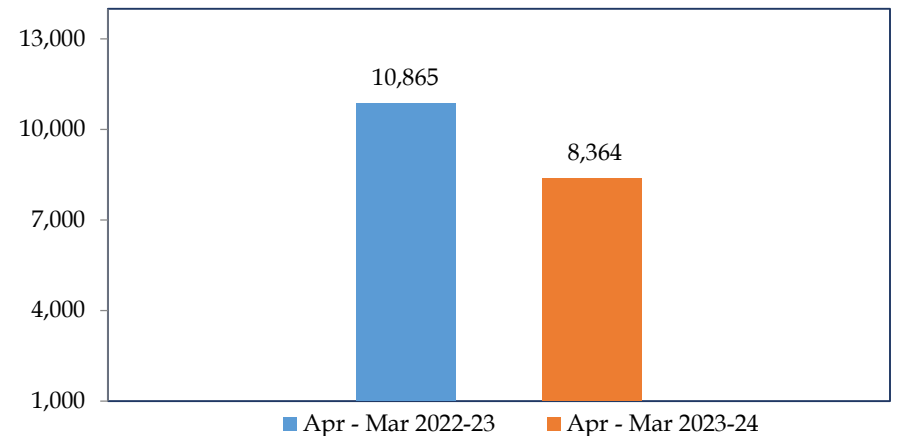
Source: Quarterly financial results

Power

Power Generation (MU)

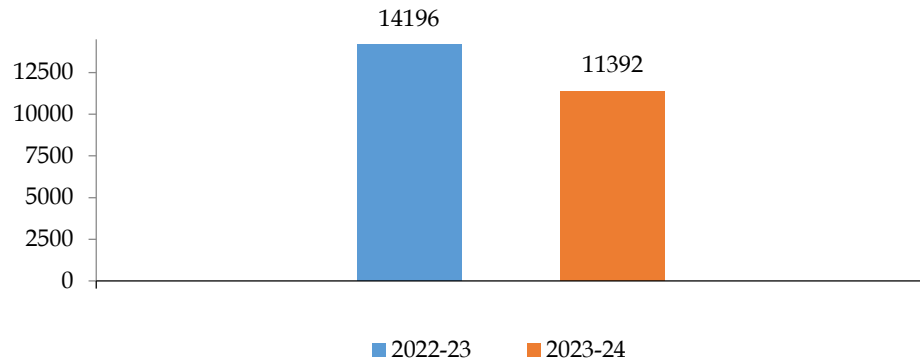


Revenue (Rs in Crore)

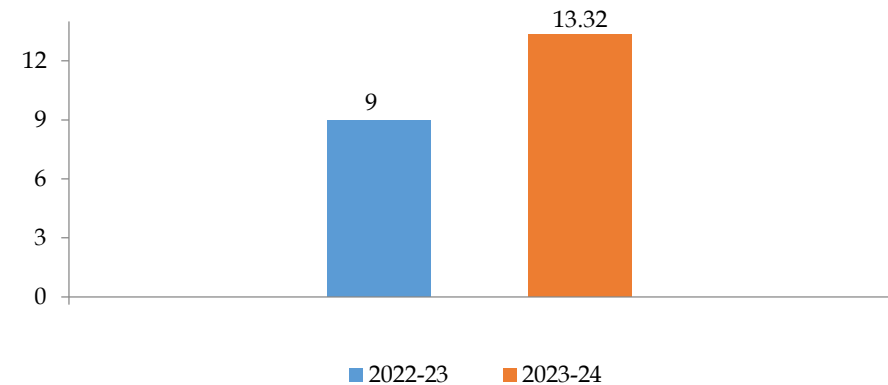


Standalone Performance - (2022-23 Vs 2023-24)

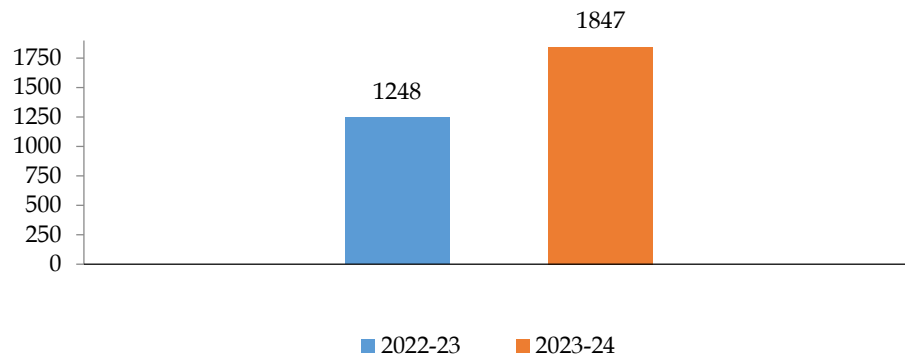
Total Income (Rs in Crore)



Earning Per Share (Rs.)- EPS



Profit After Tax (Rs in Crore)



Income Statement (Rs in Crore)

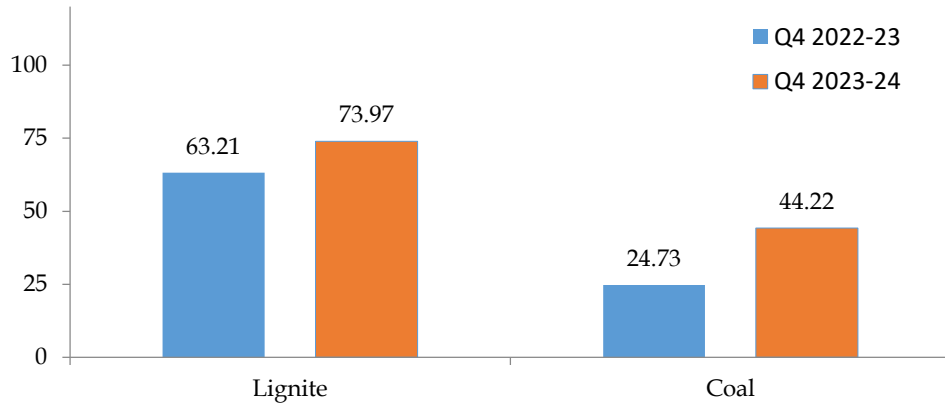
Particulars	FY 21-22	FY 22-23	FY 23-24
Total Income	10,662	14,196	11,392
EBITDA *	4,529	3,912	4873
EBITDA Margin (%)	42.47%	27.56%	42.77%
PAT	1,237	1,248	1,847
PAT Margin (%)	11.60%	8.79%	16.21%

Source: Quarterly financial results

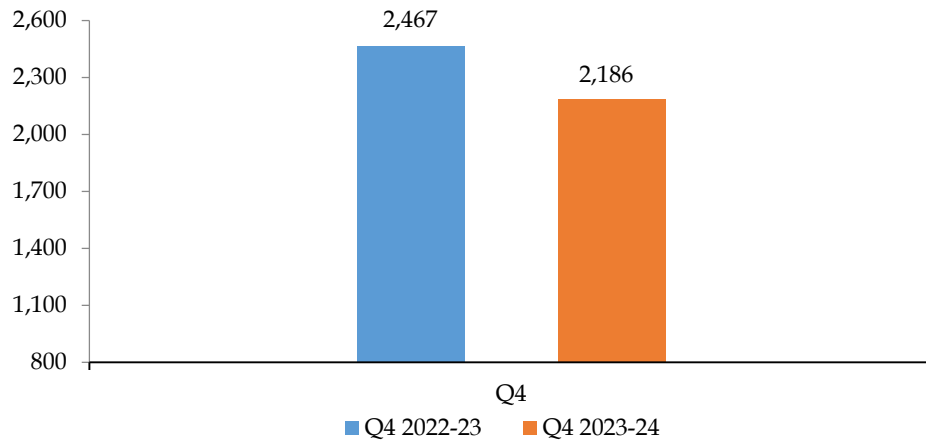
* EBITDA computed considering Net Movement in Regulatory Expenses/Income and without considering Exceptional Item.

