

CII 25th National Award For Excellence in Energy Management 2024



Phase 1 & 2, Global City, Bengaluru

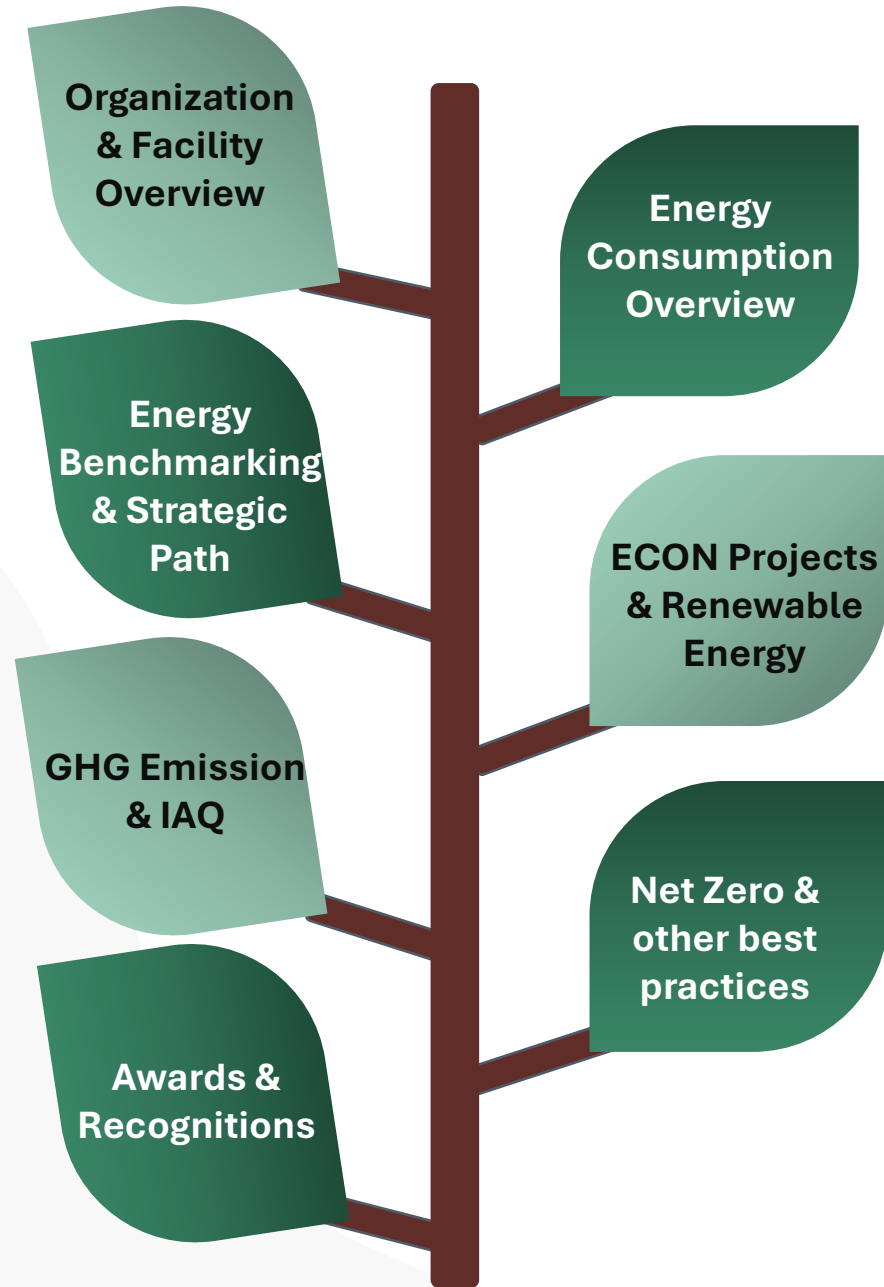
Dhananjaya Papanna (DJ)
Principal Director & Global Head –
Workplace Compliance, Resilience, EHS, 'E'SG & BCM

Pradip Pawar
Senior Manager & Lead – Workplace Resilience, EHS, 'E'SG

Kishore Kumar J
Senior Specialist



Presentation Outline



Organization Overview

From Action to Transformation Snapshot for Financial Year (FY) 2023-24

People

Talent Pool:
81,650

Women In Talent Pool:
30.69%

New Hires:
15,593

Learning Hours:
43,66,971

CSR Spend:
INR 807 million

CSR Threshold Limit:
INR 806 million

CSR Beneficiaries:
598,698

Trees Planted:
3.8 million

Planet

GHG Emissions:
65,264 tCO2e

Energy Consumption:
1,98,654 GJ

Renewable Energy:
44.34%

Waste Recycled:
92.14%

Water:
333.724 ML

Environmental Capex Spend:
0.04%

Green Buildings in India:
100% certified and applied
for LEED IGBC Platinum

Partners and Suppliers:
12.64% of total procurement
spend was on diverse suppliers

Profit

Revenue:
INR 3,55,170 Million
(up by 7.04% in constant currency)

Profit:
INR 45,846 Million
(Growth by 4%)

EBII:
15.7%

Order Book Value:
USD 5.6 Billion
(15.7% Growth over FY2023)

Active Clients:
738

Customer Satisfaction Rating:
(On a scale of 1-7): **5.85**

\$5 Million+ Clients:
153

Global Presence:
38 countries - 117 offices
(Headquarters - Mumbai, India)

PURPOSE

LTIMindtree's purpose is to 'Solve to unleash possibilities', which corresponds to using our expertise to solve complex problems and helping the clients and communities reach their full potential








VISION

LTIMindtree's vision is to 'Enable businesses and communities to flourish in a hyperconnected world'. This encapsulates that we are determined to help our clients and communities succeed in a world where technology is rapidly advancing and changing the way people connect and do business.

