

Transforming *Future* for a *Sustainable* Tomorrow

ICICI Securities Virtual ESG Conference 25th August 2021



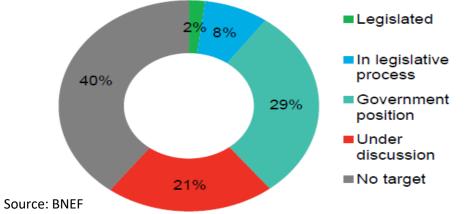
The Global ESG Context

TATA POWER THE World is coming together: BUT IS IT ENOUGH?



OCC

Carbon neutrality targets now covers 60% of the world's emissions





US rejoins the Paris Agreement

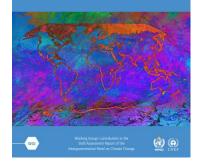
EU ministers to agree to make climate neutrality by 2050 binding

South Korea beefs up Climate goal amid mounting global pressure Japan pledges net-zero emissions by 2050 without clear roadmap China vows Carbon Neutrality by 2060 in major climate pledge

IPCC report - 'Code red' for human driven global warming

First instalment of the Intergovernmental Panel on Climate Change's (IPCC) **Sixth Assessment Report** was released on **9**th **Aug**

Approved by **195 member** governments Climate Change 2021 The Physical Science Basis



The report outlines that climate change is:

- Intensifying the water cycle
- Affecting rainfall patterns
- Coastal areas will see continued sea level rise
- Amplify permafrost thawing
- Affect ocean ecosystems
- Amplified climate change impact in cities

Unless there are immediate, rapid & large-scale reductions in greenhouse gas emissions, limiting warming to close to 1.5°C or even 2°C will be beyond reach.



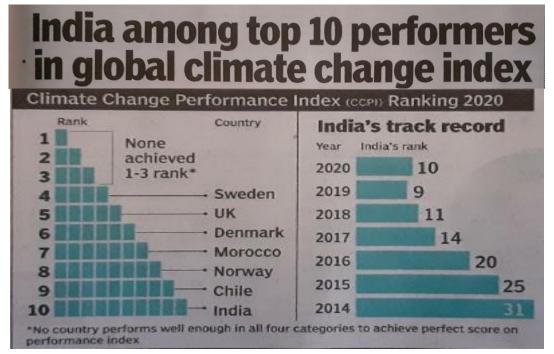


Accounts for:

- **17.7%** of the world's population
- 7% of the world's greenhouse gas emissions.

Nationally Determined Contribution (NDCs)

- India, only country among G20 nations on track to achieve targets under the Paris Agreement
- India has 3 quantitative goals for 2030;
 - Reducing emission intensity of GDP by 33-35%;
 - Achieving 40% cumulative electric power installed capacity from non-fossil fuel-based resources;
 - Creating carbon sink of 2.5 to 3 billion tonnes of CO₂ equivalent through forest and tree cover.

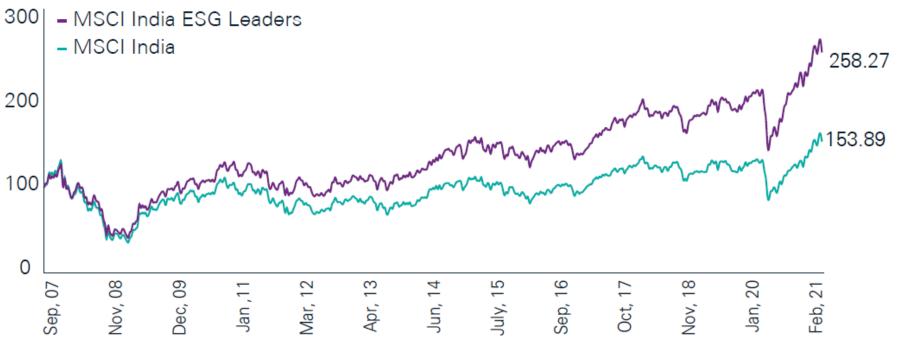


(Source: Nov 2020 Climate Transparency Report)

India to continue push towards Renewable Power growth to meet the Paris Agreement targets