Mining

Lignite and Coal Production (LT)



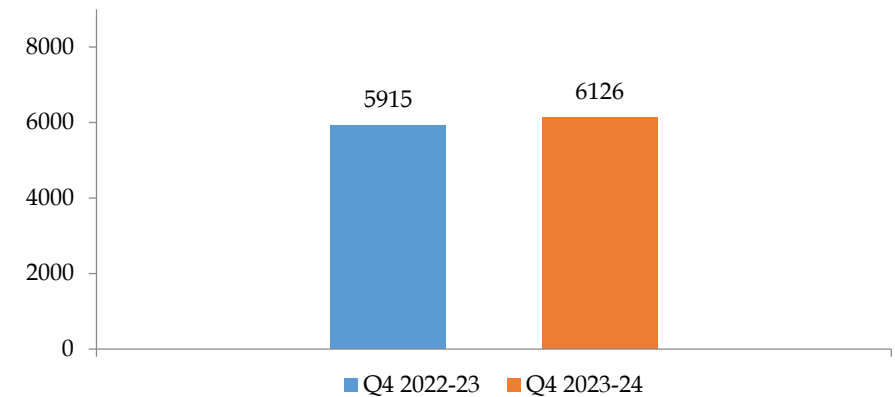
Revenue (Rs in Crore)



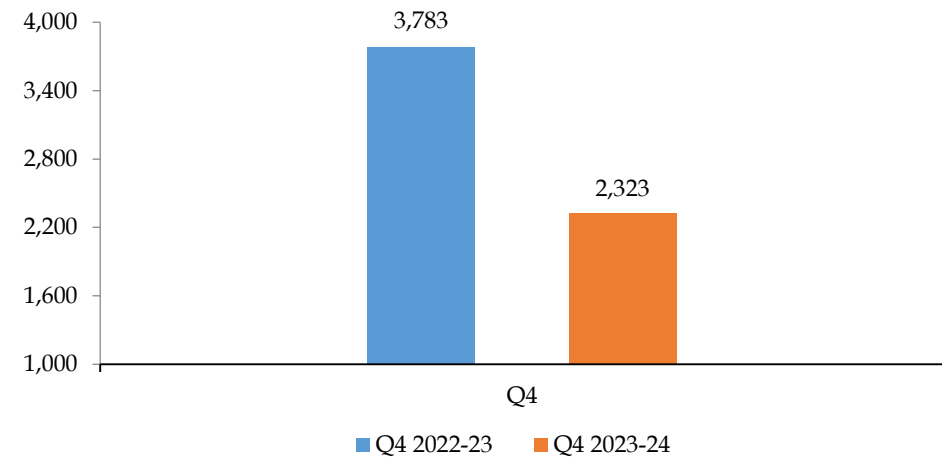
Source: Quarterly financial results

Power

Power Generation (MU)



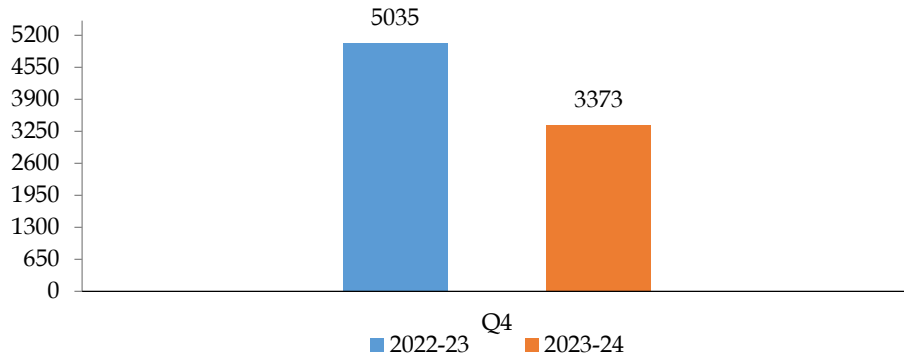
Revenue (Rs in Crore)



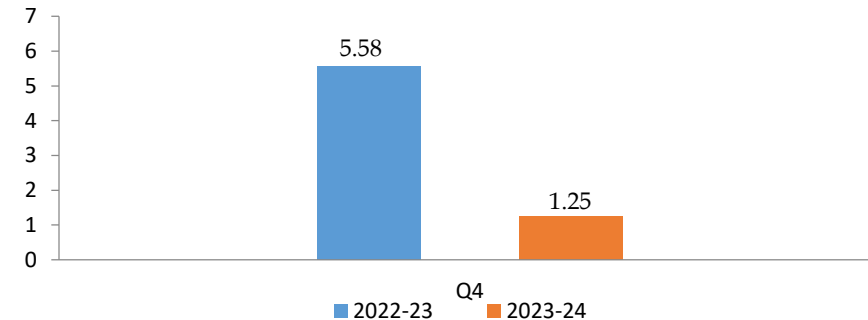
Quarter 4

Standalone Performance - (2022-23 Vs. 2023-24)

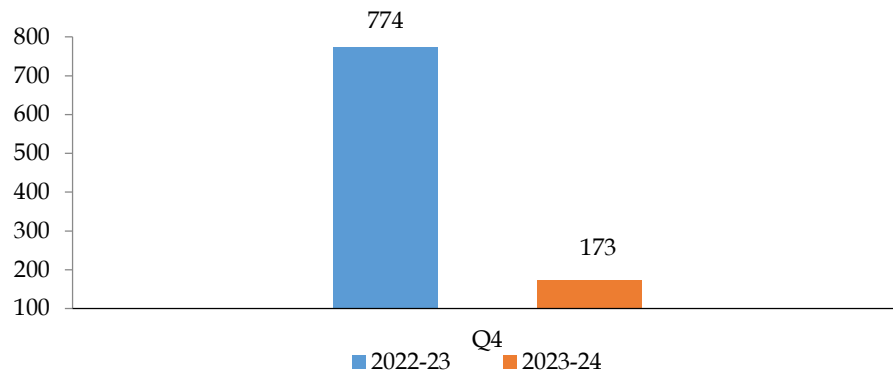
Total Income (Rs in Crore)



Earning Per Share (Rs.)- EPS



Profit After Tax (Rs in Crore)



Quarterly Income Statement (Rs in Crore)

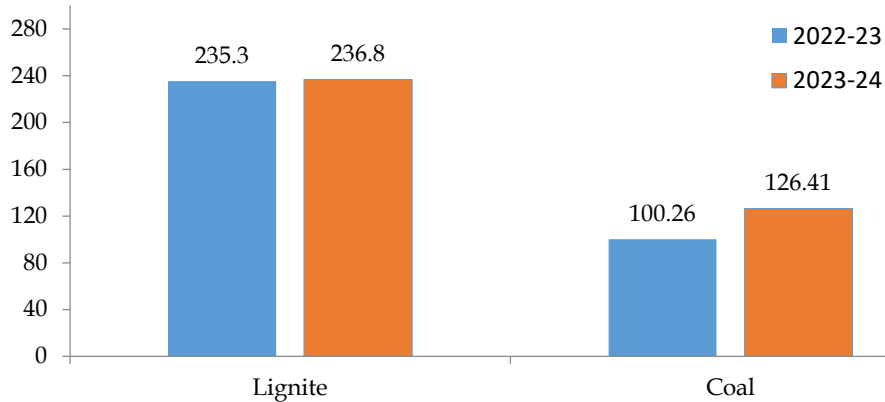
Particulars	June 23	Sep 23	Dec 23	Mar 24
Total Income	2,689.65	2,744.18	2,584.78	3,373.13
EBITDA *	1,028.47	2,249.84	858.74	735.49
EBITDA Margin (%)	38.24%	81.99%	33.22%	21.80%
PAT	331.02	1,121.41	220.97	173.18
PAT Margin (%)	12.31%	40.87%	8.55%	5.13%

