

November 28, 2023 BJ/SH-L2/

BSE Limited Corporate Relationship Department Phiroze Jeejeebhoy Towers Dalal Street Mumbai – 400 001. <u>Scrip Code</u>: **500400** National Stock Exchange of India Limited Exchange Plaza, C-1, Block G Bandra-Kurla Complex Bandra (East) Mumbai – 400 051. <u>Symbol:</u> **TATAPOWER**

Dear Sirs,

Sub: Presentation to Analyst/Institutional Investors

In terms of Regulation 30 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, as amended, we forward herewith a presentation that will be made today at the Analysts/Investors meet at Bhivpuri Hydro plant.

Yours faithfully, For **The Tata Power Company Limited**

(H. M. Mistry) Company Secretary



TATA POWER

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The Tata Power Company Limited (TPCL)

ANALYST MEET 2023

28 NOVEMBER 2023

Powering India Today and Tomorrow

TATA

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TATA

Agenda

04 The Tata Power story

- Indian power sector : Witnessing strong tailwinds
 14 Renewable energy : Our key growth driver
 28 Transmission and distribution : Long growth runway ahead
 - Pumped hydro plants : Our emerging growth lever
- 45 Looking Ahead : Key targets for FY27
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P



India's largest vertically-integrated power company

9,281 MW Clean & Green Energy (Including 3,760MW in pipeline) 8,860 mw

Thermal energy generation (Installed capacity)

5,713 ckm Transmission capacity (Including 1,330Ckm in pipeline)

12.4 Mn Total distribution customers served

2.8 GW

MoU signed for Pumped Hydro Project (PSP) >**₹18,700** cr

Solar EPC order book- Large Scale Utility, Group Captive and Rooftop EPC



Renewables

Transmission and Distribution



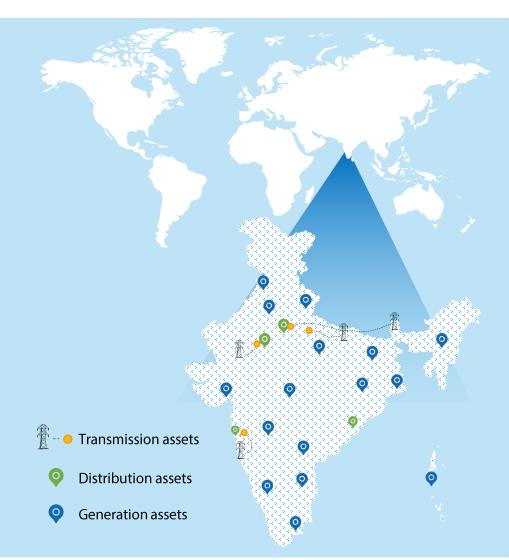
~4.9 GW Manufacturing capacity including 4.3GW each of Cell & Module operational/under construction >11.5 GW

EPC large projects executed and under pipeline

>4,900

Public EV charging points energised across 442 cities and towns

Assets spread across India...



Capacity Mix (Domestic + International)	8,860 мw Thermal	1,007 мw Wind	880 mw Hydro
14,381 mw Total	443 mw Waste Heat Recovery /BFG	3,191 мw Solar	3,760 mw Renewable capacity under construction

Distribution of installed capacity (Domestic & International) (%)



Transmission

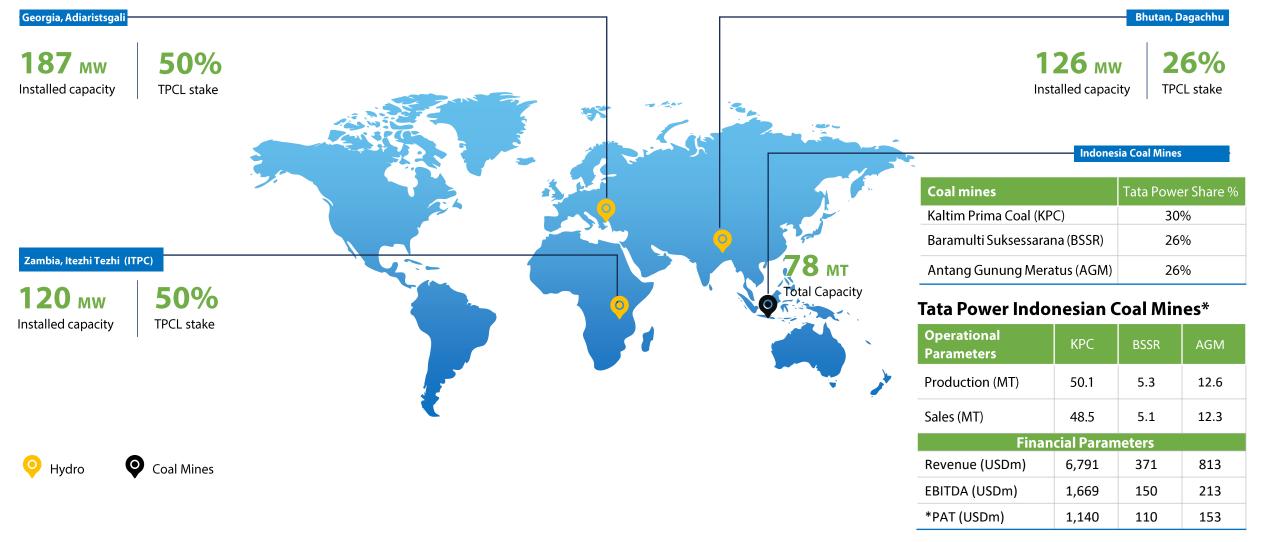
Distribution

Transmission pipeline under construction

L1 (lowest) bidder



... as well as a few Global locations



*FY23 operational and financial numbers on a 100% basis.

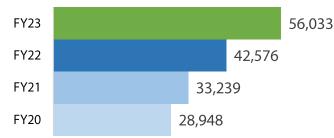


Generating consistent value over the years...

Revenue (₹ in Cr)

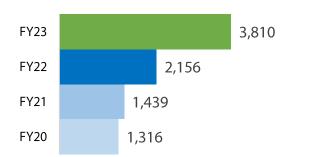
30,446

H1FY24



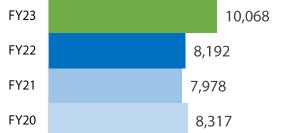
Reported PAT^ (₹ in Cr) **2,158**

H1FY24



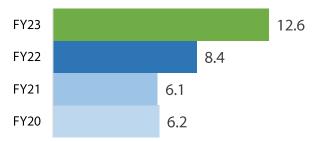
EBITDA (₹ in Cr) 6,092^{*}

H1FY24



ROE (%)

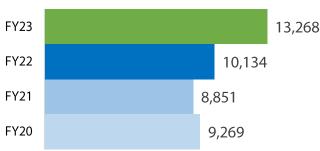




Underlying EBITDA(₹ in Cr)

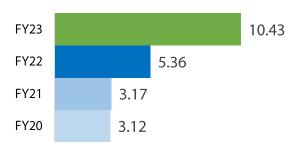
6,694**





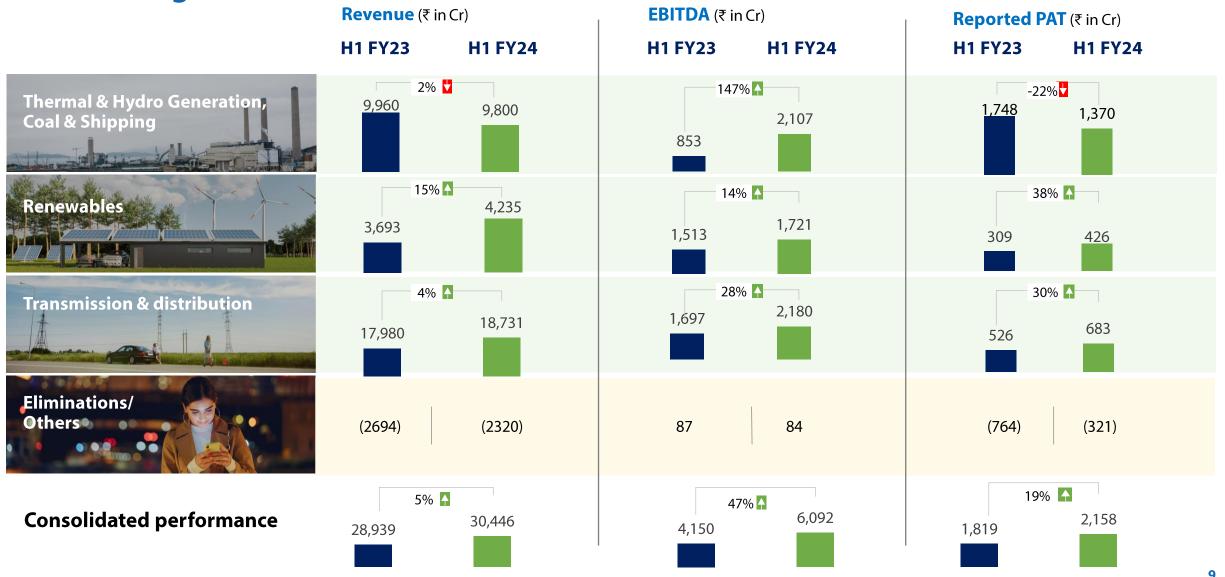
EPS (₹)^^ **5.78**

H1FY24





...with rising contribution from our Core businesses*

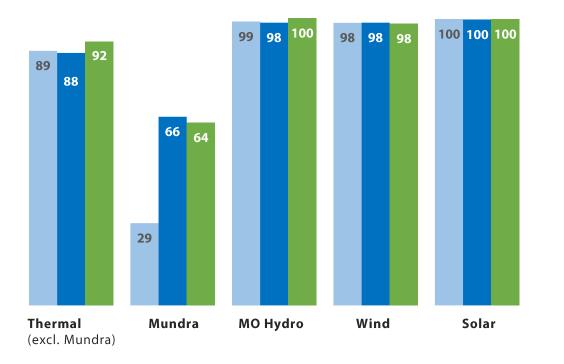


*Coal, Overseas Hydro Assets, Stake in Tata Projects & Nelco considered as Non-core