ESG: emergence of a new world order

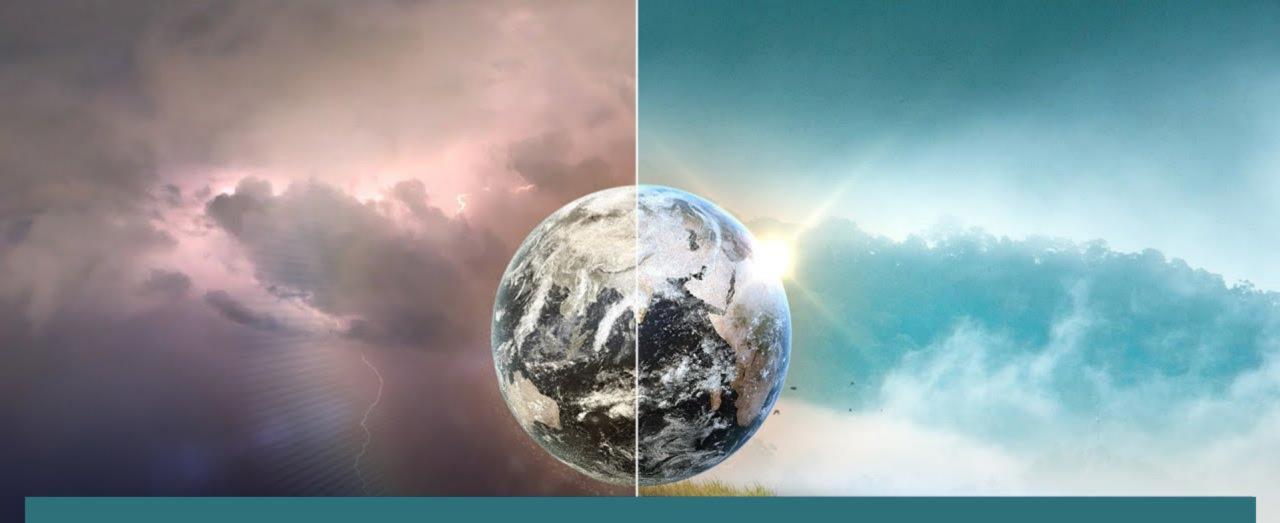
- ESG is value protective and now a commercial issue in addition to regulatory and social license to operate concerns
- Capital markets, regulators & investors are demanding greater management and disclosures of ESG issues
- Driving value creation- growing understanding of strong performance across nonfinancial indicators being correlated to strong financial performance.
- ESG must converge with strategy and be stakeholder driven



MSCI India ESG leaders Index performance- Cumulative index performance of gross returns, USD (September 2007- February 2021)

The above graph shows that MSCI India ESG leaders have consistently performed better than their counterparts over the past decade.

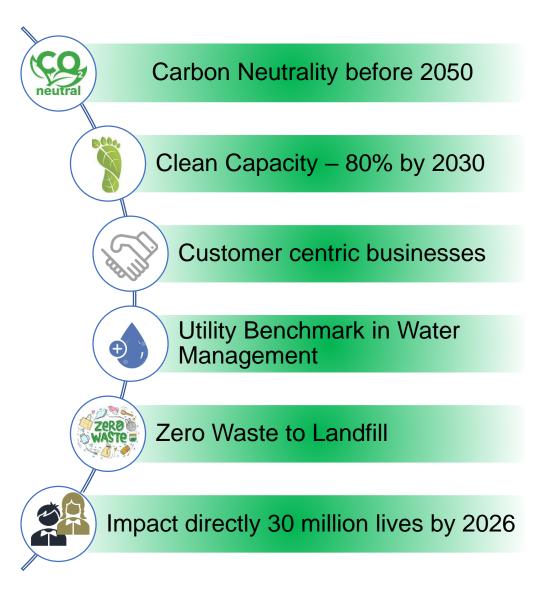
Source- KPMG ESG value realization report 2021.