Source: Quarterly financial results

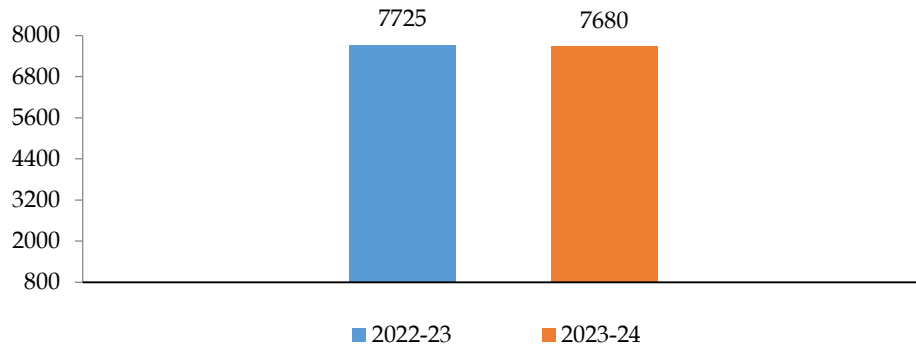
* EBITDA computed considering Net Movement in Regulatory Expenses/Income and without considering Exceptional Item.

Mining

Lignite and Coal Production (LT)

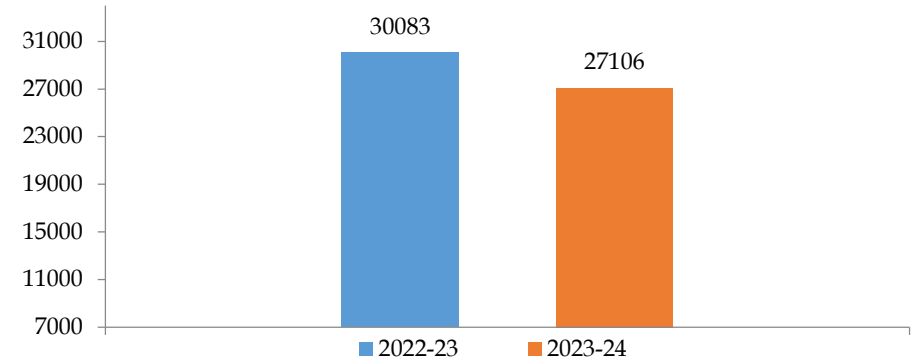


Revenue (Rs in Crore)

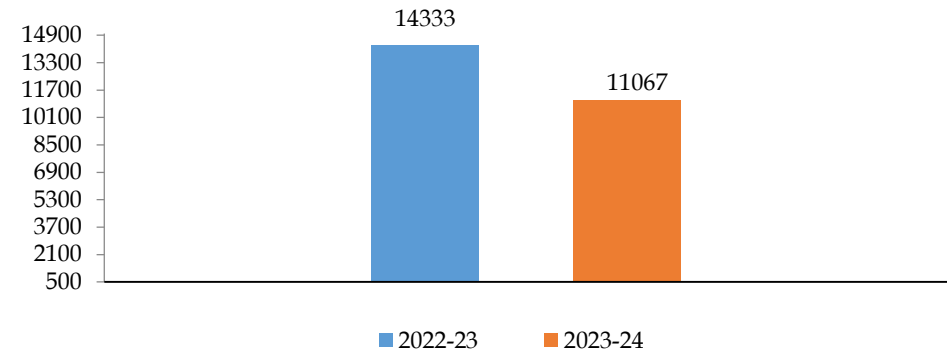


Power

Power Generation (MU)



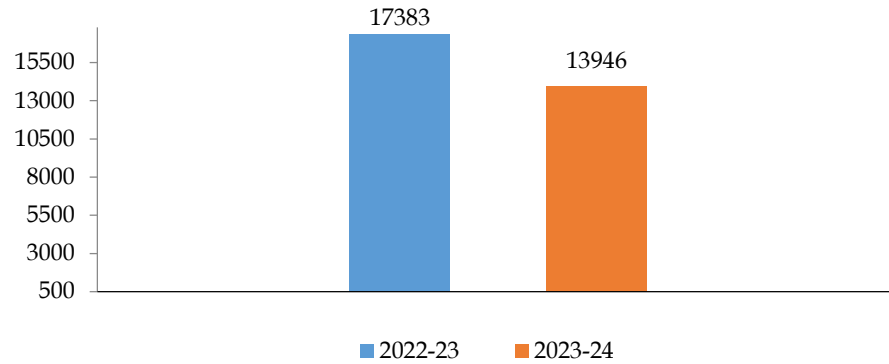
Revenue (Rs in Crore)



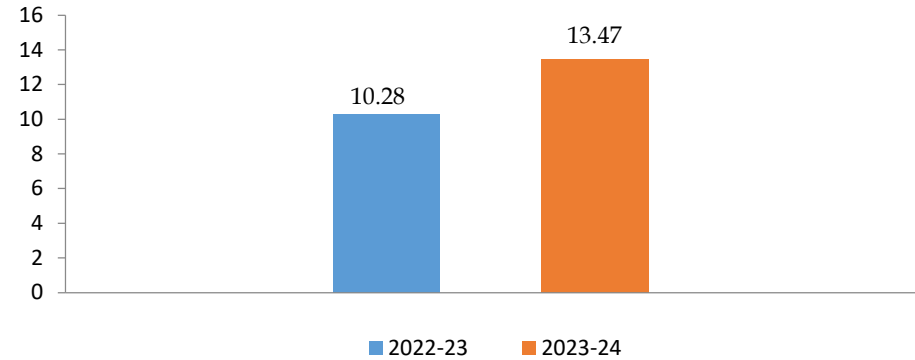
Source: Quarterly financial results

Consolidated Performance - (2022-23 Vs 2023-24)

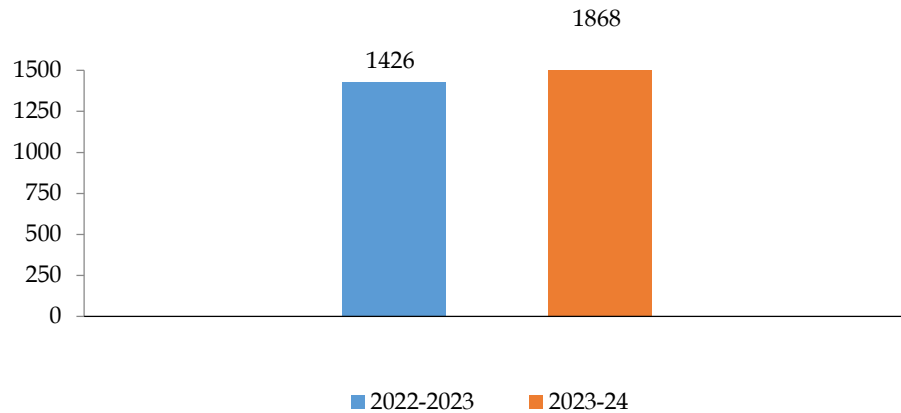
Total Income (Rs in Crore)



Earning Per Share (Rs.)- EPS



Profit After Tax (Rs in Crore)



Income Statement (Rs in Crore)