On a transformative mission of a global tech that gives everyone a chance to grow, by creating harmony between nature, humans, and corporate operations, LTIMindtree is a conscientious, futuristic, and sustainable organization, committed to an inclusive vision and positive value creation for stakeholders.


Facility Overview




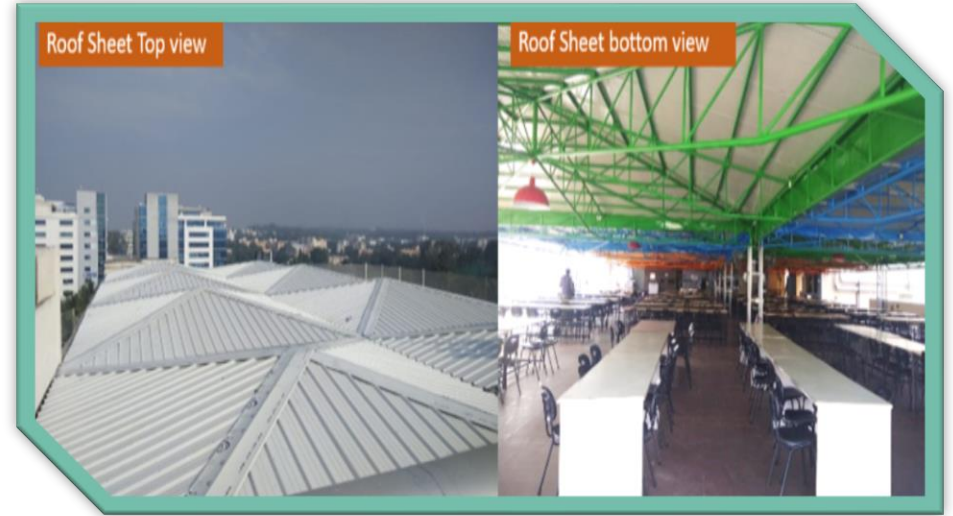
	Nature of Business	IT & ITES
	Year of Establishment	2009
	Seating Capacity	3137
	Rented/Owned	Rented
	Operation Support	24 * 7
	ISO Certifications	14K, 45K, 27K, 31K, 22301, 9K
	ESG Frameworks	GRI, CDP, TNFD, TCFD, UNGC, SDG etc.


Passive Design Features of Building



 Micro-Climate (According to ECBC)
Temperate

 Building Orientation
North-South



 Built Up Area (m2)
39670

 Soft Green Area (m2)
11331

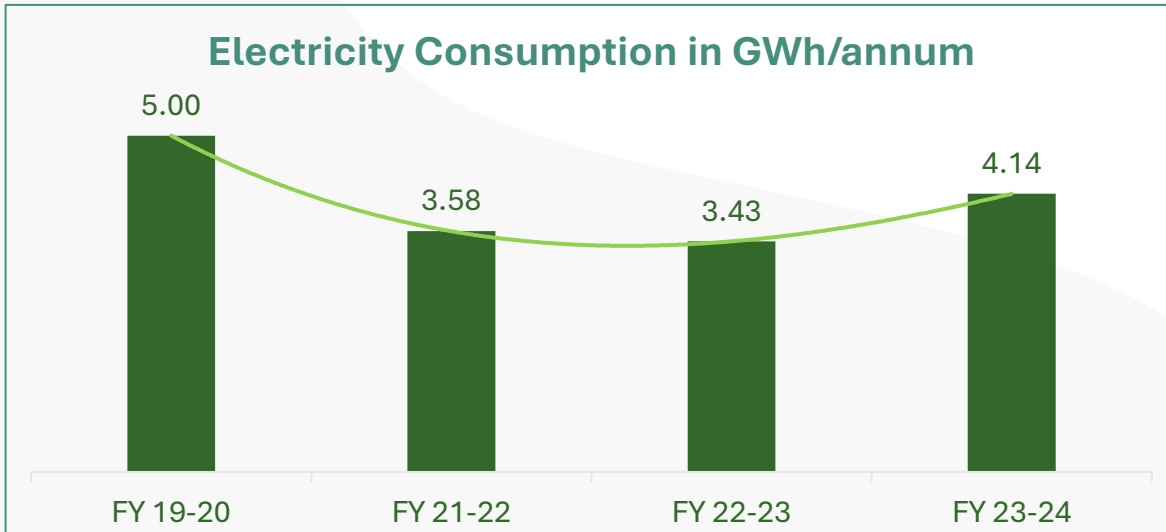


↑
A naturally ventilated cafeteria with PUF panels & weatherproof paints used for the roof which is leading to energy saving.