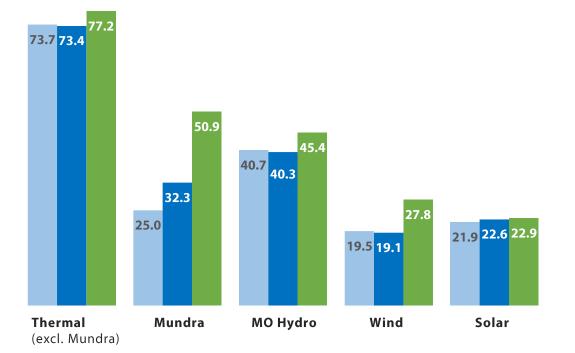


Operational excellence fueling benchmark results

Generation availability (%)



Plant load or capacity utilisation factor (%)



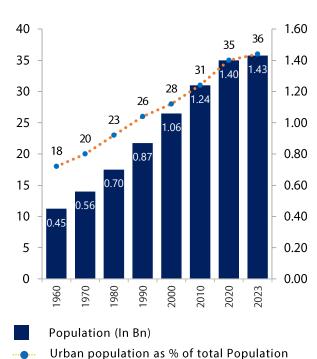


Indian power sector: Witnessing strong tailwinds

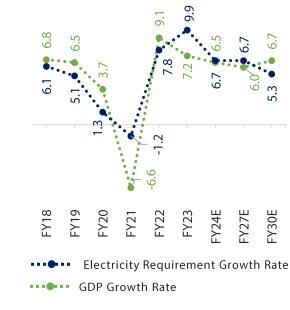


The power sector is set to grow as India grows

Rising population and urbanisation to drive demand

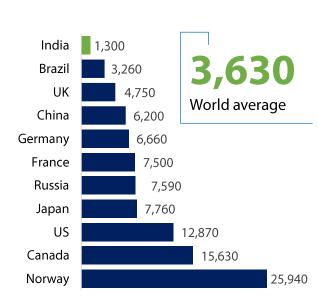


Strong Correlation seen between GDP and Power Demand growth (%)



Source: CEA, RBI, IMF, S&P

India has one of the lowest power consumption per capita (in units)

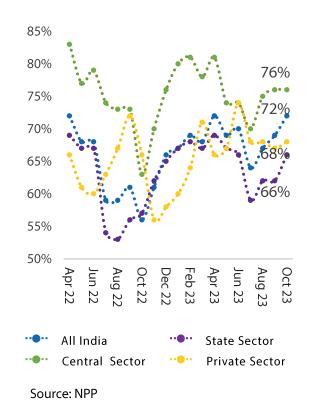


Data represents per capita power

consumption for CY22

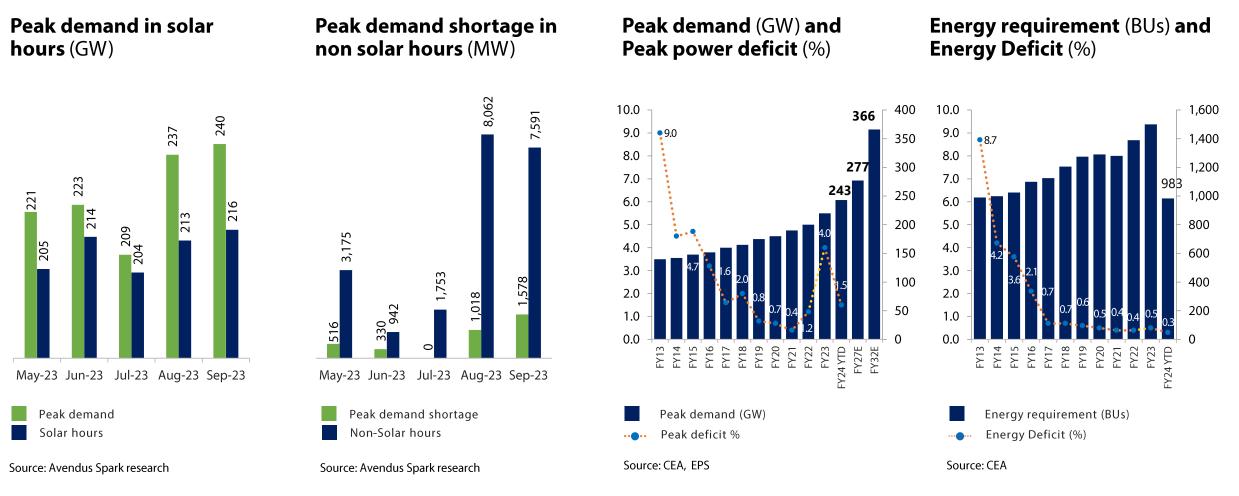
Source: ember-climate.org

All India coal-based generation Plant Load Factor (PLF) (%)





Rising power demand has resulted in power deficit inching up, especially during non-solar hours



TATA POWER Renewable energy

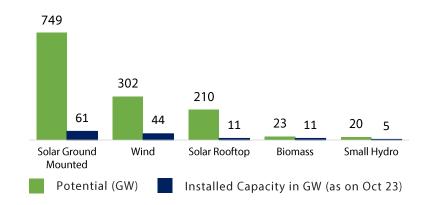
Our key growth driver





Clean & Green Energy to lead the way as India targets 500GW RE capacity by 2030

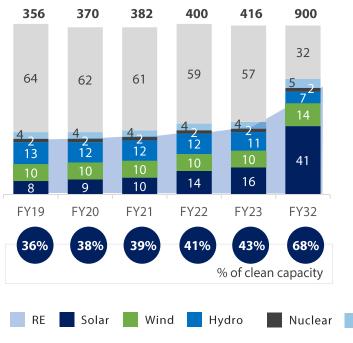
Immense Potential compared to currently Installed capacity of 132 GW*



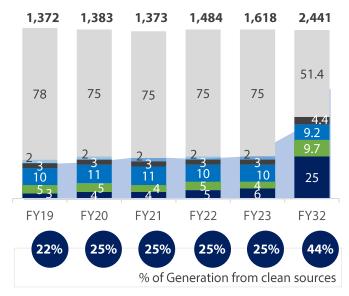
Huge untapped Renewable resource potential in India



Clean & Green to account for 68% of capacity in 2032 from 43% in FY23



Clean & Green to account for 44% of Generation (TWh) in 2032 from 25% in FY23



Thermal

Other non-fossil

Source: MNRE

Source:- CEA, NEP

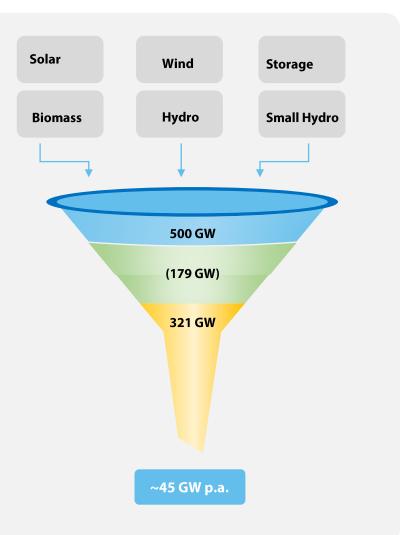


Strong Pipeline: 500GW 2030 target implies ~45GW Capacity additions each year on an average