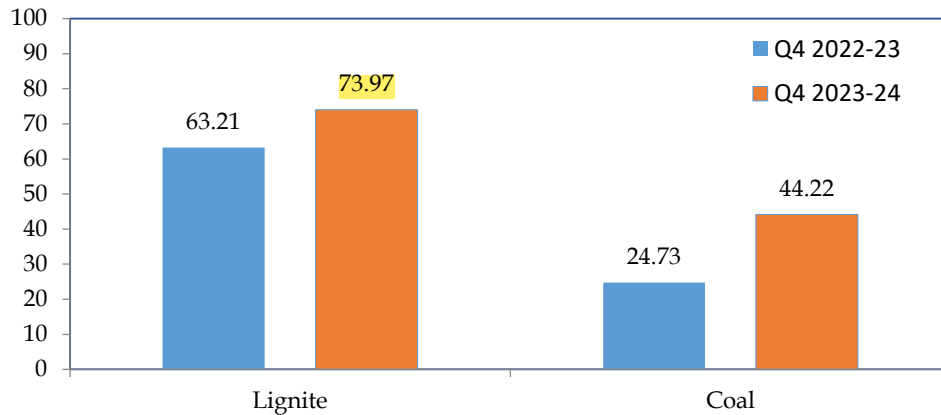
Particulars	FY21-22	FY 22-23	FY 23-24
Total Income	12,546	17,383	13946
EBITDA *	5,106	4,881	5556
EBITDA Margin (%)	40.70%	28.08%	39.84%
PAT	1,116	1,426	1868
PAT Margin (%)	8.89%	8.20%	13.39%

Source: Quarterly financial results

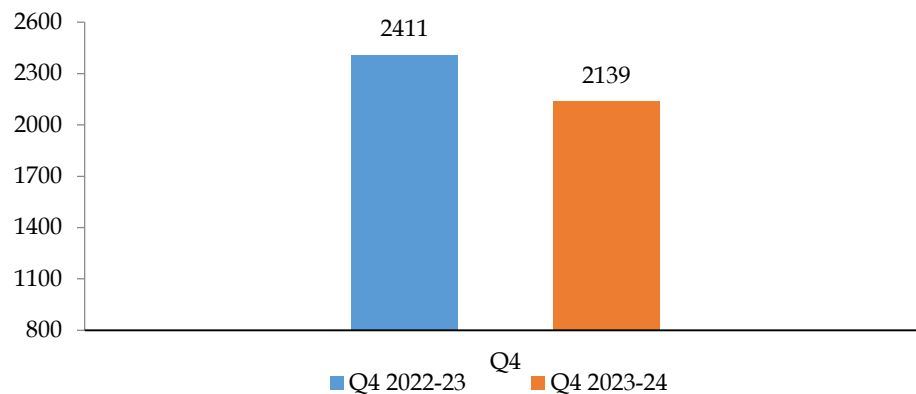
* EBITDA computed considering Net Movement in Regulatory Expenses/Income and without considering Exceptional Item.

Mining

Lignite and Coal Production (LT)*

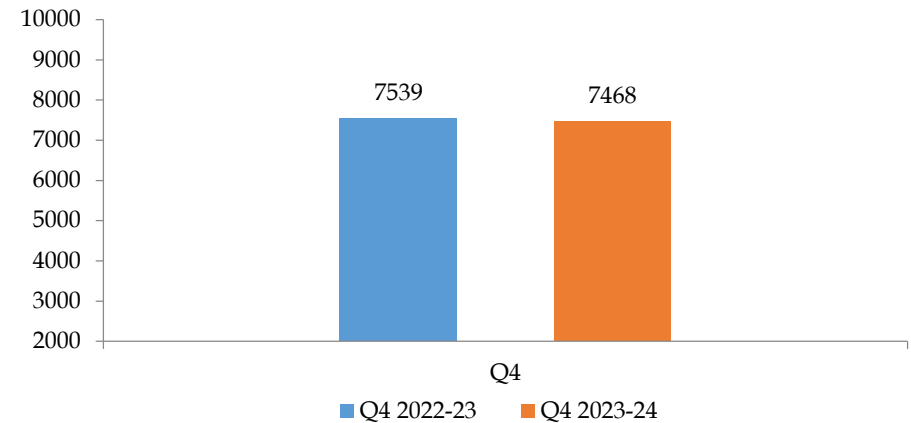


Revenue (Rs in Crore)

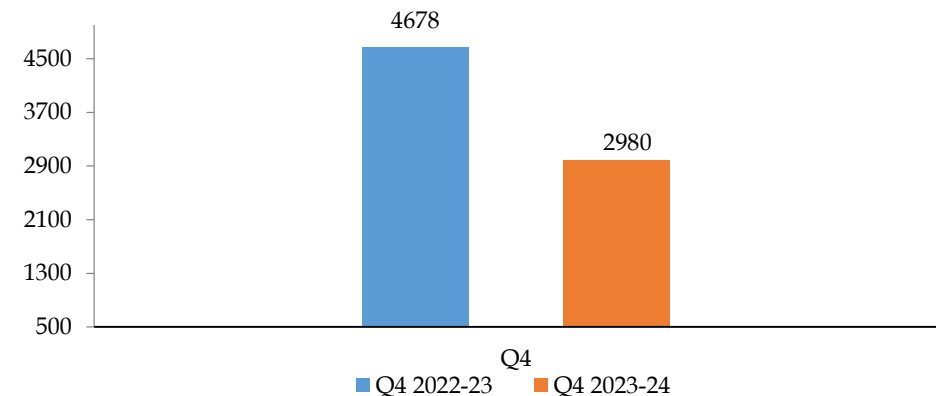


Power

Power Generation (MU)



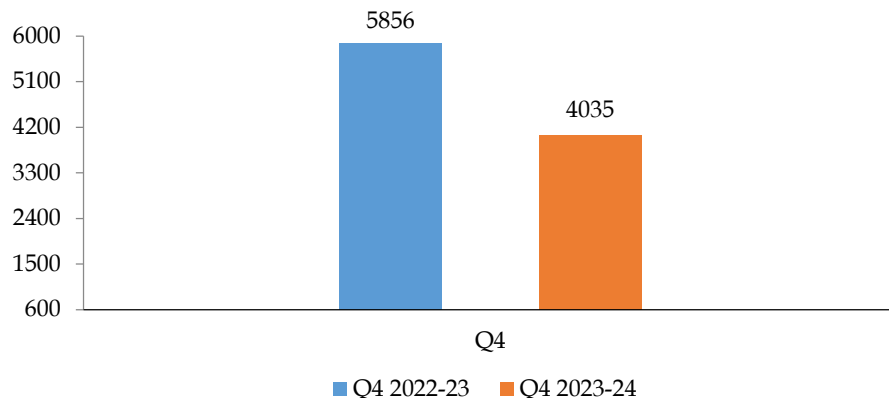
Revenue (Rs in Crore)



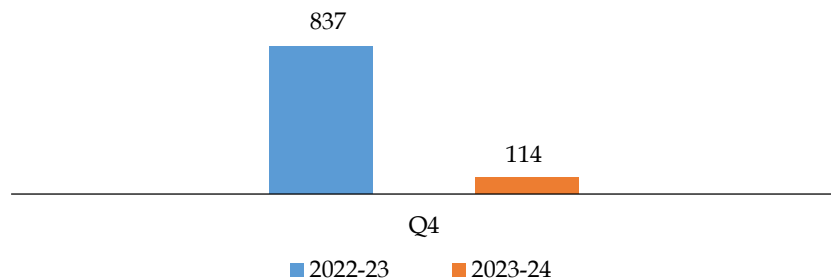
Source: Quarterly financial results

Quarter 4 Consolidated Performance - (2022-23 Vs 2023-24)

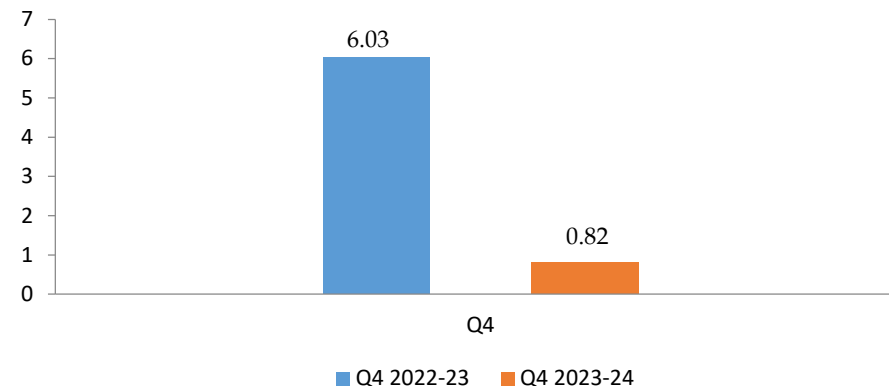
Total Income (Rs in Crore)