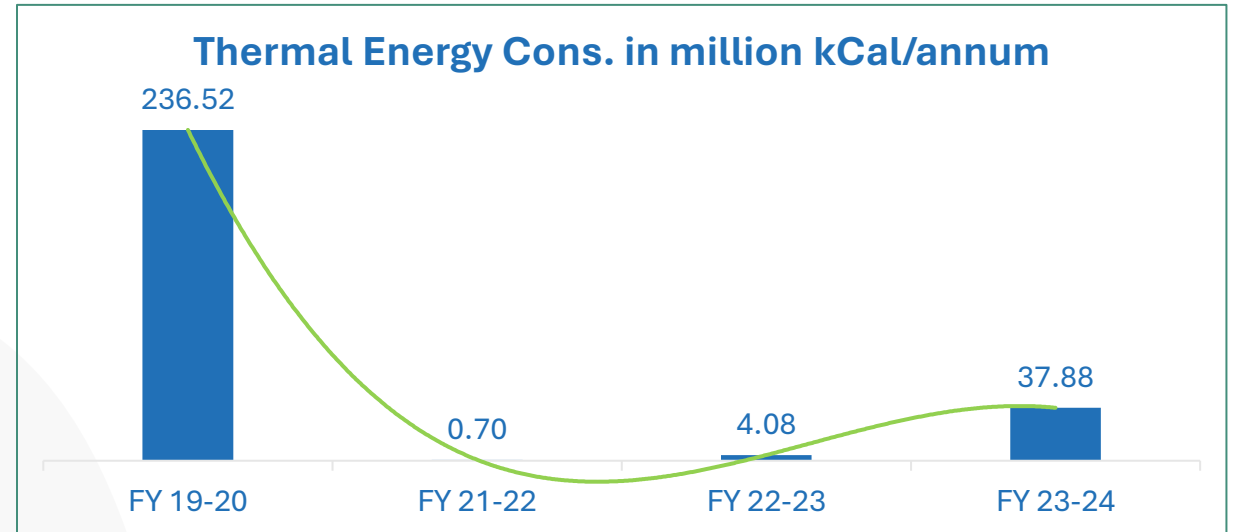
← Daylight inside the building

Energy Consumption Overview

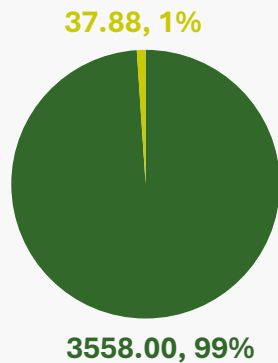
Electricity Consumption in GWh/annum