Our journey towards a Sustainable Tomorrow

Tata Power ESG Aspiration



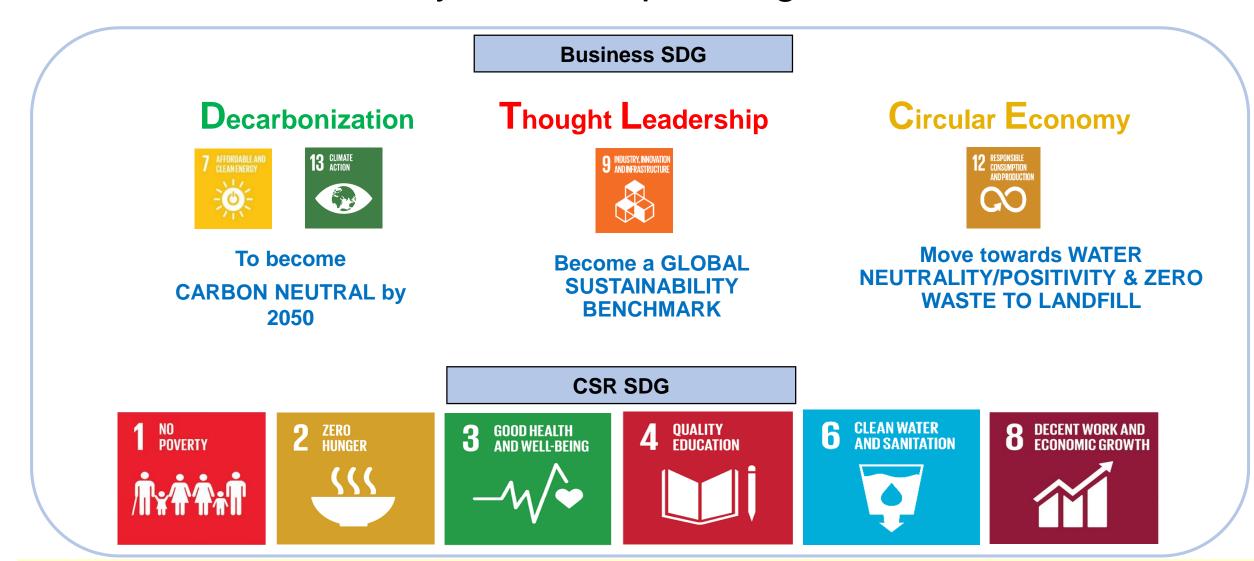


Clean Capacity – Includes wind, solar, hydro and waste heat gas-based capacity

- No new coal-based capacity; phase out by 2048 with the closure of contractual obligations (PPA)
- Pursue 2 GW of solar and hybrid capacities annually to grow from 4.2 GW to 15 GW by 2025 & >25 GW by FY 30
- Promote mass adoption of rooftop solar & solar pumps, microgrids, & home automation
- Lead EV charging infrastructure to spur ecosystem
- Adopt practices to become 100% water neutral before 2035 across businesses
- New age tech & policies to target 100% water positivity by 2050
- Benchmark waste & fly-ash management (100% utilization)
- 100% Zero waste to landfill before 2035
- Train 10,000 trainers to deliver blended training to 4 lac+ youth
- Build capabilities of 25,000+SHGs
- 30% of outreach to affirmative action-based disadvantaged groups







Business-wise targets have been set for the prioritized SDGs to create a Roadmap



Tata Power Setting the global agenda in Energy utility sector

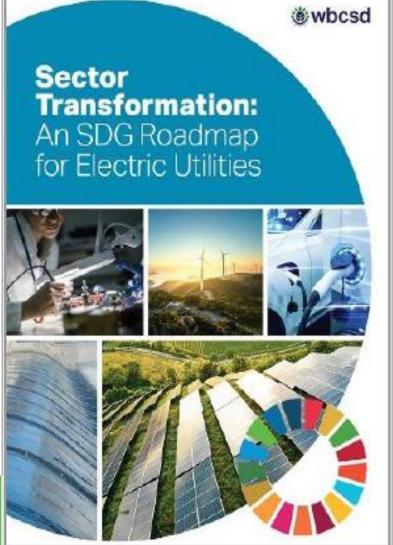


Sector Transformation: An SDG Roadmap for Electric Utilities

- Published on 15th Mar 2021 First SDG Roadmap for Power Utilities published by WBCSD
- Tata Power, the only Indian utility, to co-create the roadmap with 10 other global power companies over 18 months.
- Amplification plan- planned webinar with other participating companies (Interested – ENEL, Celsia, CLP, Kansai Electric Power)