Profit After Tax (Rs in Crore)



Earning Per Share (Rs.)- EPS

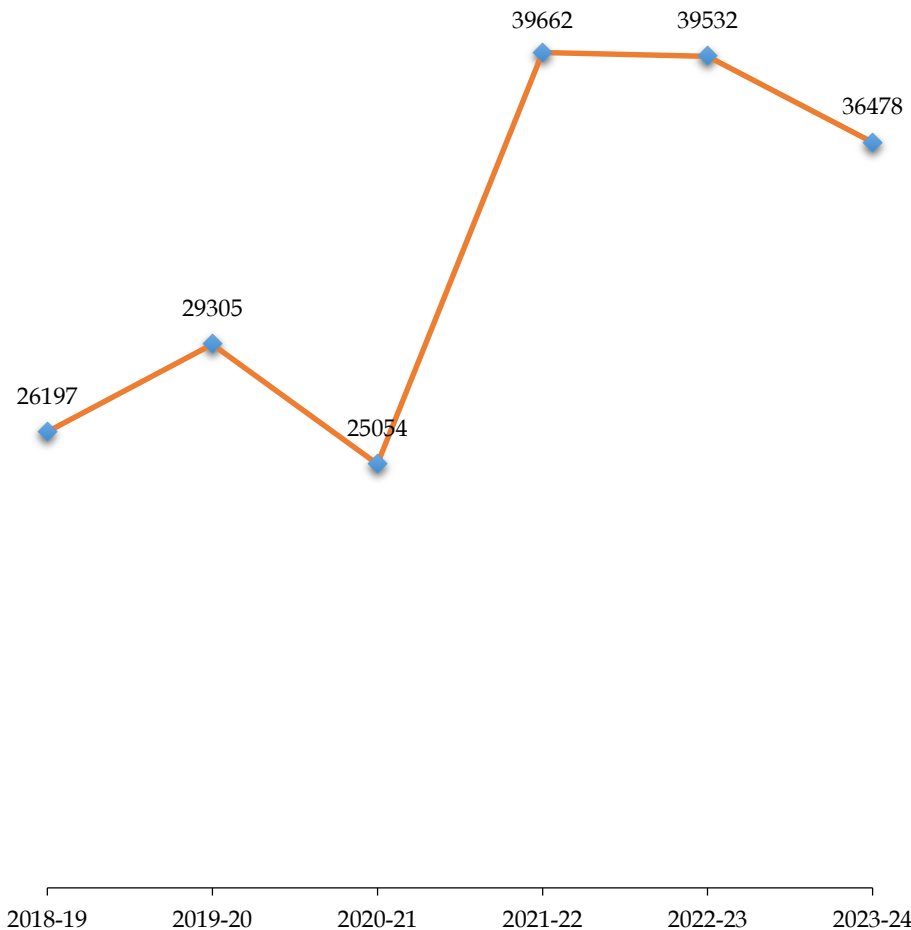


Quarterly Income Statement (Rs in Crore)

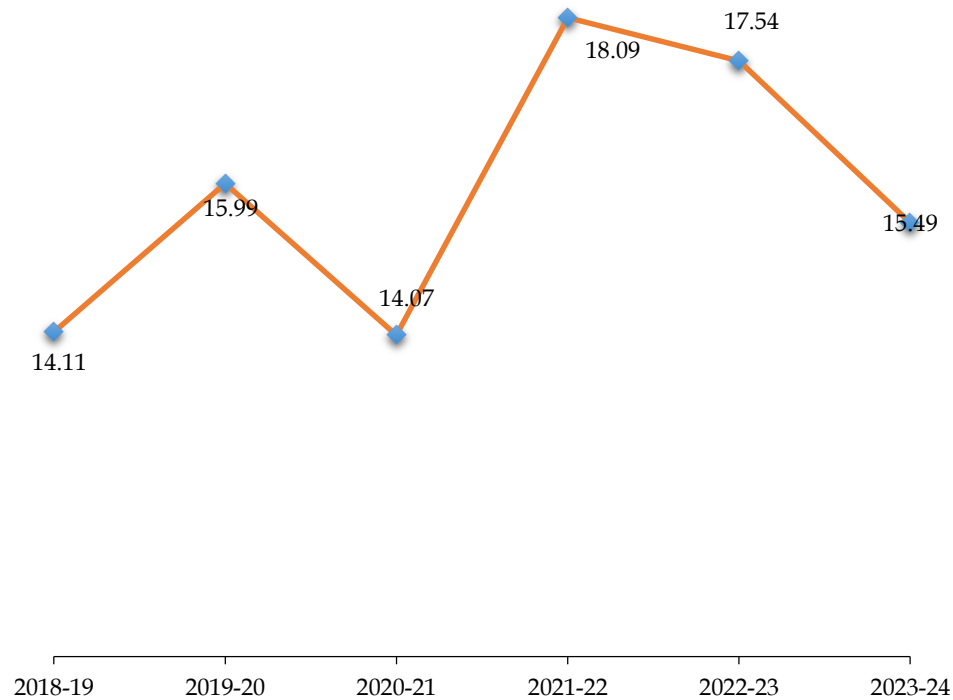
Particulars	June 23	Sep 23	Dec 23	Mar 24
Total Income	3428.48	3,234.03	3249.39	4035
EBITDA *	1305.80	2,369.55	1053.52	827
EBITDA Margin (%)	38.09%	73.27%	32.42%	20.50%
PAT	413.57	1,085.93	254.10	114
PAT Margin (%)	12.06%	33.58%	7.82%	2.82%

Source: Quarterly financial results *EBITDA computed considering Net Movement in Regulatory Expenses/Income and without considering Exceptional Item.

Output per Man Shift - Power (KWhr)*



Output per Man Shift - Lignite (in Tonne)*

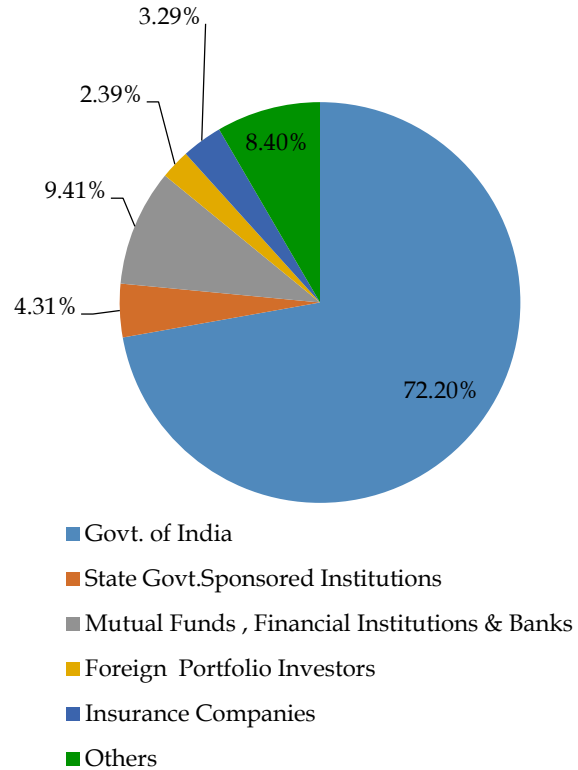


* Source from NLCIL Financial Results & Annual Reports and figures representing NLCIL Standalone