Thermal Energy Cons. in million kCal/annum



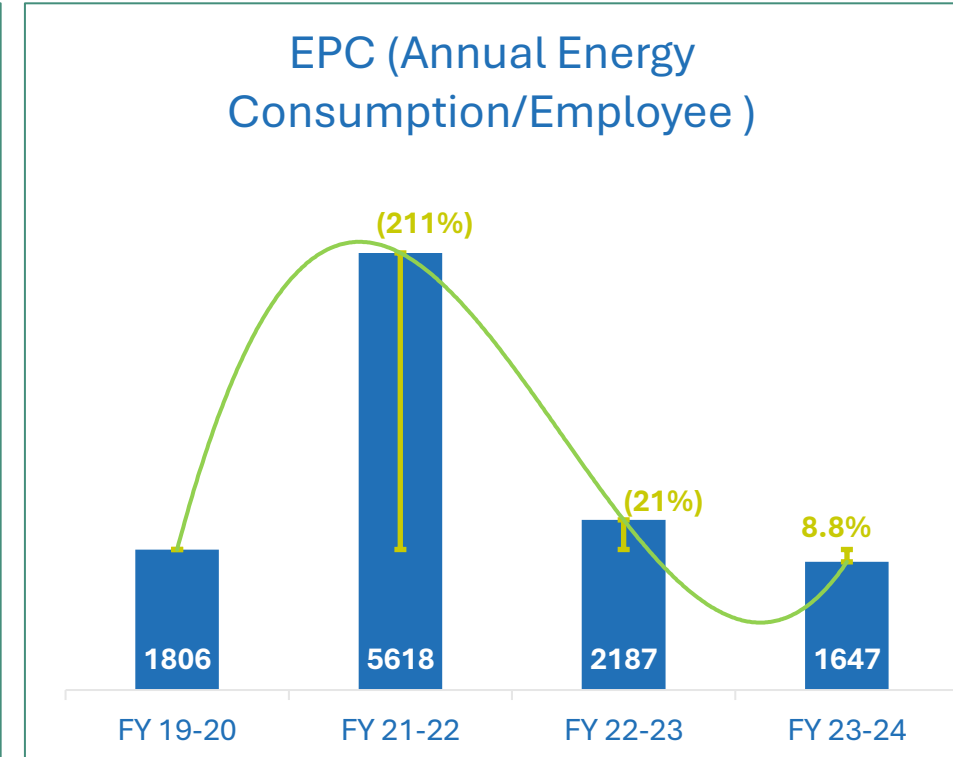
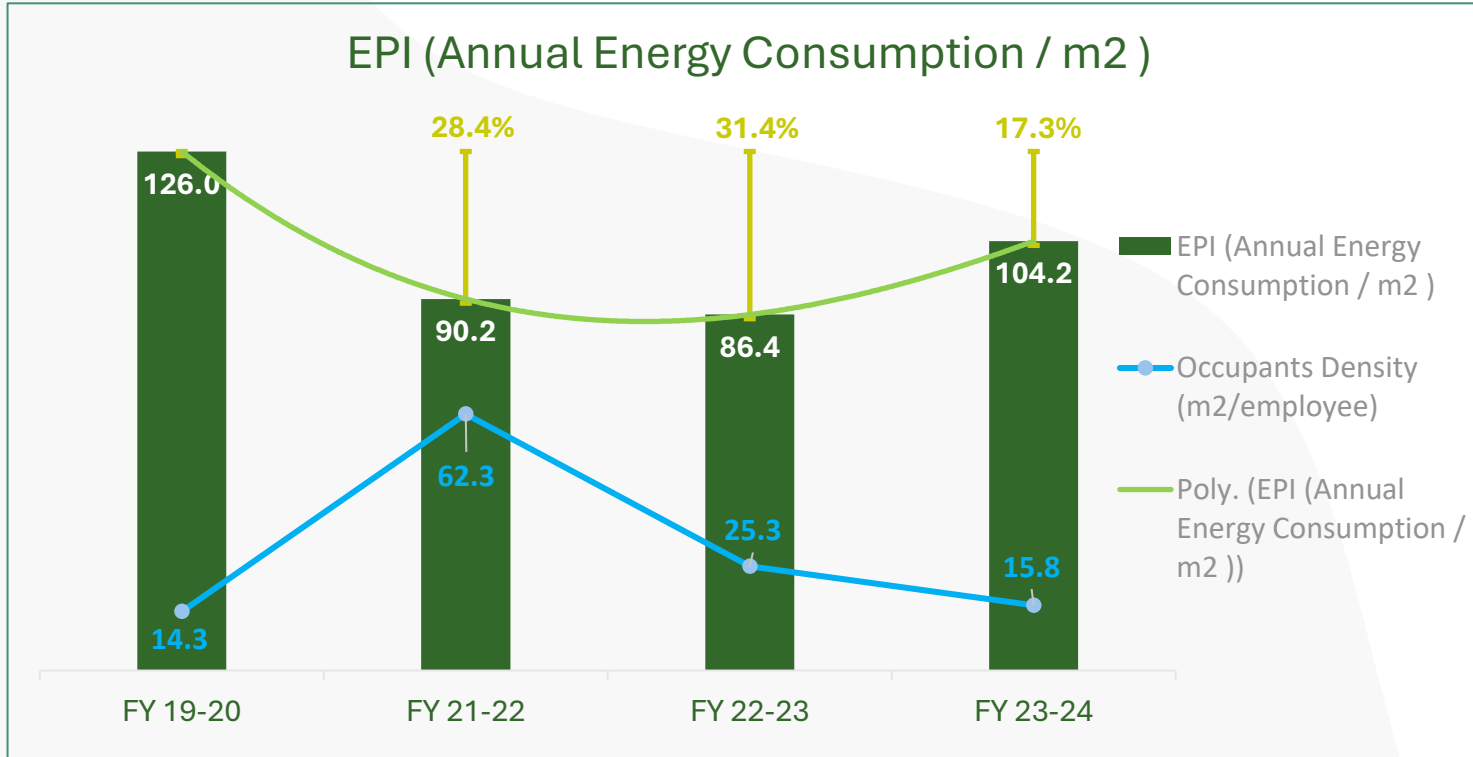
Thermal Energy Cons. in million kCal/annum