Priority SDGs for Electric Utilities sector

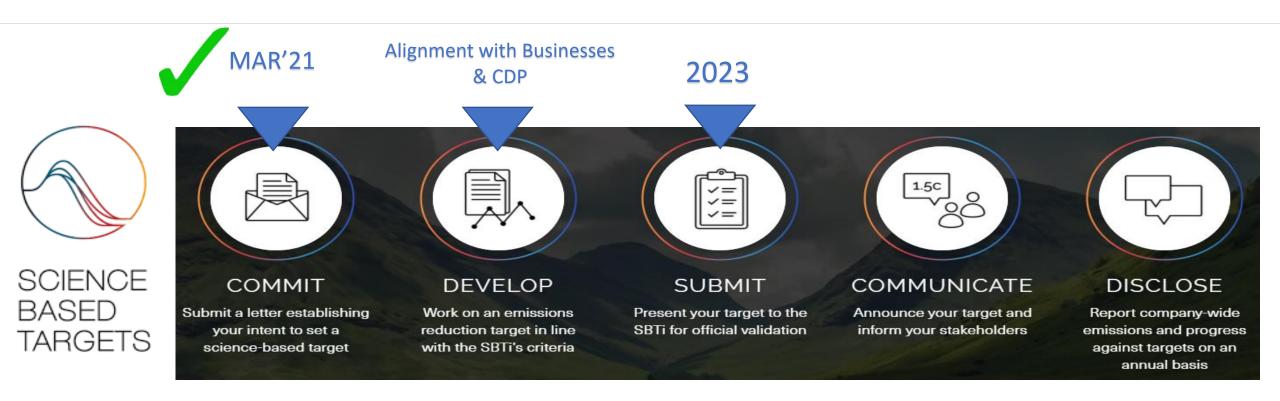




Tata Power Commits to Science based target initiative (SBTi)

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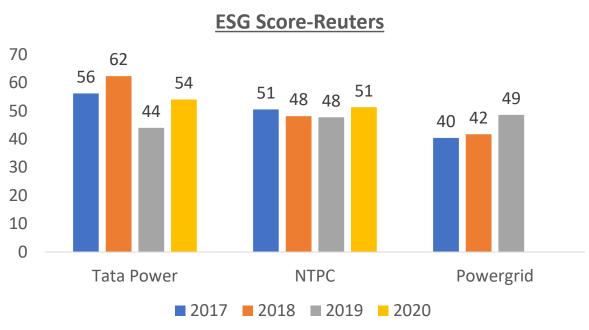
Currently evaluating different scenarios aligned to below 2 degrees celsius and fixing reduction targets and mid-century target year basis, the Sectoral Decarbonization Approach (SDA)



Benchmark in utility sector

Tata Power competitively placed in ESG Ratings





TATA POWER

ESG Score-Bloomberg 57 52 ⁵⁵ 60 47 47 50 44 45 44 43 40 35 32₃₁₃₀ 21 21 25 30 20 10 0 Tata Power NTPC **JSW Energy** Adani Power Powergrid

2018

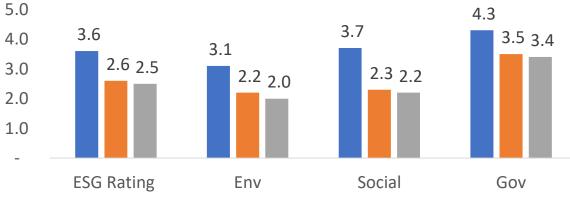
2017

ESG Rating	2020	2019
CDP - Climate Change	C 🚺	D
CDP - Water Security	C	F (non- disclosure)
MSCI Rating	BB	BB
FTSE Russell	3.6 🚺	3.5