Market Opportunity

Shareholding Pattern*



*Shareholding Pattern as on **31.03.2024**

#Market Cap as on 02.05.2024 (Closing Price of NSE @ Rs. 242.40)

No. of Shareholders

(A) Promoter & Promoter Group

Govt. of India	1
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(B) Public

State Govt. – Sponsored Institutions	5
--------------------------------------	---

Mutual Funds, Financial Institutions, Banks	22
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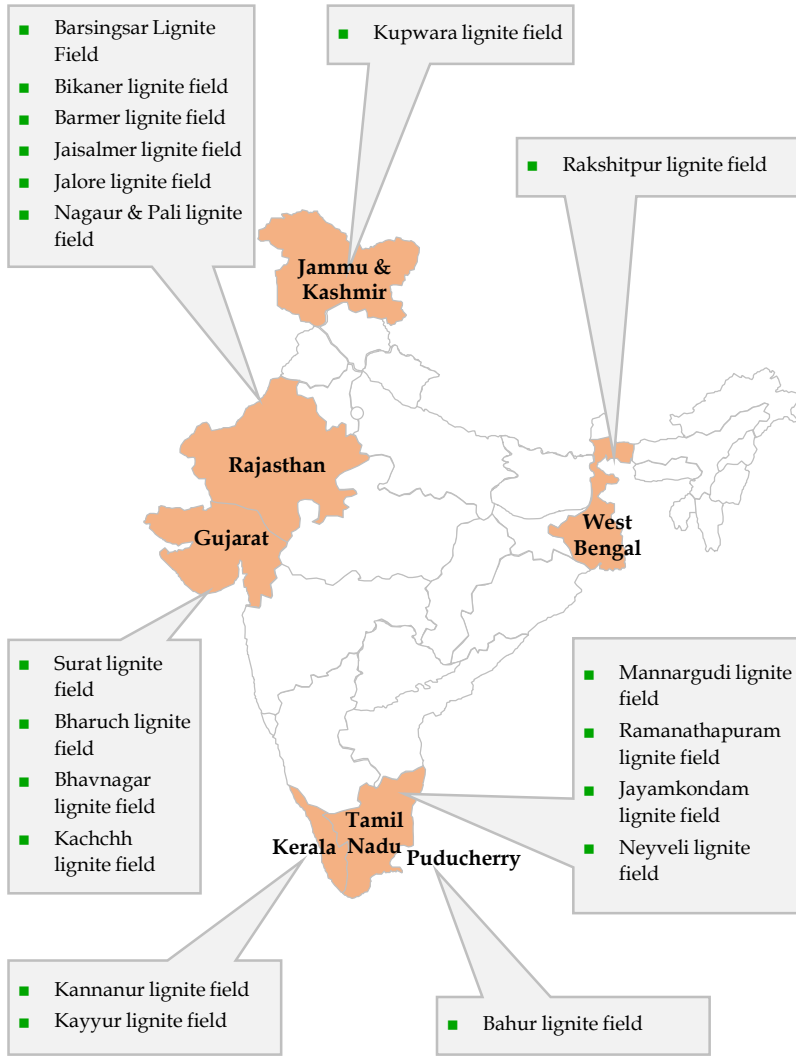
Foreign Portfolio Investors	101
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Insurance	9
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Others	2,58,360
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Total	2,58,498
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Market Cap – Rs. 33,612.07 Crore#



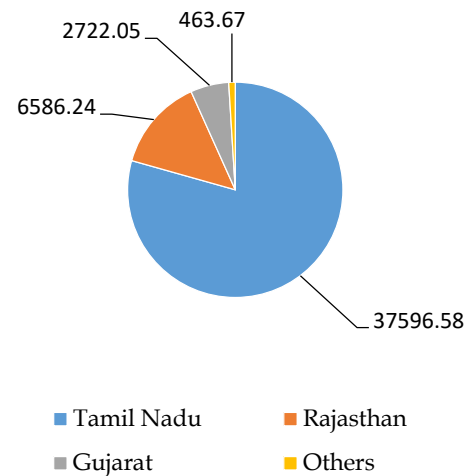
Map not scale

*Source : Indian Coal and Lignite Resources - 2022 by GSI as on 01.04..2023.

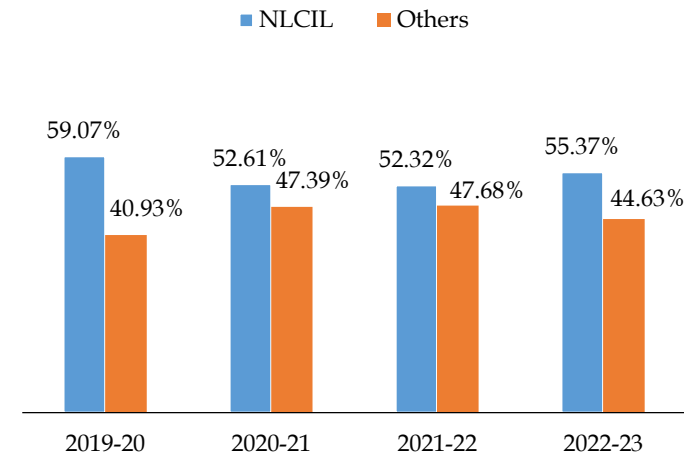
State wise Geological resources in MT as on 01.04.2023 *

State	Measured	Indicated	Inferred	Grand Total
Puducherry	0.00	405.61	11.00	416.61
Tamil Nadu	5023.09	21885.01	10688.48	37596.58
Rajasthan	1203.85	3108.55	2273.84	6586.24
Gujarat	1278.65	283.70	1159.70	2722.05
Jammu & Kashmir	0.00	20.25	7.30	27.55
Kerala	0.00	0.00	9.65	9.65
West Bengal	0.00	1.13	2.80	3.93
Odisha	5.93	0.00	0.00	5.93
Total	7511.52	25704.25	14152.77	47368.54