■ Electricity Consumption ■ Thermal Energy Consumption

- Thermal energy (LPG) consumption for FY 23-24 has increased compared to FY 21-22 and FY 22-23, primarily due to the re-expansion of cafeteria operations.
- Thermal energy (LPG) consumption for FY 23-24 has decreased compared to FY 19-20, primarily due to the electrification strategy, which involved switching to electrical-based cooking appliances.

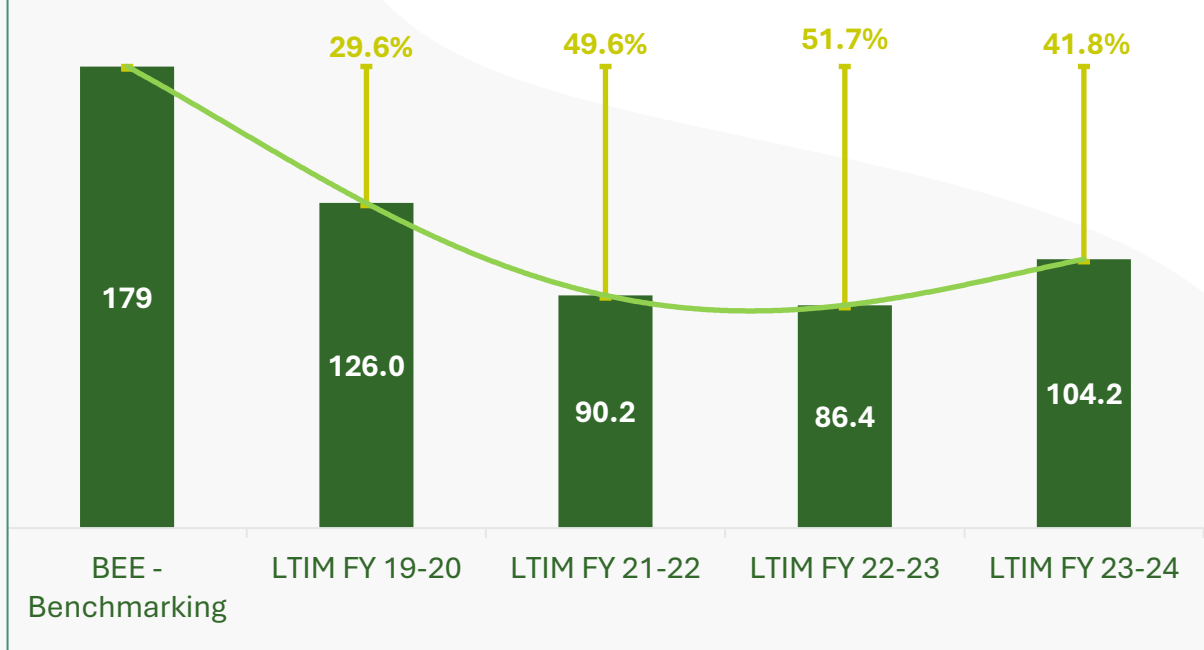
Specific Energy Consumption Trend



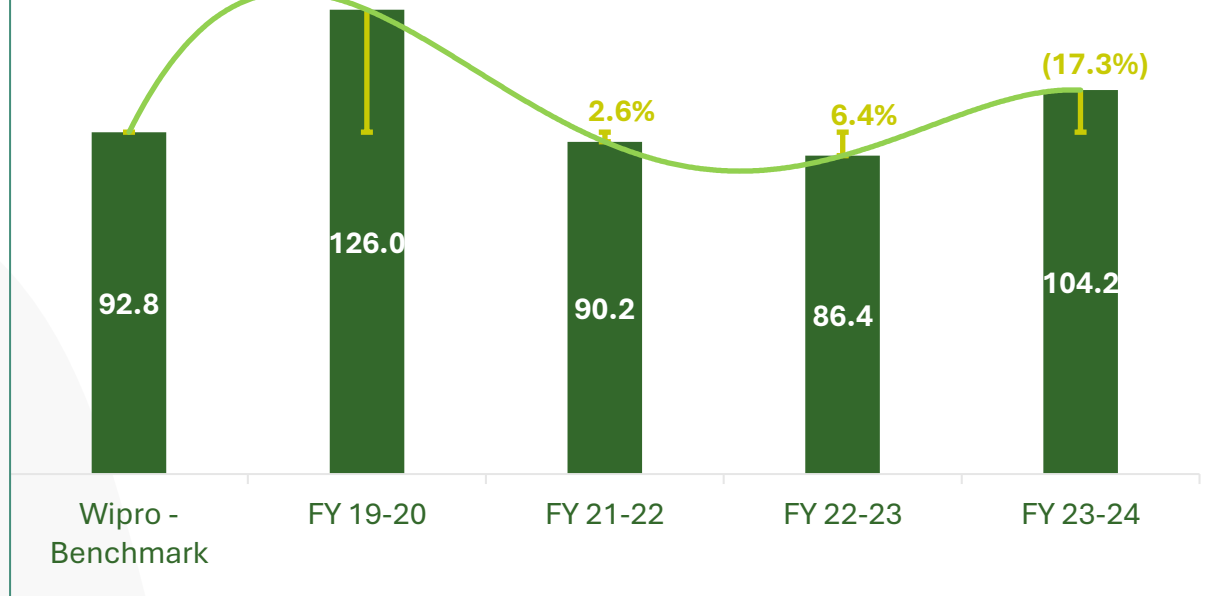
- Electricity consumption for FY 23-24 has increased compared to FY 21-22 and FY 22-23, primarily due to a rise in occupant footfall.
- EPC (Annual Energy Consumption / Employee) for FY 23-24 has decreased compared to FY 19-20, primarily due to effective implementation of various energy efficiency & conservation measures at our facility.

Benchmarking & ECON Projects planned for FY 24-25

Comparison with BEE Benchmark



Comparison with Competitors (Wipro) Benchmark



ECON Projects planned for FY 24-25

Title of Project	Annual Electrical Saving (Million kWh)	Investment (Rs in Million)	Investment Made (Rs million)
• Replacement of Low Side HVAC equipment	0.04	2.47	61
• Installation of EC fan to the AHU	0.12	9.16	49
• Replacement of Existing LPG based cooking appliance with Electrical Energy star rated cooking appliances	Carbon Emission Reduction Program		

Energy Management Strategic Path



Energy Management Plan(EMP)

- Site-specific **Energy Management Plan(EMP) & Energy Benchmarking by setting SMART Objectives & Targets** approved by MR & Energy Manager
- **Centralized energy management planner & tracker and PowerBI Dashboard**



Energy Team

- **Energy Team** is formed under EHS & ESG lead
- **ISO : 14K & 51K certified EHS leads**



Accountability of Energy Team

- Tracking activities under EMP
- Identifying improvement opportunities & Implementations as per EMPs
- **Periodic Analysis, Evaluation of performance & Review with Leaders**
- Completion of **Energy Audits ASDM**

Quarterly Training

IFM Certified Energy Manager to strengthen in house team instead of depending on OEM / AMC vendors in PPM and evaluation side. Periodic review and training for in house technical team to sustain further energy saving