2019

2020

FTSE Global Comparison



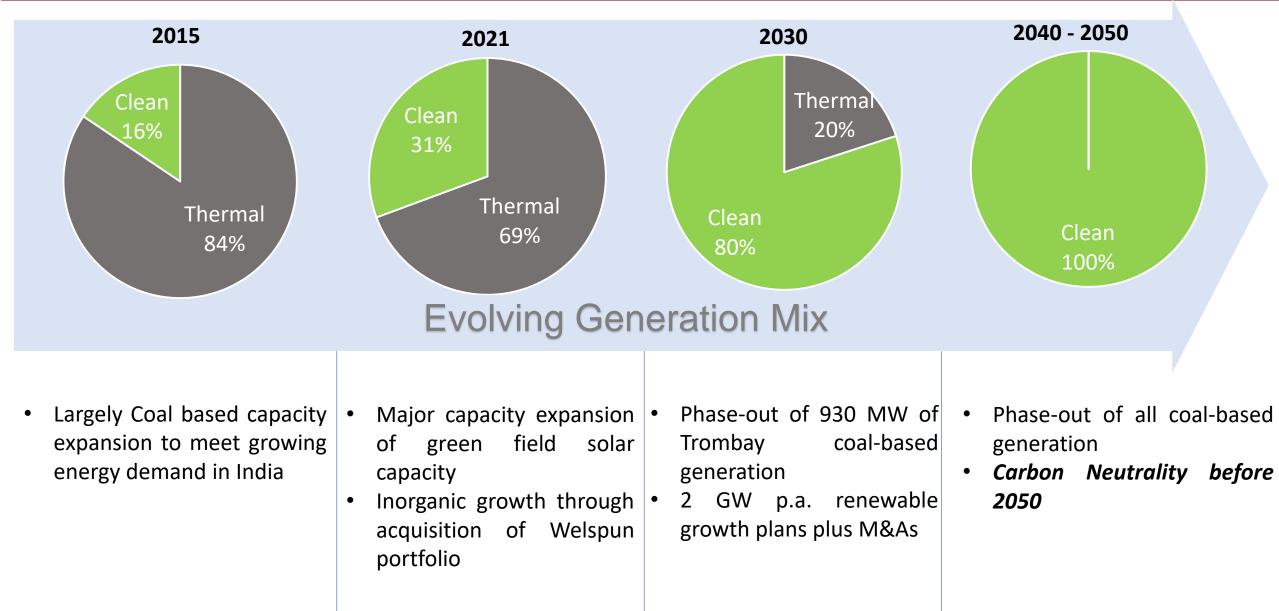
■ Tata Power ■ Industry Avg: Utilities ■ Sub Sector: Conventional Elec

Redrawing our Strategy with Sustainability at the core

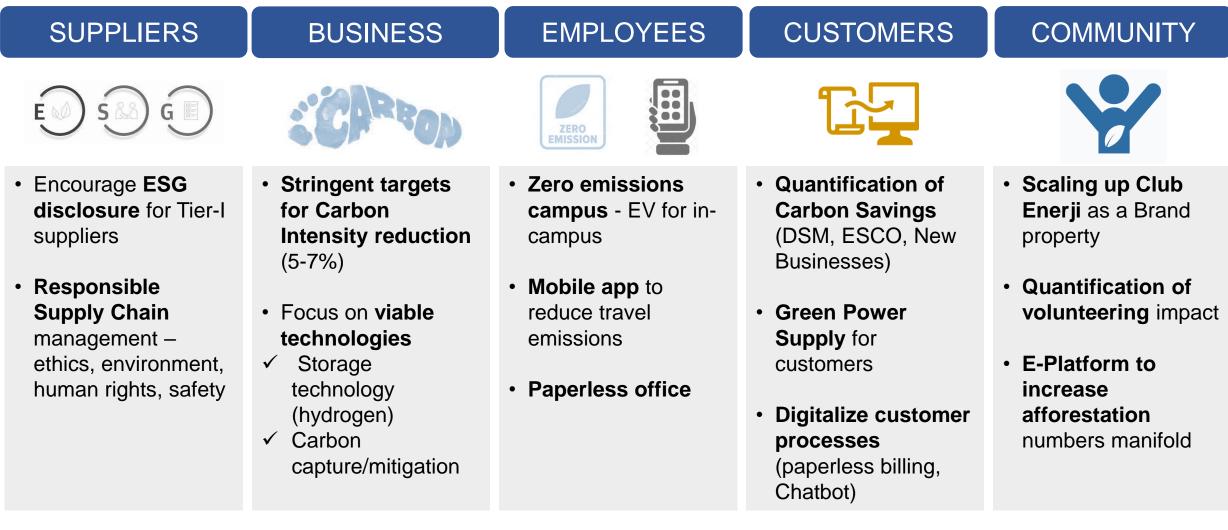
Lead Utility transition to Clean Energy

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Carbon Mitigation Framework to include the CO2 savings across stakeholder groups