224 GW

Auctioning needed until 2028* *to reach 500GW installed capacity by 2030



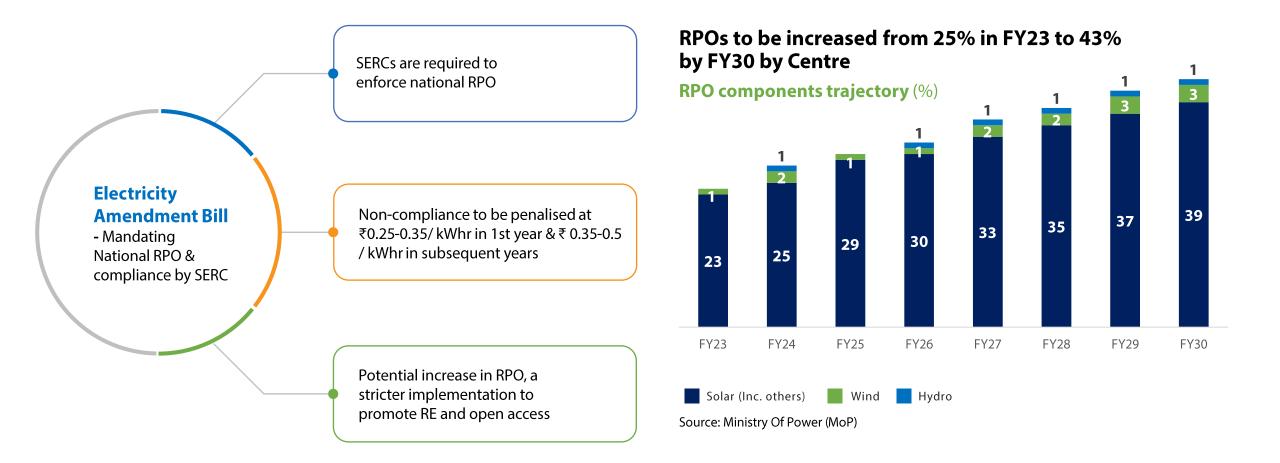
Renewable energy capacity target of 500 GW by 2030



Source: Nuvama Research



RPO* to spur renewable adoption on the demand side

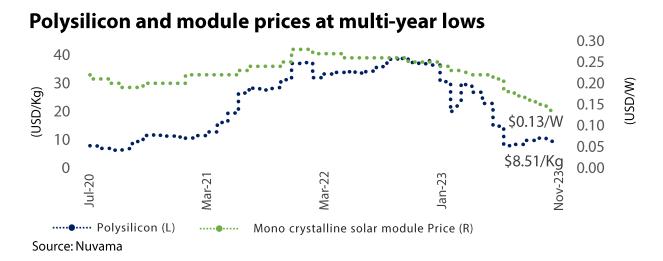




Record-low module prices and attractive RE tariffs should boost RE capacity additions



Source: CEA, Bloomberg, Avendus Spark Research



Renewable energy auction volumes (GW)



*As on Jul 2023

Source: BNEF- India's Renewable Energy Auctions 2022 Roundup, BTI RE Navigator

Minimum e-reverse auction tariff in India



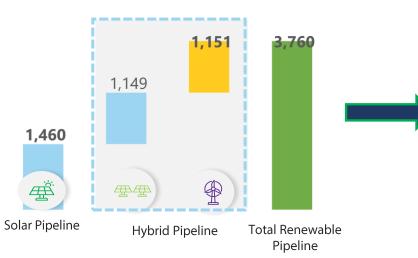
Clean & Green capacity target: >20GW by 2030, accounting for 70% of total



20+ 5.5 Current 2027 2030

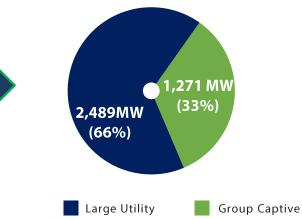
Source: Tata Power Estimates

Renewable capacity pipeline (MW)



Targeting 15GW+ Clean & Green Capacity by 2027 (GW)

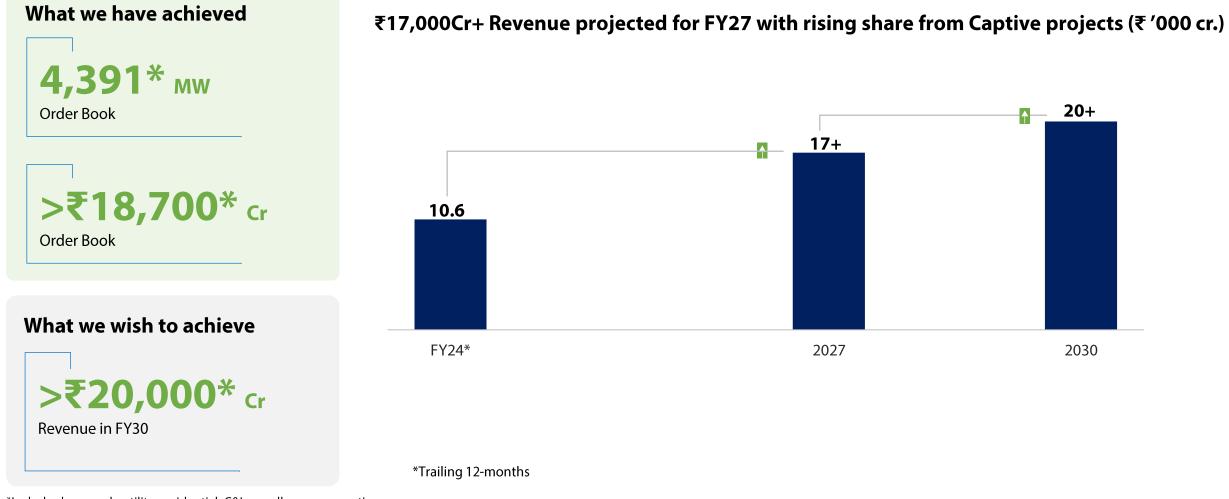
Group Captive accounts for a third of RE Pipeline



As on 30 September, 2023



TPSSL revenues to rise with declining contribution from third-party EPC

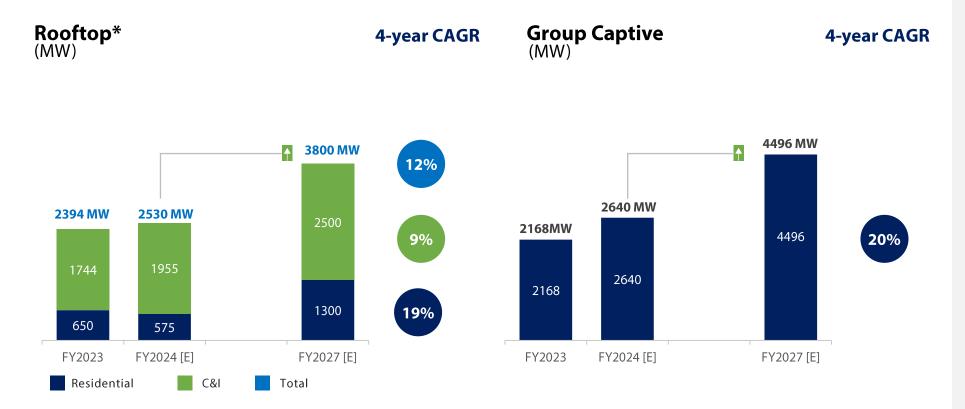


*Includes large scale utility, residential, C&I as well as group captive As on 30 September, 2023



Annual additions of Rooftop & Group Captive in India – Adding to RE growth story

Strong offtake across segments; 19% CAGR in residential and 20% for Group Captive till FY27



Demand drivers

Compelling economics

Rooftop: Reduces electricity bills by upto 80%+, payback period of 4-7 years

Group captive: Customer to invest ~8% of project Cost, payback in 2 years

Enabling regulatory ecosystem

Rooftop :

- Net Metering upto 500/ 1000 kW
- State administered subsidy programs for residential

Group captive

- 15-20% of savings through exemption of regulatory charges
- State administered subsidy programs for residential

Enabling regulatory ecosystem

- Increase in Govt of India's RE commitment to 500 GW by 2030
- Carbon neutrality / 100% renewable electricity targets of corporates

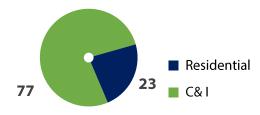
Note: Market estimates as per Bridge To India research, Tata Power estimates

*Rooftop segment includes Commercial & Industrial (C&I)

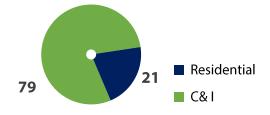


Tata Power Solar Rooftop: Differentiators to sustain Pole position

404 MW Rooftop capacity added in FY23 (%)



₹641 Cr order booked in H1 FY24 (%)



- Bifacial modules on roof
- Innovative products like hybrid, balcony, artefacts, solar tree
- Digital tools, e.g., array modelling, shadow analysis, daily report

VARIED OFFERING

- Presence across all customer segments
- EPC + Opex Models
- Solutions from 1 kW to multiple MW, powering 5K+ C&I, 43K+ residential customers

FINANCING

- Multiple tie-ups offer several options to customers
- Innovative products such as Instant EMI; term loan, etc.
- Collateral free, quick financing



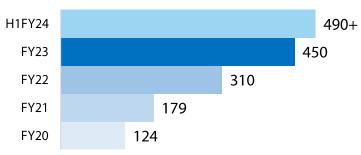
PRODUCT PORTFOLIO

- Value-added offerings: Bundling with roofing solutions,
- Performance analytics
- Innovative
 Premium products

CHANNEL & MARKETING

- 490+ Channel Partners (CPs) as on date – covering 275+ towns
- ~44% of FY23 revenue from CPs
- Customer referral and social influencers

Channel partner network growth





Tata Power EZ Charge- Only CPO* in India to operate across four segments



Home Charging

Brief-Tie-up with OEMs for home charging installations for their customers **Services**-Installation & commissioning Service



Fleet Charging

Brief-Tie-up with fleet operators for either deployment of charging infrastructure or accessibility of public charging stations

Services-Deployment of EV chargers in dedicated hub for fleet cars

Public Charging

Brief-Dependence on the current EV penetration and current utilization of the EV users