Lignite Reserves (MT)*

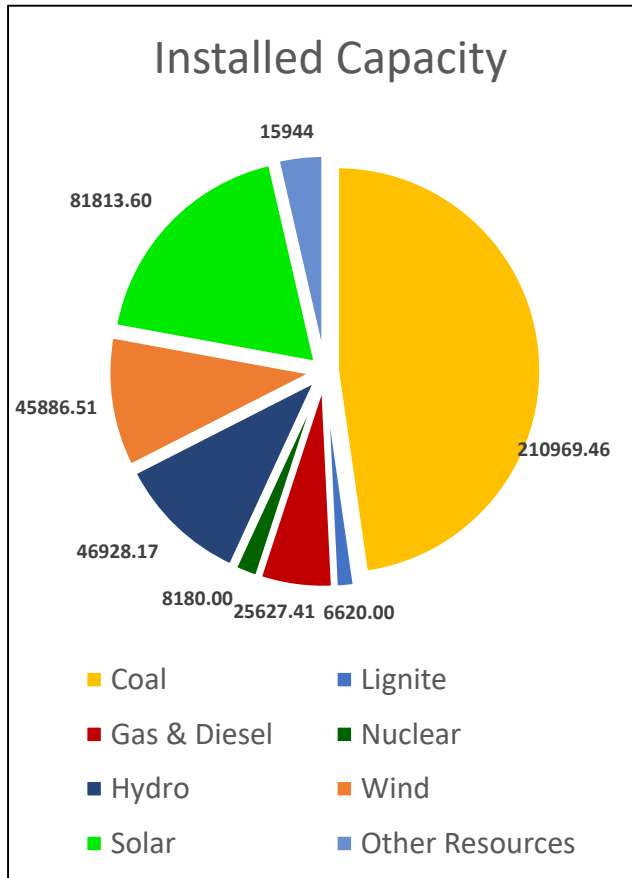


Market Share of Lignite Production

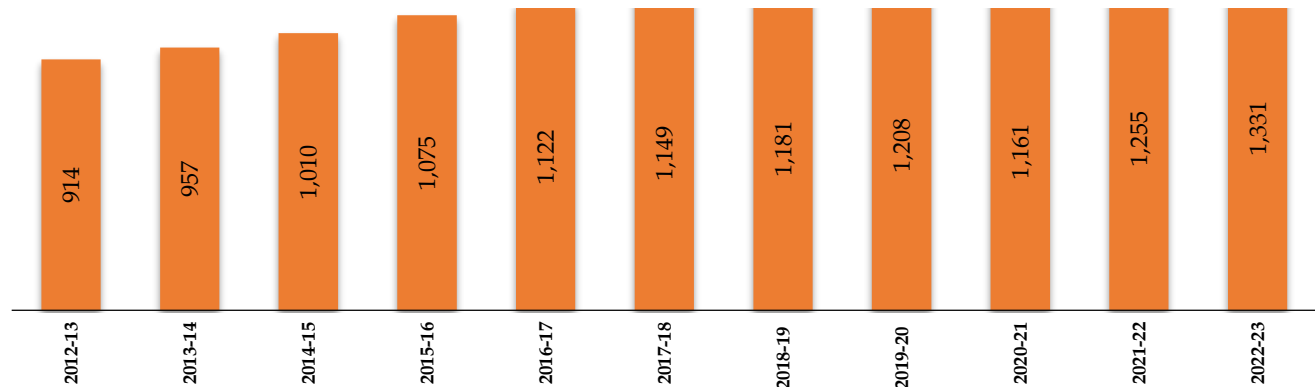


Installed Capacity as on 31.03.2024

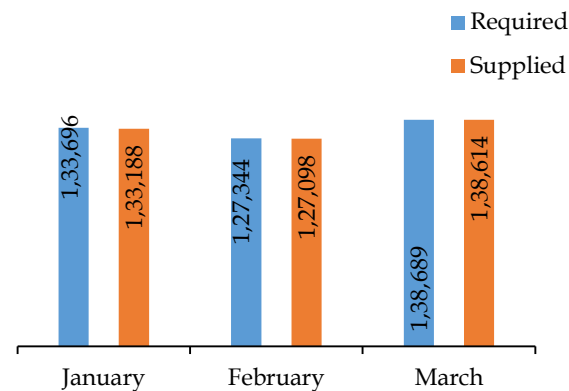
441969.55 MW



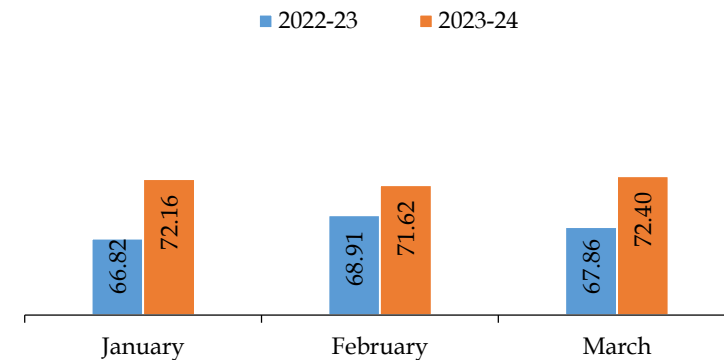
Per Capita Consumption (kWhr)



All India Energy Requirement & Supply (MU)



All India Plant Load Factor of Thermal Plants (Excluding Gas Based Plants) %



Source : Central Electricity Authority - Executive Summary on Power Sector - Mar 2024 Report



Growth Plans

Sl. No	Project	Existing Capacity	Addition Proposed	Total
1	Lignite (MTPA)	30.10	10.25	40.35#
2	Coal (MTPA)	20.00	42.00	62.00
	Total Mining (MTPA)	50.10	52.25	102.35
3	Power - Lignite Based (MW)	3,640	1,445	5,085
4	Power - Coal Based (MW)	1,000	4,380	5,380
5	Power - Renewable (MW)	1,431	6628.40	8059.40
	Total Power (MW)	6,071	12,453.40	18,524.40
#Mine-I: 3.50 MTPA capacity reduction planned in 2028				

Growth Plan over 3 Years

Sl. No	Project	Existing Capacity	Addition Proposed	Total
1	Lignite (MTPA)	30.10*	-	30.10
2	Coal (MTPA)^	20.00^	9.00	29.00
	Total Mining (MTPA)	50.10	9.00	59.10
3	Power - Lignite Based (MW)	3,640	-	3,640
4	Power - Coal Based (MW)	1,000	1,980	2,980
5	Power - Renewable (MW)	1,431	4028.40	5459.40
	Total Power (MW)	6,071	6008.40	12,079.40

*Existing Capacity as on 31.03.2024 includes Mine IA Exp which is commissioned on 01.04.2022 and achievement of full capacity of 4 MTPA expected by 2028.

^Coal Production started on 26th April 2020. Achievement of Full Capacity expected by Jan 2027.

Source :NLCIL Corporate Plan 2030.

On going / Upcoming Mining & Power Projects

On Going Mining Projects

Project	MT	Estimated Cost (₹ Cr)	Expected COD
South Pachwara Coal Block *	9.00	2,243	Sep 28
Total	9.00	2,243	

* Approval received from PIB on 04.10.2023, expected earth-cutting by Dec'24

On Going Thermal Power Projects

Project	MW	Approved cost (₹ Cr)	Expected COD
NUPPL - UP	1,980	19,406	Unit I - June 24 Unit II - Nov 24 Unit III - Mar 25
Odisha Pit Head TPS (Phase I)	2400 (3*800)	27,213	U-1: 52 months U-2: 58 months U-3: 64 months from date of notice to proceed (Nov -24)
Total	4,380	46,619	

On Going Renewable Power Projects

Project	MW	Estimated cost (₹ Cr)	Expected COD
Solar 500 MW IREDA	500	2,969	300 MW: Sep 24 200 MW: Jul 25
150 MW Wind-Solar Hybrid	150	913	100 MW Solar: Jun 25 50 MW Wind: Apr 25
Solar 50 MW (In Neyveli at Mined out land area)	50	295	LOA issued in Feb - 24 (Jun 25)
Solar 600 MW (Gujarat)	600	3,336	Bids received are under evaluation (Jun 25)
Solar 810 MW (Rajasthan)	810	4,788	15 Month from date of PPA
Total	2,110	12,301	

Source : NLCIL Corporate Plan 2030.

Upcoming Projects

Renewable Power Projects	MW	Estimated cost (₹ Cr)	Expected COD
Wind Project unit - 2	100	525	Project is under Planning Stage
250 MW Solar	250	1,213	
500 MW Assam JV	500	2,500	
190 MW RE Power	190	950	
500 MW RE Assam JV	500	2,500	
500 MW Solar Rajasthan JV	500	2,500	
500 MW Solar Rajasthan JV	450	2,250	
Total	2,490	12,438	

Thermal Power Projects	MW	Estimated cost (₹ Cr)	Expected COD
Odisha Pit Head TPS (Phase II)	800 (1*800)	6,474	Project is under Planning Stage
TPS II 2 nd Exp	1320	11,189	EPC Tender floated
Total	2,120	17,663	

Mining Projects	MT	Estimated Cost (₹ Cr)	Expected COD
Mine III Neyveli	11.50	3,756	Project is under Planning Stage
Commercial Coal Block#	12.00	4,500	
North Dhadu	3.00	1,396	Sep 29
Total	26.50	9,652	

Cost envisaged is tentative which is based on recently received commercial coal block (3 MTPA North Dhadu, Jharkhand)

Green Hydrogen

- NLCIL is in the process of setting-up of a Pilot scale Project to generate Hydrogen with in-put of 4 MW Solar to the Electrolyser.
- M/s. EIL was engaged as Project Management Consultant and work order issued on 25.11.2023.
- Further activities for floating tender are under process.