Do



Bringing together Smart, Green choices for retail customers #DoGreen

EZ Home | Creating Smart Homes of tomorrowEZ Charge | Empowering Smart mobility solutions of tomorrowSmart Meter | Creating energy Management solutionsGreen Power | Enabling Sustainable energy consumption

things

Little

a Greener Tomorrow



Empowering consumers -Low Carbon Business offerings



Microgrids

TP Renewable Microgrid Ltd. launched on 4th Nov 19





Tata Power has already installed 161 Micro-grid sites in UP & Bihar

Another 62 sites for microgrid are in pipeline.

10,000 Microgrids by FY27

Solar Pumps

Transition from diesel to solar powered agricultural supply



Solar power pumps supports field irrigation and supplying potable water for communities, while drawing water from underground multiple water sources

Targeted installation of ~2.5 lakh pumps in FY26

Rooftop Solar

Installed 600+ MW of Rooftop capacity



Tata Power Solar being ranked # 1 Solar Roof player for last seven years by Bridge to India

30,000+ customers across 100 cities



EV Charging

Installed 600+ public EV charging points in 102 cities; 3000+ home



Charging, driving innovative and EV seamless Electric Vehicle (EV) charging experiences for its customers across Home, Offices, Malls, Hotels, Retail Outlets and places of public access, enabling green

> Estimated 2 million tonnes CO2 savings per year by FY25

Home Automation

Smart solutions for residential customers to monitor and control devices remotely and enable energy and cost savings



Home automation solutions, to drive efficiency, through innovative home energy automation solutions for all consumers, enabling the convenient and remote use of home appliances

IoT solution to operate, schedule, monitor appliances remotely

ESCO

360-degree smart energy solutions for large commercial & Industrial clients







Energy management solutions

Energy Services encouraging clients to embrace digitalisation and monitor energy savings to substantially reduce carbon footprint and lower the energy consumption.

Integrated Energy as a Service (EaaS) offerings

Empowering customers – Technology & Innovation





FIRST Distribution Utility in Mumbai to initiate Smart metering for its consumers with more than 7000 smart meters installation already so far for its customers.

Promoting energy savings and displacing emissions



Pioneered this concept for

Maharashtra, enabling customers to source 100% RE power at marginal additional tariff of ₹0.66/kWh on regular tariff