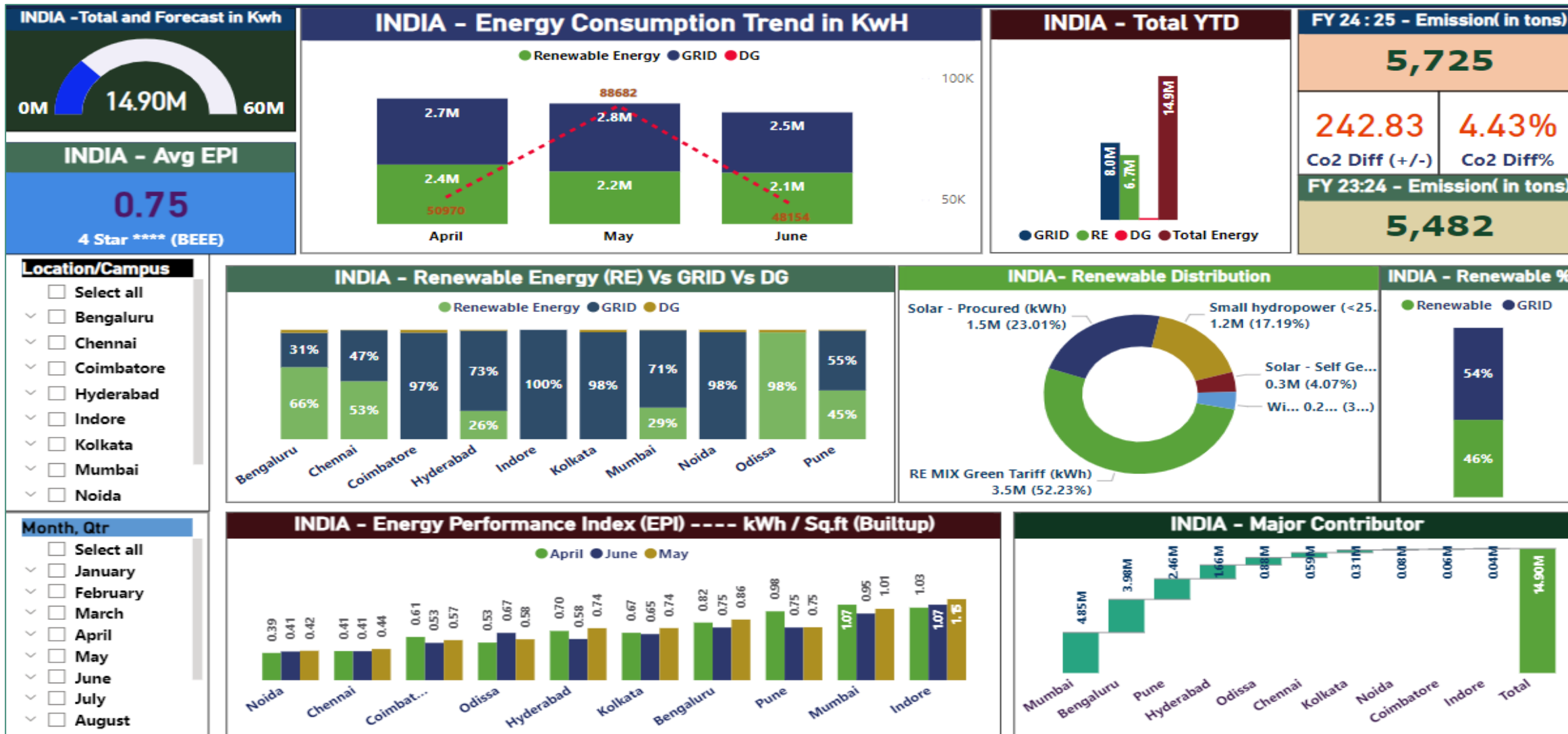
Analysis

Purchased specialized instruments /equipment's and training given to site engineers and Technicians to measure, analyze / service the equipment's (IR thermal imager, Manifold gauge, Pressure washer, Power analyzer)

Evaluate efficiency

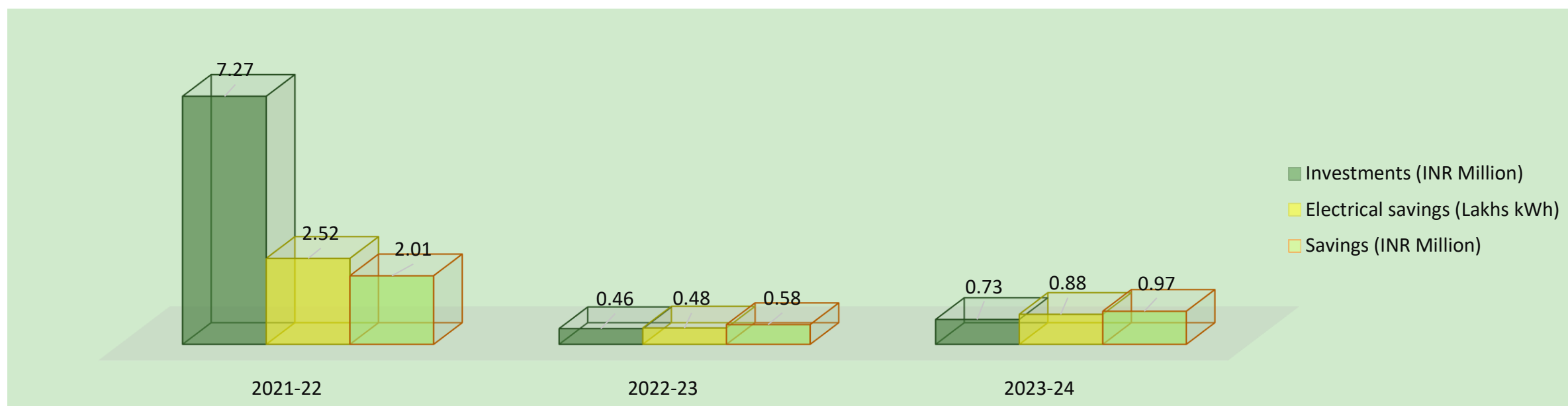
User Friendly Templates prepared and trained to site engineers and Technicians to measure the Parameters (Suction & discharge pressure , CFM. Temperature Energy reading etc.) to enter the measured in values in the template automatically evaluate of efficiency.

Snapshot of Energy Dashboard (PowerBI)

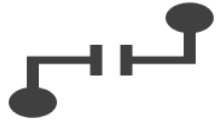


Energy Saving Projects – Summary

Year	No of Energy saving projects	Investments (INR Million)	Electrical savings (Lakhs kWh)	Savings (INR Million)	Impact on SEC (Electrical)
2021-22	3	7.27	2.52	2.01	9%
2022-23	1	0.46	0.48	0.58	3%
2023-24	2	0.73	0.88	0.97	5%
Total	6	8.46	3.88	3.56	17%