Lignite to Methanol

- Proposed capacity of Lignite gasification – based Methanol Project – 0.402 MTPA
- NLCIL engaged M/s EIL as Project Management Consultant for implementation
- Tender floated for Lignite to Gasification & Price cover opened on 06.01.2024. Due to high quoted price, tender was cancelled .
- Tender floated for Methanol block and bid opening scheduled on 31.05.2024.

Lignite to Diesel

- Proposal has been received from the firm for pilot Plant of 290t/day of Lignite (Diesel - 40 t/day and Naphtha- 9.2 t/day)
- The CAPEX for the proposed plant - Rs.208.92 Crore
- Draft DFR received on 19.04.2024 & under review

Overburden to Sand

- It is found that around 34% to 94% of sand can be recovered from overburden.
- The Sand Grade found is suitable for construction applications.
- At Mine IA : Plant commissioned on 31.03.2024. Obtaining Statutory approval activities under progress.
- At Mine I : Tendering floated on 01.12.2023 & price bid opened on 22.03.2024. LoA will be issued shortly.

810MW Project, RRVUNL

- On 10th Aug 2023, Participated in the e-Reverse auction and won 810 MW at Rs.2.64/ Unit of tariff.
- LOI issued by RRVUNL on 03.10.2023.
- Consent letter regarding development charges, 1st year O&M and one time land cost was submitted to RRVUNL letter on 30.11.2024..
- For the appointment of Owner's Engineer Consultant to NLCIL for Developing 810 MW SPP, work under progress.
- LOA issued to M/s TCE for owners engineering consultancy on 13.03.2024.

GUVNL Solar park Khavda, Gujarat (300 MW + 300 MW)

- GUVNL floated tender for installation of 800 MW Solar power project with Greenshoe option at GSECL Solar Park, Khavda, Gujarat.
- NLCIL won 300 MW on 01.07.2023. Further, NLCIL accepted offer for 300 MW under Greenshoe option.
- LOA received from GUVNL on 03.08.2023.
- BOS package, Reverse auction held on 29.03.24 & price justification under progress.
- Module procurement 787 Wp – Tender floated on 27.01.2024 . Bid opened on 22.03.2024 and under evaluation.
- For procurement of other materials (IDT, Cables, Switchgear & Central Inverters), activities are under progress.

50 MW Solar in Mined out area – Mine-II

- Module procurement LoA issued to M/s Bluebird solar pvt ltd, M/s Rayzon Solar Pvt ltd, M/s Sova Solar ltd. on 26.02.2024,
- For BoS, LOA issued to M/s Bondada Engg ltd. On 26.02.2024,
- Topography work was completed.
- Geotechnical investigation work will commence shortly.

Pumped Storage System

- MoU signed with WAPCOS on 27.05.2023, to develop Hydro-Power Projects, Pumped Storage and Reservoirs. Kick-off meeting happened on 15.06.2023.
- Order placed with WAPCOS on 25.10.2023 for preparation of FR.
- Soil investigation study under progress.

Commercial Coal mine - North Dhadu (Western Part) (3 MTPA)

- Commercial Coal Block Auction held by MoC on 01.08.2023 & NLCIL won North Dhadu (Western Part) Coal Mine of capacity 3 MTPA, Latehar district of Jharkhand.
- Coal Mine Development and Production Agreement (CMDPA) for this mine was executed between Ministry of Coal and NLCIL on 29.09.2023.
- Vesting Order issued on 14.12.2023.
- Geological Report prepared and submitted on 27.12.2023.
- Mine plan & DPR preparation by CMPDI under progress.
- Obtaining Statutory approvals & CSR activities are under progress.



Corporate Social Responsibility

CSR Initiatives

Details of CSR expenditure (Rs. Cr)

Year	Norm	Actual
2021-22	40.80	41.03*
2022-23	39.65	43.07
2023-24	40.27	47.36

* Includes Rs. 0.23 Cr spent on CER Expenses of Talabira Project

Green belt development

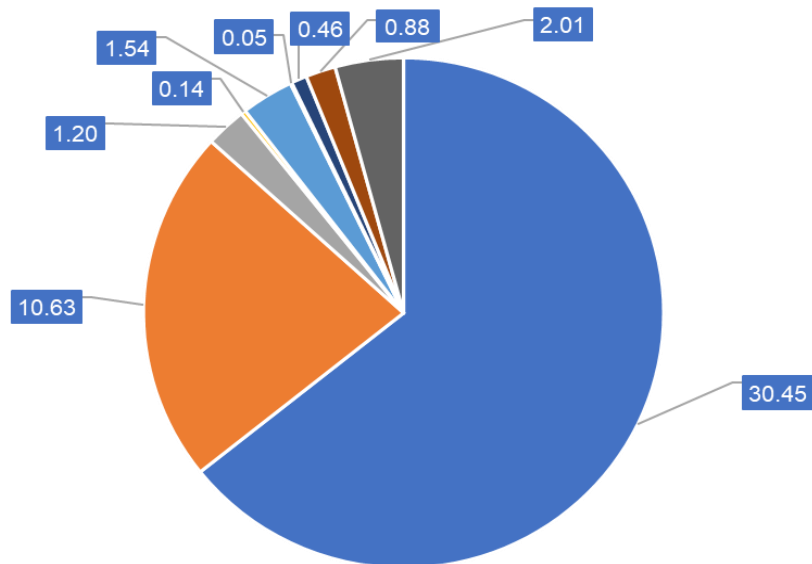


*Neyveli Township Overview
Green Cover with
191 lakh trees.*

*Paddy field on
Reclaimed Mined
land at Neyveli*



Amount spent on CSR Initiatives - Rs. 47.36 Cr.



- Promoting Health Care, Safe Drinking water & Sanitation
- Promoting Education, Special Education & Employment Enhancing Skills
- Promoting gender equality
- Ensuring environmental sustainability
- Protection of national heritage, art and culture
- Measures for the benefit of armed forces veterans
- Promoting Rural Sports
- Rural development projects
- Administrative Overheads



Energy Conservation

- Formed 14 industrial service units for adoption of energy conservation measures
- Installation of energy efficient equipment's
- Energy Audit for Thermal Power Stations
- Minimisation of idle running hours in crushers in TPSs
- Timer Processor units are being installed in outdoor lights
- Adding of capacitor banks through induction motors
- 50.77 MU of energy conserved through energy efficiency measures

Technology Absorption

- Exploring alternate use of lignite is in progress.
- Usage of Bio mass pellets blending with coal and lignite as a fuel in line with MoP directions

R & D Initiatives

- Prevention of Premature Failures and Enhancing Life of Bottom Rollers used in Bucket Wheel Excavators
- Feasibility of Setting up a pilot plant for Lignite to Syngas Integrated with Clean Power Generation by IGCC & Production of Value Added Chemicals
- Extraction of Diesel from Lignite
- Membrane-less, Chemical free, Plug and Play, Hassle Free; Water & Wastewater Treatment
- Smart IoT Controlled Cultivation of Herbal Crop
- Hydroponics Farming in the Backfilled Mines Area of NLCIL
- Development of Eco-Friendly Geo-Polymer Ash Based green bricks using solar heating
- Activated carbon development using lignite – HA sludge
- Establishing pilot plant for Green Hydrogen Production
- Characterization of finding the suitability of lignite/humic acid for semiconductor applications

- Risk in Land acquisition
- Realisation of Dues from DISCOMs
- Surrender of Power by beneficiaries
- Denial of agreed tariff due to delay in commissioning of projects.
- Competition consequent to de – regulation in Indian power sector
- Risk due to stringent Environmental norms
- Stringent Norms prescribed by regulatory authority affecting power tariff.
- Cost and time overrun of projects under execution
- Higher cost of lignite Mining



Thank You