Green Energy certificates to customers to support Net Zero effort

Clean Energy Incubation Centre

Joint initiative of Tata Power, Tata **Trusts & Gol**

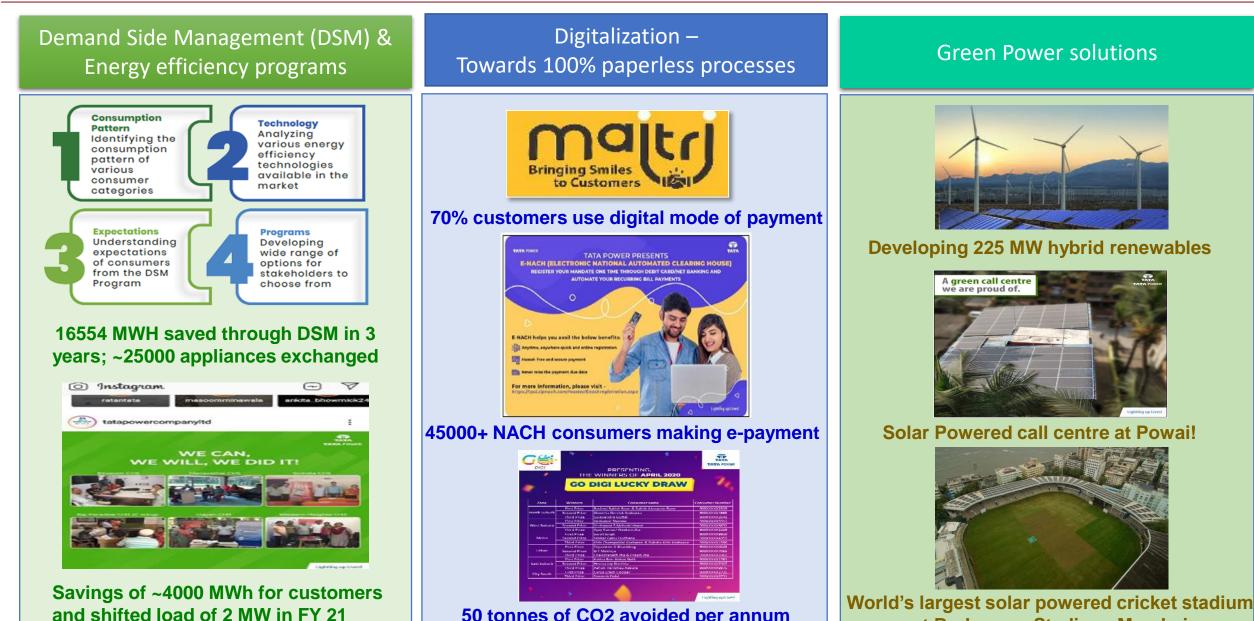


India's first-of-its kind Clean Energy lab for start-ups, entrepreneurs and innovators offering complete "lab to market" incubation support to clean energy enterprises Net-Zero Framework Assessment by

RISE for avoiding emissions by 2030

Driving customer centric climate initiatives





50 tonnes of CO2 avoided per annum

19

at Brabourne Stadium, Mumbai

Ecosystem Conservation efforts



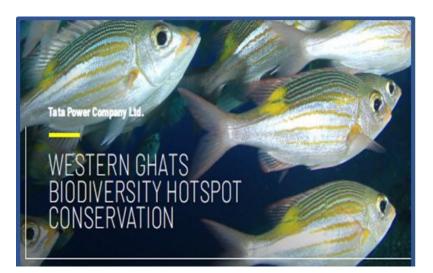
TREE MITTRA: Large scale afforestation drive Western Ghats Biodiversity Hotspot Conservation

Grassland Ecosystem Conservation





Over 3.5 Million trees planted till date mitigating ~70k tCO2e/annum. Indigenous species selected with MoEFCC to preserve ecosystems & improve survival rate. e-Platform under development to enable pledging for tree plantation during COVID19



- 50 years of Mahseer Conservation efforts
- 300 Fishery Scientists Trained
- 5 Endemic and endangered species of Orchids selected for multiplication
- 5 National Workshops held for Knowledge Exchange





- Impact of grassland on physical parameters affecting solar generation
- Assessment of seasonal biodiversity (Flora & Fauna)
- Replicability across growing solar footprint
- Identification of IUCN critically endangered and endangered species and conservation efforts

Celebrating 50 years of Mahseer conservation

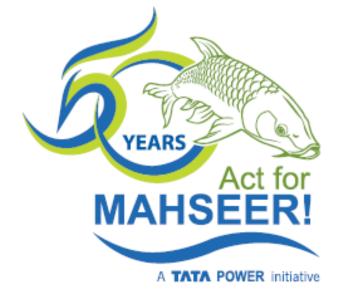


Tata Power is probably the only company that has helped a fish species bounce back from extinction threats through judicious conservation efforts for 5 decades. Bluefinned mahseer is no more under the endangered IUCN red list category.

Tor khudree, Black Mahseer

Assessment by: de Alwis Goonatilake, S., Fernado, M. & Kotagama, O.





Social Impact envisaged



Impact **30** million lives

- 1. Access to Govt. Schemes coverage of **60% HHs** of addressable population in target regions
- 2. Train **10,000 Trainers/Community Leaders** to deliver blended learning through Govt. schools/panchayats
- 3. Benefit **4 Lakh+ youth –** directly & indirectly



- 1. Build capacities of **25,000 SHGs** & co-develop 10 unique Entrepreneurship sustainable/ recycled products, services
 - 2. Facilitate scalability & regular business pipeline for SHGs