Innovative Project FY 2023-24 : Installation of TVSS filters



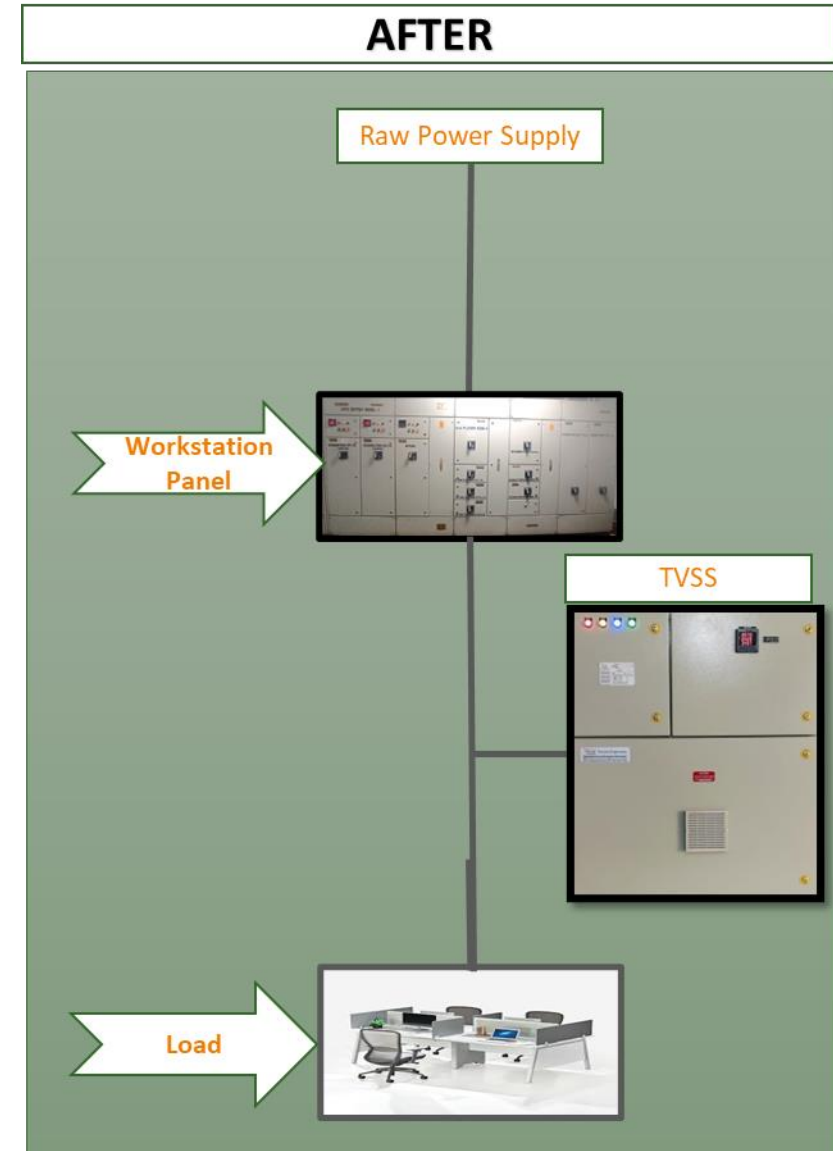
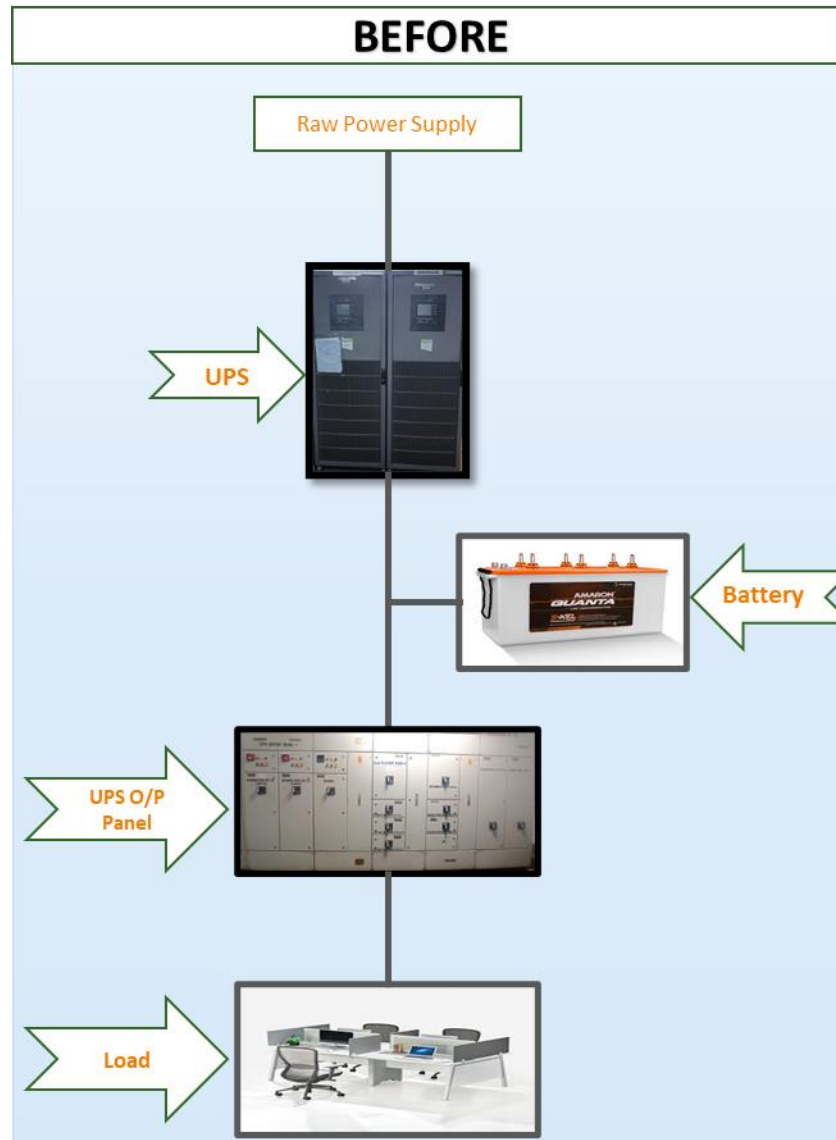
- 50A/Ph,100A/neutral TVSS filter Installed to mitigate voltage transients, triplen harmonics add high neutral current.



- TVSS filter capability on handling voltage transients are limited to milli second transients.