Services-Deployment of EV chargers in Public & Semi-Public Locations



Bus Charging

Brief-Tie-up with bus OEMs for deployment of charging infrastructure for their bus supplies/Govt. deals for e-bus chargers

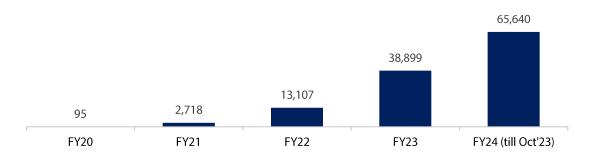
Services- Deployment of EV chargers in STU depots for Buses

*Charge Point Operator

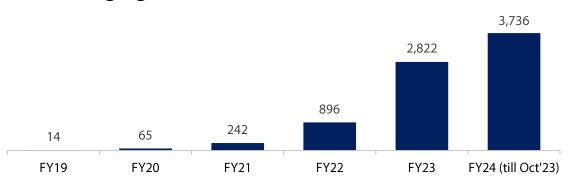


Tata Power EZ charge- Stellar growth in home and public charging segments

Home charging installation

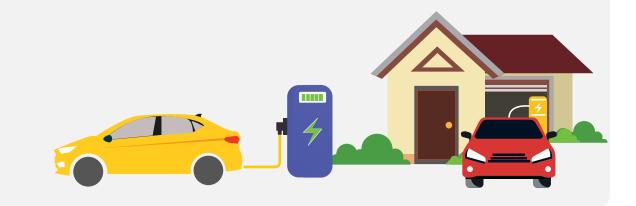


Source: Tata Power Estimates



Public charging stations

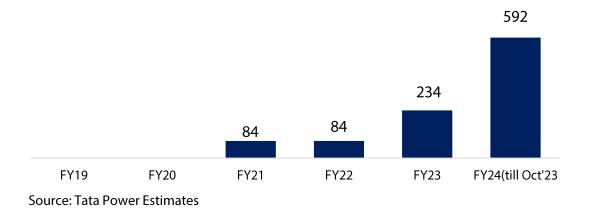
- Market leadership in public charging segment with ~55% share and ~85% share in home charger installations
- Exponential growth in-line with increasing EV adoption over the last 2 years
- Partnership with OEMs and fleet players leading to assured utilization and revenue



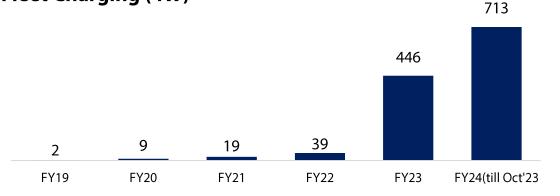


Tata Power EZ charge: Stellar growth in E-bus and fleet charging segments

E-bus Charging Stations



Fleet Charging (4W)



• Segment with assured utilisation and revenues/profitability

- Over 100% growth in first 8 months of FY24 in bus segment and 60% in fleet segment, healthy pipeline in execution
- Huge E-bus charging opportunity through PM E-bus Sewa programme, to introduce 10,000 electric buses to the city bus service across India
- Fleet opportunities in employee transportation services and mid & last mile delivery segment



Source: Tata Power Estimates



Tata Power EZ Charge: Targeting >10k Public and >200k Home chargers by FY28

Catering to every segment



4,900+ Public, Semipublic and Captive CPs



460+ Ultra high Capacity Bus Chargers energized in multiple cities **65,000+** Home Chargers installations

Energized

more than

towns

442+ cities &

¶ ₽ ₹ ✓

Award winning Advanced Software Platform and Mobile Application

Largest Player in the Country in Public Charging Space Current presence in 442+ cities & towns Largest by any CPO

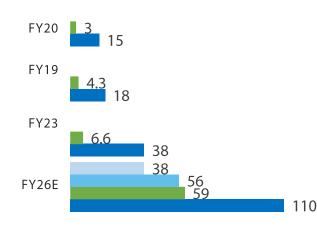
	Home Charging (Private 4W)	Captive Charging (Shared 4W & Bus)	Public Charging (Private & Shared 4W)
Tata Power green strategy	 ~85%+ of Home Charging market Partnership with OEMs as preferred service provider 	 ~40% of Fleet 4W & Bus Charging market Contracts with 4W fleets/Bus OEMs with minimum usage guarantee 	 ~55% public charging market share Post FY24, asset-light aggregator of franchisee operators
Rationale	 Enables customer acquisition from personal EV owners 	 Builds network presence & operating know-how with low risk 	 Enables capturing leading share of public charging & data
Growth outlook	>200,000 Home Chargers by FY28		>10,000 Charge Points (CPs) by FY28
Partnerships	Indian Navy	ATION	AND

Differentiated strategy for the 3 businesses



Contributing to India's Atmanirbhar ambition with our 4.3GW Cell & Module facility in Tamil Nadu

Estimated capacities expected to ramp-up by FY26 In India (GW)



Polysilicon production capacity
 Ingot/Wafer production capacity
 Cell production capacity
 Module production capacity

Proposed addition of Module capacity by large manufacturers (>1GW) by 2026

Reliance 10 Shirdi Sai Electricals 10 ReNew 4.8 Tata Power Solar 4.3 Grew Energy 4 Vikram Solar 3.8 Goldi First Solar 34 Premier 34 Avaada Waaree 3 Navitas 3 RenewSys 3 Solex 25 Rayzon 2.5 Jakson 2.4 Bharat Vikas Group 2 Jupiter Solar 2 Websol 1.8 Emmvee 1.8 Saatvik Gautam Solar

International players

Tata Power's first module out from 4.3 GW of Cell & Module



First Cell production scheduled in Q4FY24 Total Capex of around Rs. 4,000Cr

Source: JMK Research

Indian players

Transmission and distribution

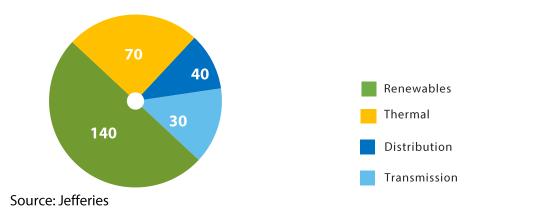
Long runway for Growth





Indian transmission: A USD30 Bn opportunity (till FY30)

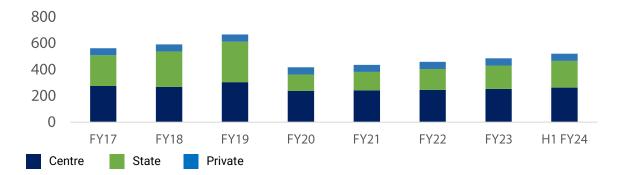
USD30 Bn transmission Capex anticipated between FY24-30E (USD Bn)



TBCB opportunity				
	Trans. Lines	Sub-station capacity		
As on FY23	4.7 lakh Ckt. Km	11.8 lakh MVA		
Additional opportunity by 2030	50,890 Ckt. km.	4.3 lakh MVA		

Pickup in transmission lines installation

Transmission lines (in Ckt km)



Source: CEA

- As a significant step towards successfully achieving 500 GW of RE capacity by 2030, the Ministry of power has outlined a systematic planning of transmission system which envisages huge-inter transmission opportunities till 2030
- Most of these projects will be bid through TBCB route, thereby, presenting a huge opportunity for the private players



Tata Power - Recent wins to expand Tata Power's transmission portfolio

What we have achieved



906 ckm Under construction Total Capex: ₹1,610 Cr

424 Ckm Declared L1 bidders Total Capex: ₹2,294Cr

Declared L1* on 4th October 2023

Project: Jalpura Khurja Power Transmission Limited (80 Ckm)

Project Brief

- Construction and O&M of 400 kV substation at Greater Noida and Jalpura in Uttar Pradesh
- Line in line out (LILO) of 400 kV line at Greater Noida substation and construction of 400 kV line from Jalpura substation to Tehri Hydro development corporation (THDC) Khurja Thermal Power Plant (TPP)

Capex: ₹750Cr

Declared L1* on 7th November 2023

Project:

Rajasthan Phase IV Part C (344 Ckm)

Project Brief

- Bikaner-III Neemrana-II 765 kV D/C line (2nd)
- 765 kV 110 MVAR switchable line reactor 6 at Bikaner III PS
- 765 kV 110 MVAR switchable line reactor 6 at Neemrana II S/S
- 765 kV line bays 2 at Bikaner III PS
- 765 kV line bays 2 at Neemrana II S/S

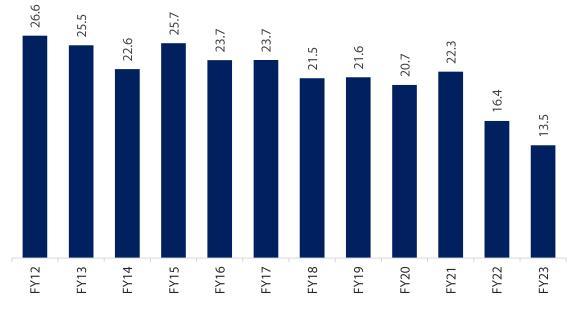
Capex: ₹1,544 Cr



India Distribution: On the mend but concerns remain

All India AT&C losses (%) have declined due to LPS and RDSS schemes

All India basis



AT&C (Aggregate Technical & Commercial) Losses (%) *PFC Report

Abbreviations:

LPS- Late payment surcharge

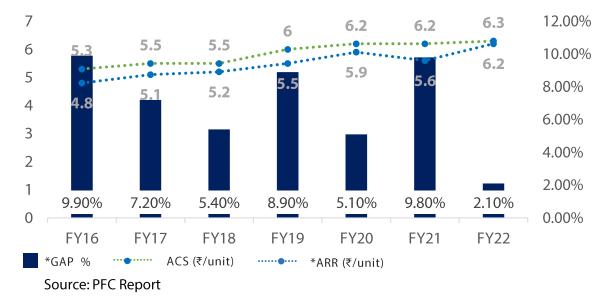
RDSS - Revamped Distribution Sector Scheme

ACS – Average cost of Supply

ARR – Average Revenue Realised

ACS –ARR gap has narrowed but continues to persist

Overall ACS-ARR GAP

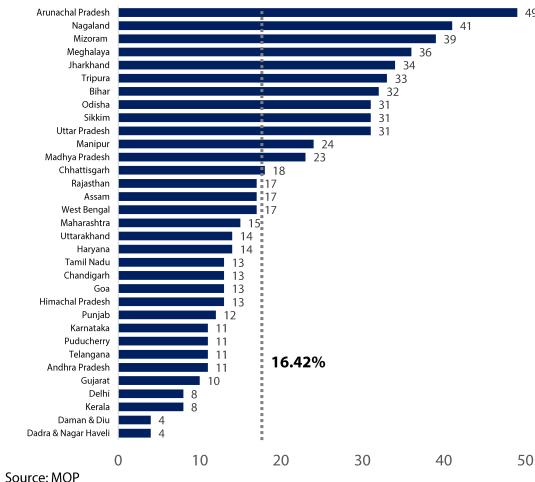


- Periodic and targeted measures taken by the Union govt helped DISCOMS improve their performance.
- Implementation of Late Payment Surcharge Rules inculcated a discipline amongst DISCOMs to make timely payment to Genreating Co's, thereby reducing overdue amount
- Increased smart metering implementation helped improve the billing efficiency

* After Tariff subsidy received

India Distribution: Several states continue to display high AT&C losses and remain in financial stress

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State-wise AT & C losses (%) for FY22

1,05,330 1,02,780 83,716 59,127 32,854 25,016 FY19 FY20 FY21 FY22 FY23 *FY24 YTD

Source: PRAAPTI portal *Till 24th November 23

Financial performance of DISCOMs					
Parameters	Unit	FY20	FY22		
Total Losses (on accrual basis)	₹ Cr	30,752	31,026		
Debt	₹ Lakh Cr	5.0	6.2		
Regulatory assets	₹Cr	65,414	75,178		
Accumulated losses	₹ Lakh Cr	5.05	5.52		

Source: PFC report

While green shoots are visible in power distribution sector, major concerns remain **Key challenges for State DISCOMs**

Increased power purchase cost

Shift of subsidizing C&I customers to options of OA/GC/RTS Limitation on taking **RE** benefits

RDSS and LPS reduce DISCOM Dues (₹ in Cr)



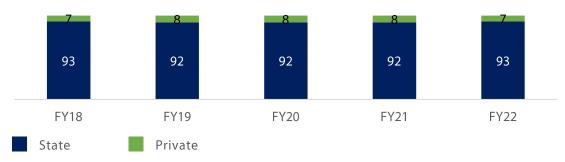


Private DISCOMs in a better shape; Tata Power has 50% share in Private DISCOMs

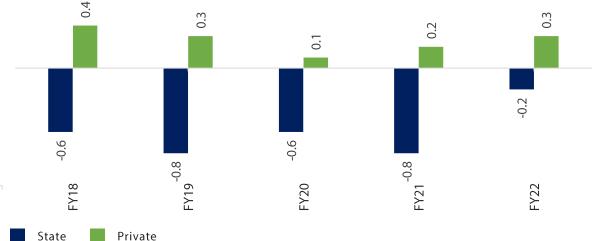
AT&C losses (State vs Private) (%)



Market share of State vs Private players (Revenue basis) (%)



ARR-ACS GAP (State vs Private) (₹/unit)



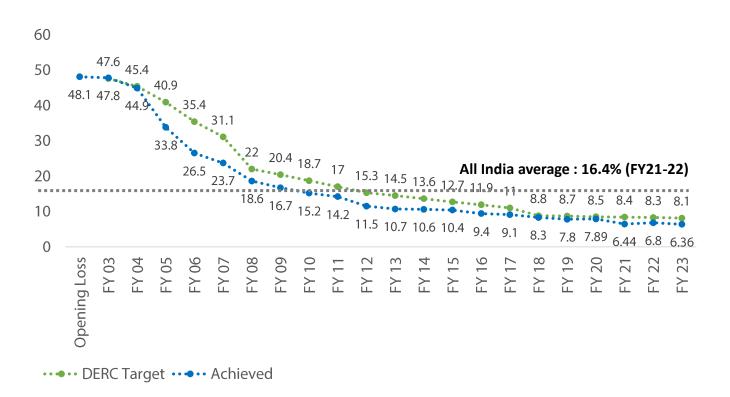
Our position among private players (%)



Source: MOP, PFC



TPDDL: Solid turnaround for the past two decades



TPDDL turnaround in Numbers

₹50,000 cr

Estimated saving to the Government (since takeover in FY02)

₹7,600 cr Cumulative Capex till FY23 **₹801** cr Dividend paid to the Government

*Loss level of 6.44% in FY21 due to additional collection pertaining to FY20 (Covid period), corrected AT&C is 7.26

Tata Power Delhi Distribution Limited (TPDDL) acquired by Tata Power in FY02



Odisha DISCOMs: Significant improvement in AT&C losses in a short span of time



Tata Power Central Odisha Distribution Ltd. (TPCODL)

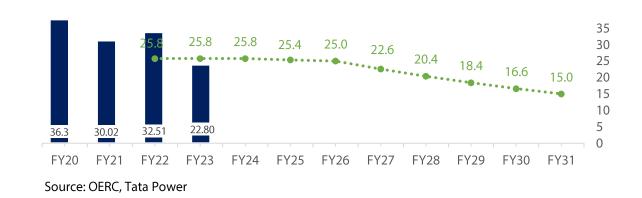
Tata Power Northern Odisha Distribution Ltd. (TPNODL)



Tata Power Western Odisha Distribution Ltd. (TPWODL)



Tata Power Southern Odisha Distribution Ltd. (TPSODL)



TPCODL acquired in June'20 TPWODL acquired in Jan'21 TPNODL acquired in Apr'21 TPSODL acquired in Jan'21



Levers of Odisha Turnaround Story

			°LI=10	
Improving Reliability & Quality of Power	Enhancing Safety Culture	Technology deployment	Consumer Centricity	Commercial focus
Predictive Analysis	Drone surveillance for overhead network monitoring	Innovative Tech - Trolley mounted Sub-station,	24 x 7 call centre services	Arrear Collections (₹ in Cr)
Reliability improvement measures like DTR augmentation, Network		Automatic Voltage Regulator Transformer, etc		411 257 370 576
strengthening, installing auto- reclosure & sectionalizers on feeders	PPEs to Employees	Advanced Distribution Management System	Multiple digital payment avenues	Theft Load (MW) 268 168 209 246
Sub-stations automated 206 115 148 115	Safety Audits & Practice Yards	AI based OCR meter reading , Drone technology for Bluetooth enabled meters.	TAT Matrix for redressal	Energy Audit & GIS Indexing of network & consumers
Capex to upgrade systems (₹ in Cr) 798 546 668 635	VR based safety trainings, Workmen family Behavioral- based safety awareness program	Smart Meter installation (thousands)68568555	New Connections (MW) 1063 519 1362 816	Mobile App & M-Pos integrated revenue collection app
Central PSCC	Contractor Safety Mgt	ERP, Billing & CRM	Rural PDS linked Anubhav Kendras	

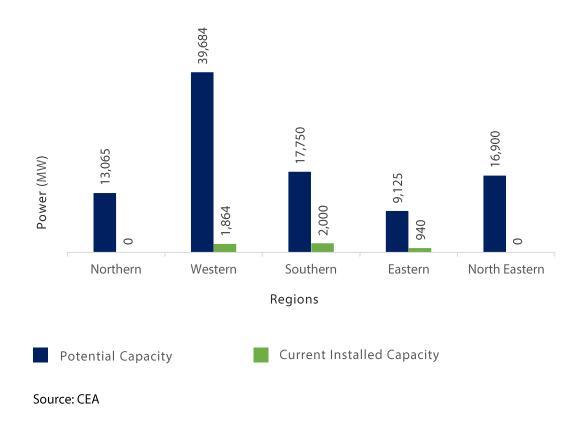


Pumped hydro plants: Our emerging growth lever



97GW of Pumped Hydro (PSP) potential in India with c40GW in Western India

Region-wise distribution of PSP potential and current PSP installed capacity (MW) in India