Education &

Employability

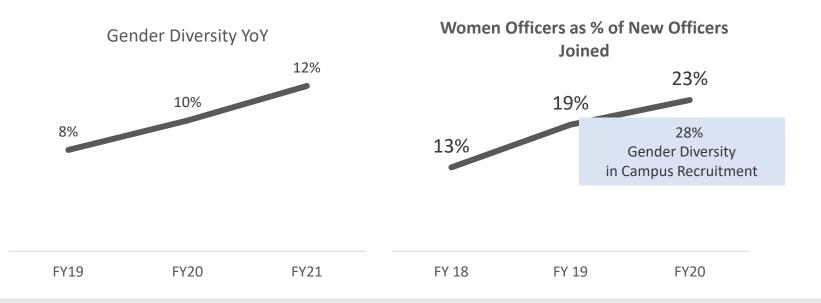
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Empowerment

- **1. Tata Affirmative Action** focus (SC, ST, differently abled, other disadvantaged groups – 30% within total outreach)
- 2. Gender diversity & Inclusion
 - 3. 1 lakh+ volunteering hours p.a. across stakeholder groups
- 4. Safety as a core value

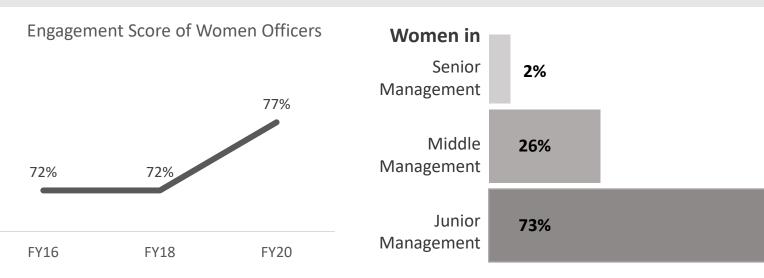
Promoting Gender Diversity at Tata Power





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Tata Power FY25 outlook: Improve overall gender diversity ratio to 18%



Enabling Framework

• Policies

- Special sabbatical, Extended maternity leave, Adoption, Surrogacy leave
- Flexible timings post maternity
- Performance rating protection during maternity •
- Childcare facilities: Creche & Nanny
- Spouse & Ward Recruitment Policy

Development Programs ٠

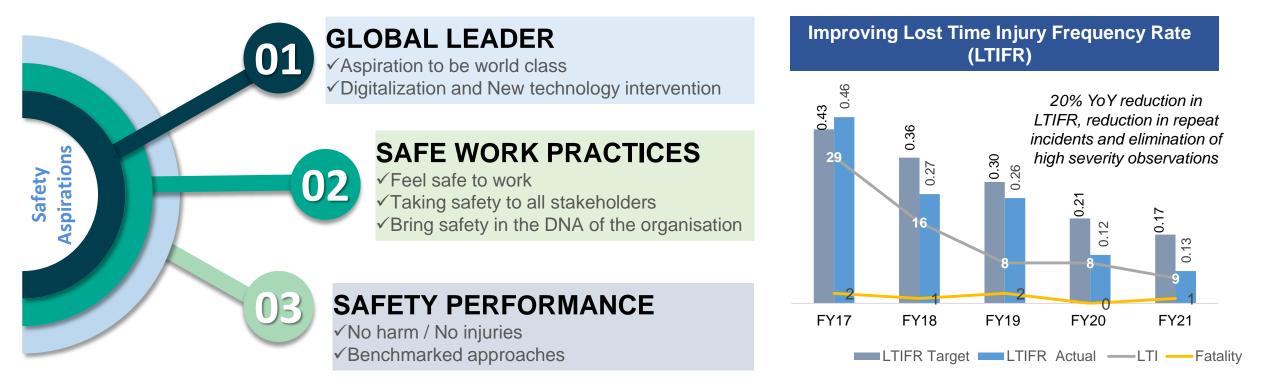
- Women's Mentoring Program •
- **Returning Mother's Coaching Program**
- Tata group programs for women in middle and senior management
- Tata SCIP (Second Career Innings Program)

Safety & Care •

- Special travel provisions for women employees
- Self-defence programs •
- Sensitization sessions on POSH
- Gift hampers to celebrate motherhood



Safety Aspiration: To be a leader in Safe Work Practices in Global Power and Energy Business



"Safety is a core value over which no business objective can have higher priority"

Robust Governance Structure in



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

Best in class risk management process





ISO 22301:2012- Tata Power has been awarded ISO 22301:2012 for Societal Security and Business Continuity Management System from 2015 till date from British Standards Institution





Thank You!

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