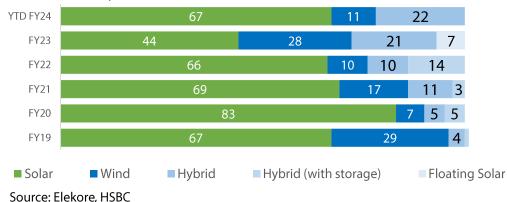


Current status of pumped storage hydro plants in India

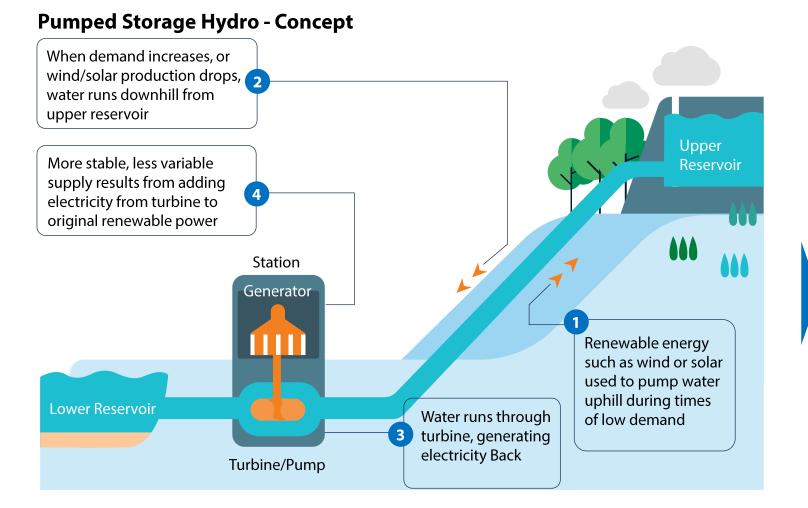
Status	No of projects	Installed capacity (MW)
In Operation		
Working in Pumping Mode	6	3,305
Not working in Pumping Mode	2	1,440
Under Construction	· · · · · · · · · · · · · · · · · · ·	
Under Active Construction	3	2,700
On which Construction is held up	1	80
DPR concurred by CEA	1	1,000
Under Examination	1	1,350
Under S&I (Survey & Inspection)	33	42,150
Under S&I Held Up	5	5,320
Grand Total	52	57,345

Source: CEA

Share of Hybrid in RE auctions has been rising (%)



Why Pumped Storage Hydro plants?



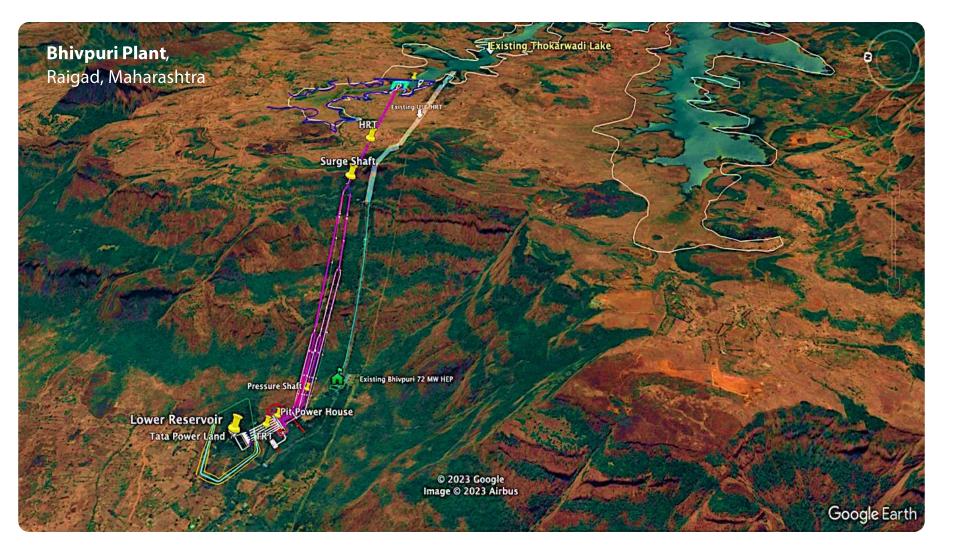
Benefits of PSP Green Storage Flexible and Reliable High Economic Value Useful life > 80 Years

Black Start Capability

As on 30 September, 2023



1,000 MW Bhivpuri PSP (Brownfield Project) - Key highlights



1,000 MW Bhivpuri PSP

Type Existing Off-stream

Upper Reservoir Thokarwadi – 352 MCM (million cubic meters)

Lower Reservoir New – 5 MCM

Daily Generation 6,000 MWhr

Capital Investment ₹4,700 Crores

Timeline: Start by Mid-2024 Completion- End 2027



1,800 MW Shirawta PSP (Brownfield Project) - Key highlights



1,800 MW Shirawta PSP

Type Off-stream

Upper Reservoir New -15 MCM

Lower Reservoir Existing Shirawta Dam 197 MCM

Daily Generation 10,800 MWhr

Capital Investment ₹7,850 Crores

Timeline: Start by Mid-2024 Completion by 2028



Our Pumped Storage (PSP) projects: Current Status



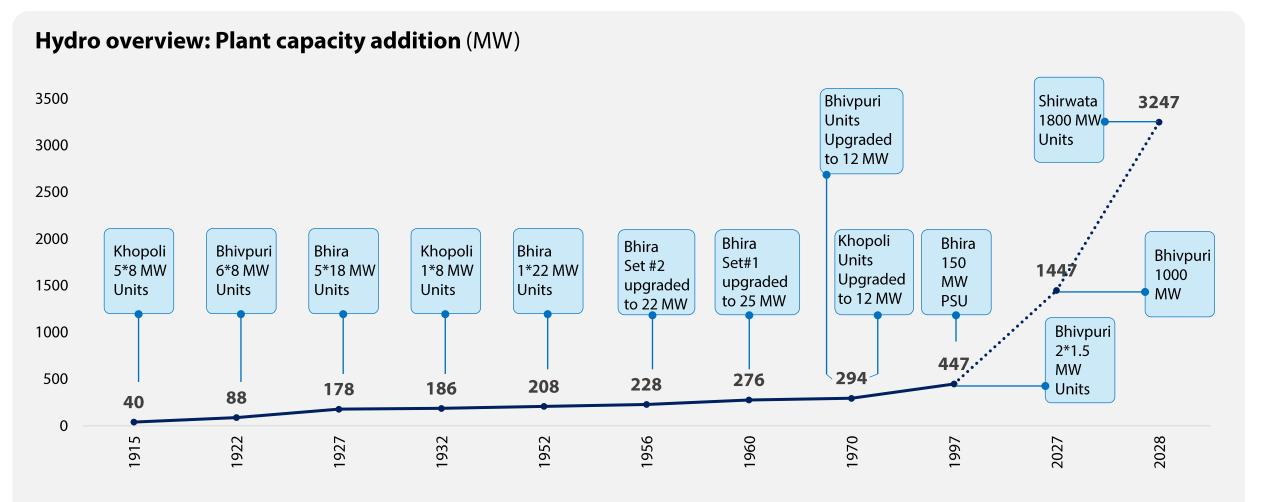
FSR submitted to CEA for approval. Project layout approved by CEA for survey & investigation (S&I). Investigation in progress. Connectivity application made to CTU; First consultation meeting held

Terms of Reference approved by MoEFCC Order placed for preorder engineering

Detailed Project Report (DPR) preparation in progress : Target January 2024



Domestic hydro capacity to rise by 7x+ post commissioning of PSP Projects





Additional potential of 9GW in the future should help support RTC of ~30GW



573 MCM Mulshi dam,

3,000 мw, Nenavali, Mulshi dam Upper Reservoir

Other Reservoir Sites of Tata Power



72 MCM Walwhan dam, Raigad,

3,000 мм,

Kataldhara, Walwhan dam Upper Reservoir



6 MCM **Kundali dam,** Khopoli



353 MCM Thokarwadi dam, Bhivpuri

3,000 mw, Poltalpali, Thokarwadi dam Upper Reservoir





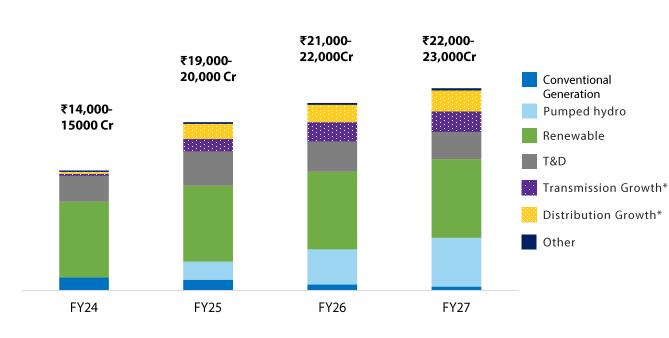


Looking ahead: Key targets for FY27

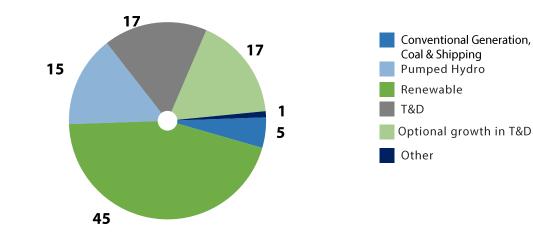


Tata power to deploy 45% of its capital to renewable sector

Estimated capex of around ₹60,000 Cr till FY27



45% of the capex to be spent on renewables between FY24-27e



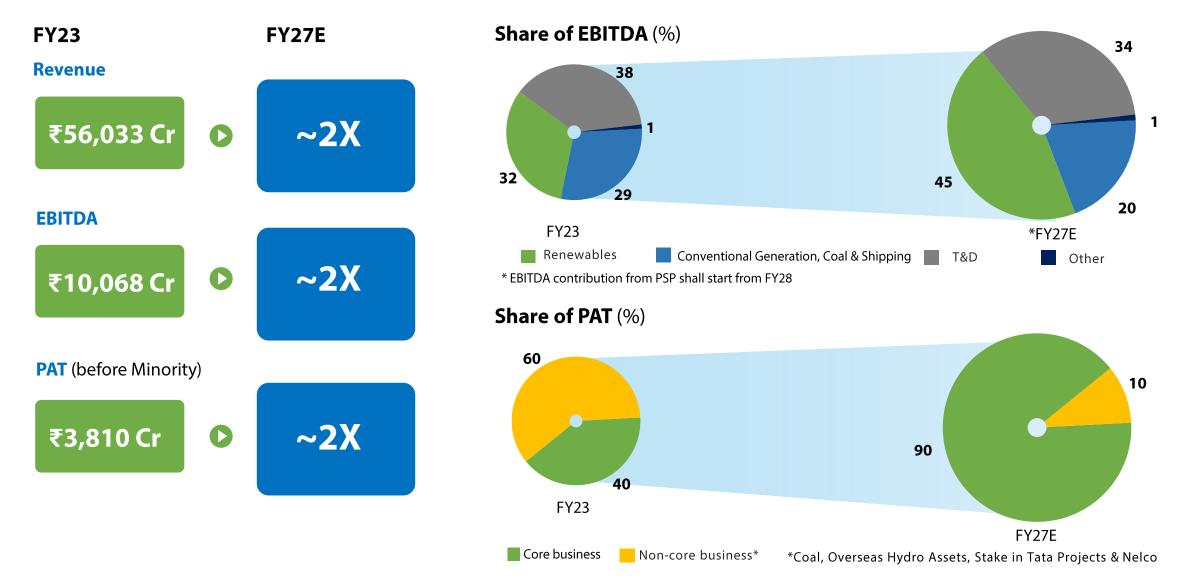
Source: Tata Power Estimates

*Optional Capex of ₹12,000 Cr subject to TBCB wins in transmission and DISCOM circles

Source: Tata Power Estimates



Confident about growing profits with rising share from core businesses





Sustainability: At the core of all that we do



Our sustainability aspirations

the Future' (IOT, Smart Grids, BESS, Green H2, robotic panel cleaning etc.)		Become carbon net zero before 2045	Become water neutral before 2030	Zero waste to landfill before 2030	No Net Loss to Biodiversity	(IOT, Smart Grids, BESS, Green H2, robotic panel
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Education - Train **35 lakh**+ youth as conservation and STEM education champions by 2028 Employability and Employment - **20 lakh+** youth trained and made employable by 2028 Entrepreneurship - Enable **1 lakh**+ community collectives (Self Help Groups) by 2028

Improve overall gender diversity ratio to **20%** by 2028 Leverage technology to create the **'Utility of the Future'** (IOT, Smart Grids, BESS, Green H2, robotic panel cleaning etc.)

Improve Sustainability Disclosures and get listed in DJSI Emerging Markets list by 2027 Inclusion in S&P Global Emerging Market List by 2027



Taking leaps towards our ESG goals

Particulars	Description	Baseline		Target		On going actions	
Farticulars	Description	Value (FY23)	Year	Value	Year		
	Clean & Green Portfolio	16%*	2015	70%	2030	• 38% RE portfolio as of June 2023	
	Net Zero (Absolute Carbon Emissions)	et Zero bsolute Carbon Emissions) 38.9 Million Tonnes 2023 100% 2045 • Renewable Portfo Thermal plant pha		 SBTi Commitment Renewable Portfolio Growth Thermal plant phase-out plan Annual plantation of more than 1 million saplings 			
Environment	Water Neutral (Fresh Water Consumption)	69.7 Billion litres	2023	100%	2030	 3% Fresh Water reduction 17% Rain Water Harvesting 80% by offsets 	
	Zero Waste to Landfill	5.96 Million Tonnes				Waste utilisation of Ash	
	Total Non HW Waste (including Ash)	5.8 Million Tonnes	2023	3 100% 2030		• Waste Management Plan for biodegradable waste, plastic, and e-waste	
	Education	1.6 Million beneficiaries	2023	3.5 Million	2028	CCD initiations made a maritima imment an 2.7 million lines array 17 hadian	
	Employability & Employment	39,156 beneficiaries	2023	2.0 Million	2028	 CSR initiatives made a positive impact on 3.7 million lives across 17 Indian states during FY23 E 50 Gr CCD mendia EV22 	
Social	Entrepreneurship	26,170 beneficiaries	2023	100,000	2028	• ₹ 50 Cr CSR spend in FY23	
	Gender Diversity (%)	9%	2023	20%	2028	 Women employees across roles 59% - Campus hires Policies supporting women in all life stages and mentorship program 	
Governance	DJSI Emerging Markets List (Absolute Score)	67/100	2023	80/100	2027	ESG Action Plan and Gap Analysis	

*Base Year 2015 for Clean & Green Portfolio in alignment with Paris Agreement



Gradually improving our ESG ratings

	2023	2022	2021	2020	2019	2018
DISCLOSURE INSIGHT ACTION CDP – Climate Change	В	В	С	С	D	D
DISCLOSURE INSIGHT ACTION CDP – Water	В	В	В	С	F	F
Dow Jones Sustainability Indexes DJSI	0 67	67	67	-	48	15
MSCI	D BBB	BBB	BB	BB	BB	BB
Sustainalytics	9 40.9	41.2	38.6	-	-	-



Achieving 100% clean power generation by FY 2045

2015

Largely a coal-based company, having capacities to fulfil the energy demands of a developing India

2023

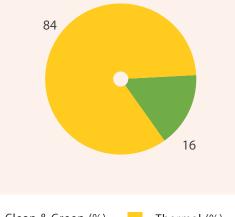
Transitioning towards a clean and green portfolio through renewable energy capacity expansion

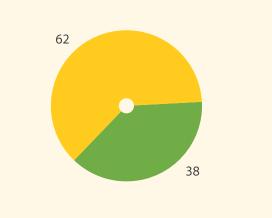
2030

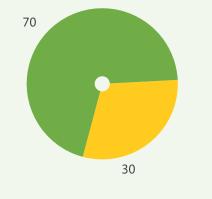
Clean & Green Capacity will account for 70% of our overall capacity in 2030

2045

Phasing out thermal portfolio before 2045 as Power Purchase Agreements (PPA's) for our thermal capacity expires









Clean & Green (%)

Empowering Communities



CSR Mission

To work with communities in the vicinity of our operations or as specially identified, to gain their acceptance of co-existence by addressing salient development imperatives

The key interventions for target communities are focused in the following thematic areas

Education	Employability & Employment
Entrepreneurship	Essential Enablers

3.7 Mn Touching lives



**Tata Power has taken a major leap in the CSR ranking by securing a spot in top 10 as against its 57th rank in the last year



Powering Transforming

Public Private Partnerships (Collaboration & Leverage)	Improving access & creating opportunities	Far Reaching Impact on Community and Co- ownership
Optimal Utilization of Resources (Premises)	Green Jobs	Technology Enablement
Institutionalisation & Standardization	Tree Mittra leveraged for social afforestation	

**Source: https://www.futurescape.in/responsible-businessrankings/ | https://thecsrjournal.in/top-100-companies-indiacsr-sustainability-2021/

As on 30 September, 2023



Well-established governance framework

Our CSR and Sustainability Committee at the Board level guides the strategy, and the Apex Leadership Team enables its impactful implementation





Robust Governance Structure in place



Governance policies Tata Code of Conduct Code of Conduct for Independent Directors Code of Conduct for Non-Executive Directors • Related Party Transactions Policy, Framework & Guidelines Whistle Blower Policy & Vigil Mechanism Risk Management Policy - ISO certified • process CSR Policy • Tata Code of Conduct for Insider Trading and Corporate **Disclosure Policy** • Dividend Policy Policy for Determining Material Subsidiaries • Policy for determining Materiality for Disclosures • Remuneration Policy for Directors, Key Managerial Personnel and Other Employees Charters of various Board appointed Committees ... and others



What sets us apart

Deeply entrenched Power company with history of more than 100 Years

1910-1955 2011 2020 2007 2023 2018-2019 Completed acquisition of Commissioned first solar Sold 3 ships for US\$ 213Mn • **1910:** Incorporated as Resurgent Power Ventures TPREL received second tranche of asset of 3 MW at Mulshi, 30% stake in Indonesian Coal Tata Hydroelectric acquired 75.01% equity ₹2,000 Cr and issued compulsorily Tata Sons infuse ₹ 2,600 crore; Mines: KPC Arutmin & Indo Maharashtra **Power Supply** stake of Prayagraj Power convertible preference shares raise promoter holding to 47% Coal for US\$1.15Bn Company Unit 1 of 525MW Maithon Generation Limited (PPGCL) (CCPS) which will result in further from 37% Tata Power - Mundra signed Power Limited (MPL) dilution of 5.37% equity stake **1915:** 1st Hydro power Announced the sale of Completed sale of Defence PPA with 5 states (Gujarat, commissioned generating station (40 South African JV Cennergi TPREL receives LoA for 966MW business to Tata advanced Maharashtra, Punjab, MW) commissioned at for US\$84mn Hybrid RE Project from Tata Steel Systems Ltd. for ₹ 1076 cr. Haryana & Rajasthan) Khopoli, followed by 2012-2013 Won bid for the installation Tata Power signs MoU with Maha Took over the distribution in Bhivpuri (1922) and Industrial Energy Limited of 105MWp largest floating Govt. for development of 2.8GW of Central Odisha TPCODL Bhira (1927) (IEL), a JV formed between • 2012: Commissioned 2nd Pumped Storage Project (PSP) solar plant in Kavamkulam, formed as JV between Tata Tata Power (74%) and Tata unit of 525 MW in MPL Kerala Power (51%) and Odisha 4.3GW Cell & Module Plant achieved Steel (26%) to meet power • 2013: 5 units of 800 MW Government (49%) First Module Out (FMO) in October requirements for Tata Steel each at Mundra UMPP 2023 commissioned, the first super critical technology in India • 2013: Acquired 26% share in the Indonesian coal mine 1956-2000 2001-2005 2022 2016-2017 2021 BSSR for US\$ 152 million **2016:** Acquired 1,010MW • Took over the 1956-65: 3 units of 62.5 MW Mundra (CGPL) • **2001:** Commissioned first operational RE assets of distribution each and 4th thermal unit of amalgamated into wind asset of 17 MW at Supa Welspun, renamed it to in North-Eastern 150 MW capacity at Tata Power Maharashtra Odisha, Western and Walwhan Renewable Energy Trombay commissioned Tata Power Renewable **2002:** Took over distribution Ltd (WREL). Southern Odisha. 2014-2015 **1977:**150MW pumped Energy Limited (TPREL) of Delhi, later renamed as TPNODL, TPWODL and 2016: Resurgent Power JV storage at Bhira upgraded entered into an agreement TPDDL a JV between Tata **TPSODL** formed as JV 2014: Entered into formed by Tata Power and to raise ~₹ 4,000 (US\$ 525 • 1984: 500 MW-5th Unit Power (51%) and Delhi between Tata Power agreement to sell 30% ICICI Venture to acquire million) crores by issuing (51%) and Odisha established at Trombay, to Government (49%) stake in Arutmin for stressed assets in Indian Power shares to a consortium of supply uninterrupted supply Government (49%) US\$401Mn 2003: Entered a JV with Sector. Tata Power holds 26% Blackrock and Mubadala to Mumbai PGCIL, to develop a 1,200 Km 2015: Commissioned stake in Resurgent Power" Resurgent announces • **1991:** 1st Solar cell long transmission line to the 126MW Dagachhu 2017:Tata Power Ajmer acquisition of 100% stake in manufacturing capacity is bring electricity from Bhutan Hydro Power **Distribution Limited (TPADL)** NRSS XXXVI Transmission set up by TPSSL in to Delhi Corporation in Bhutan formed to take over supply

and distribution of Ajmer

collaboration with BP Solar

TATA POWER

Ltd. and SEUPPTCL

(Transmission Company)



Most vertically integrated and diversified power portfolio in India

Tata Power Company	Limited (TPCL) H1	Y24 Revenue (₹ 30,446	in Cr) EBITDA (₹ in Cr) 6,092	Net Debt (₹ in Cr) 36,609	PAT*** (₹ in Cr) 2,158
Thermal generation, co hydro renewables	oal & Renew	ables^	Transmission	& distribution	Eliminations/ Others (Incl. corporate taxes , expenses and interest)
Revenue EBITDA (₹ in Cr) (₹ in Cr) 9,800 2,107	PAT Revenue (₹ in Cr) (₹ in Cr) 1,370 4,235	(₹ in Cr) (₹	in Cr) (₹ in Cr) (EBITDA PAT (₹ in Cr) (₹ in Cr) 2,180 683	Revenue (₹ in Cr) EBITDA (₹ in Cr) PAT (₹ in Cr) (2320) 84 (321)
Mundra4,150 MWCoalTrombay930 MWCoal/GasMaithon (MPL)1,050 MWCoalPrayagraj (PPGCL)*1,980 MWCoalJojobera428 MWCoalHaldia120 MWCoalIEL483 MWCoal/WHRSRithala108 MWGas	STAKE 100% 100% 20% 20% 100% 100% 100% 100% 100% Solar Power Wind Energy UNDER CONS Solar Power Hybrid Fybrid EV CHARGIN Public Home E-Bus	1,460 MW 2,300 MW	Mumbai Tata Power Delhi (TPDDL) Odisha JAA JistriBUTION FRANCHISE JistriBUTION FRANCHISE	0.16 Mn 100%	ENTITYBUSINESS MODELSTAKETata ProjectsEPC31%NelcoCommunication50%CorporateStatementStatement
Kaltim Prima (KPC) 60 MT BSSR & AGM 18 MT NTP (Coal Infra) - TERPL (Coal Shipping)** - HYDRO CAPACITY	STAKE PARTICULAR 30% Vitility Scale Sol 26% Utility Scale Sol 30% Rooftop EPC 100% Cell & Module C STAKE TP SOLAR: UI	EPC ₹15,870 Cr ₹2,872 Cr	BOOK Powerlinks Cr SEUPPTCL NRSS XXXVI 2 MW UNDER CONSTRUCTION SEUPPTCL	CIRCUIT KM STAKE 1,264 100% 2,328 51% 789 26% 1.5 26% 754 26% 151.5 26%	
Bhivpuri75 MWKhopoli72 MWDagachhu126 MWItezhi Tezhi120 MW	100% Cell & Module 100% 26% 50% 50%	4,300 MW	THISS NOAT		

* Resurgent owns 75% in Prayagraj | **TERPL is a wholly owned subsidiary of Tata Power International Pte Ltd., which is wholly owned by Tata Power. | ***Reported PAT before Minority Interest after exceptional items | ^ Tata Power currently owns 93.94% stake in Renewables (TPREL). CCPS has been issued which will result in further dilution of 5.37% equity stake in TPREL | ^^15 MW is for IEL

JVs and Associates

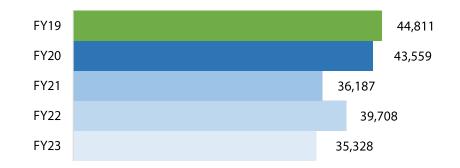
Standalone Divisions

Subsidiary

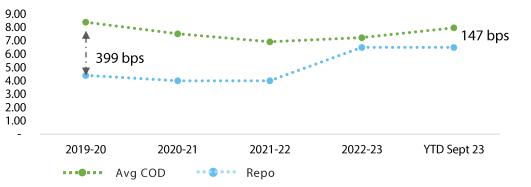


Well-capitalised with one of the strongest Balance Sheets

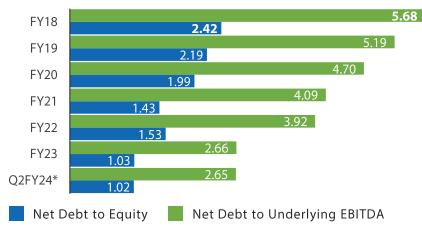
Net Debt (₹ in Cr)



Relatively smaller rise in Cost of Debt (CoD) compared to rise in Repo rate (%)



Balance Sheet continues to strengthen



Credit rating continues to improve

Credit Rating* (Consolidated)	2019-20	2020-21	2021-22	2022-23	Current
CRISIL	AA- /Positive	AA /Stable	AA /Stable	AA /Stable	AA /Positive
ICRA	AA- /Stable	AA- /Positive	AA /Stable	AA /Stable	AA /Positive
India Ratings	AA /Stable	AA /Stable	AA /Stable	AA /Stable	AA /Stable
CARE	AA /Stable	AA /Stable	AA /Stable	AA /Stable	AA /Positive
S&P Global	_	B+ /Positive	BB /Stable	BB+ /Stable	BB+/Stable
Moody's	_	Ba3 /Stable	Ba2 /Stable	Ba2 /Stable	Ba1 /Stable

*Credit Upgrades indicated by deepening shades of blue

*Trailing twelve months



Well poised to achieve our aspirations

An All-round **"Utility of the Future"**



PSP Projects to add 2.8GW to our Clean and Green Energy Portfolio



Double Revenues, EBITDA and profitability by FY27 with rising contribution from our Core Businesses -Generation, Renewable, Transmission and Distribution, in India



Clean & Green portfolio to reach 70% of the generation capacity by 2030



Expand distribution footprint to **40 million customers by 2027;** and grow transmission business through **TBCB & M&A** in transmission



Lead industry in transition to **carbon** neutrality by 2045, 100% water neutral and 100% zero waste to landfill-biodegradable waste by 2027



Thank You!

INVESTOR RELATIONS TEAM

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