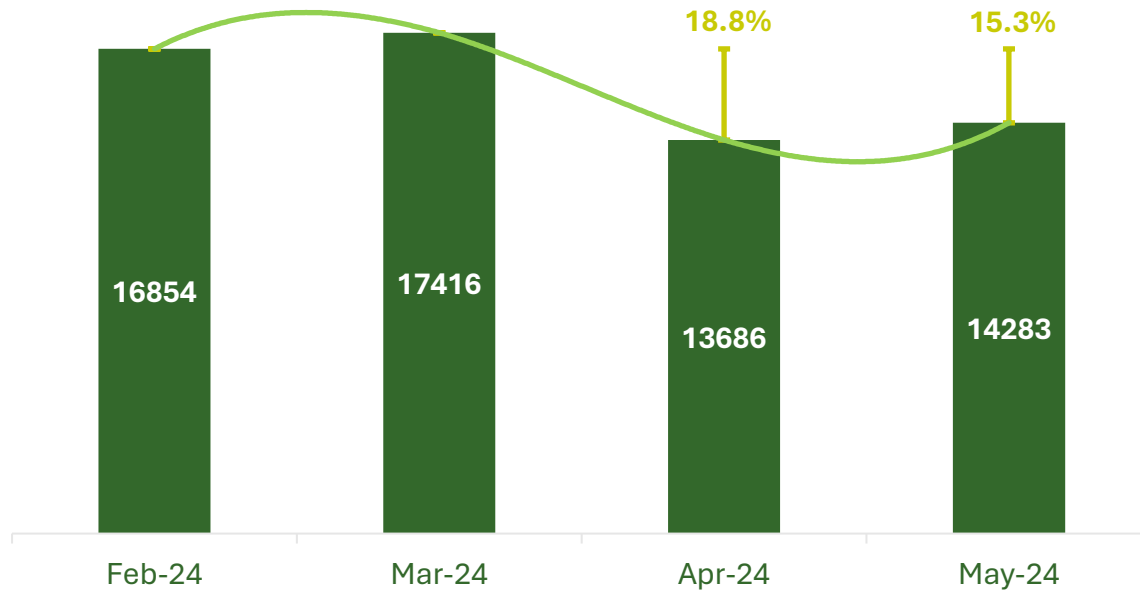


- TVSS filters removes and absorbs triple harmonics, thus relieving the laptops and sensitive electronics from aging factors.



Innovative Project FY 2023-24: Installation of TVSS filters

Energy Efficiency Improvements by installing TVSS filters



- Average units saved per month - 3963 KWH
- Energy reduction through HVAC / Month : 58.22 KWH

Project Features



Energy Conservation



Battery Waste Reduction



Cost Saving through reduction in energy cost & avoidance of purchasing of batteries



ROI of 10 months



Saving Floor Space

ENCON 2023-24

Title of Project	Annual Electrical Saving (KWH) *	Annual Electrical Cost Saving (Rs million)	Total Annual Savings (Rs million)	Investment Made (Rs million)
Low side HVAC unit replacement	40176	0.442	0.4419	0.23347



Project Features				
Energy Saving	Cost Saving	Compliant with R22-phase out requirement	Reduction in Carbon Emission	ROI of 45 Months

ENCON 2022-23

Title of Project	Annual Electrical Saving (KWH) *	Annual Electrical Cost Saving (Rs million)	Total Annual Savings (Rs million)	Investment Made (Rs million)
Energy efficient & High-speed Hand Dryers	48768	0.585216	0.585216	0.4648



Project Features				
Reduction in noise level & drying time	Reduction in Waste Generation	Reduction in Carbon Emission	ROI of 10 Months	Reduction in Health Risk

ENCON 2021-22

Title of Project	Annual Electrical Saving (KWH) *	Annual Electrical Cost Saving (Rs million)	Total Annual Savings (Rs million)	Investment Made (Rs million)	ROI in Months
Installation of energy efficient UPS (P2)	158385	1.26	1.27	3.8	36
Installation of energy efficient PAC (P2)	74321	0.59	0.59	3.4	69
Installation of Variable Frequency Drives (VFD)	19710	0.16	0.16	0.12	10



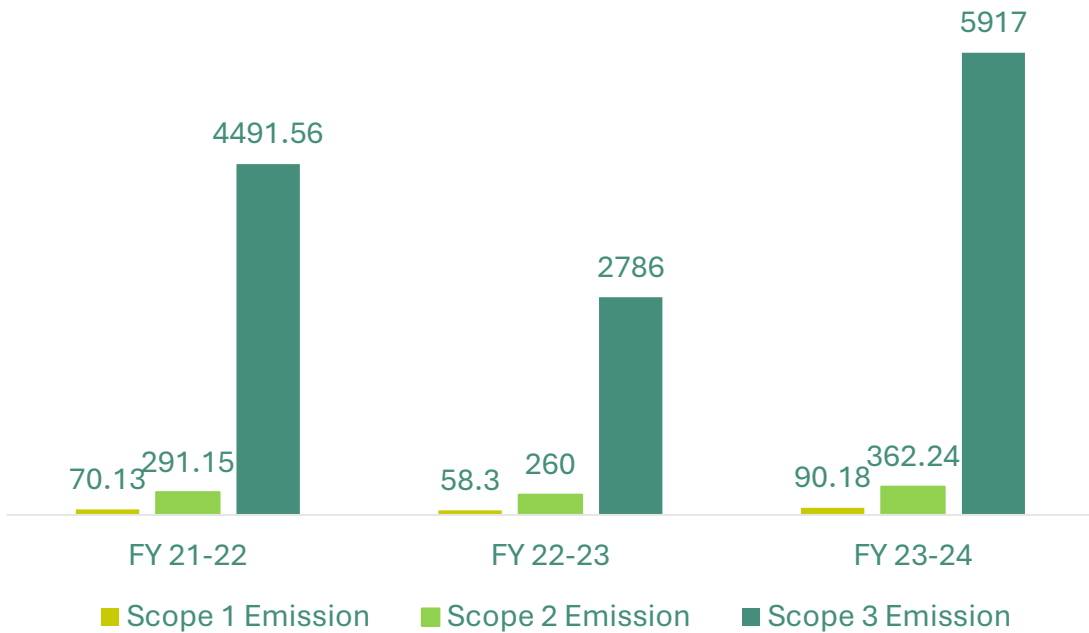
Utilization of Renewable Energy Sources-2021-22 to 2023-24

Year	Generated / Procured	Low Carbon Technology type	Sourcing Method	Utilization Units In Lakh kWh	% of Overall Electrical Energy
2021-22	Procured	Hydro Power	Physical PPA	33.6	94%
2022-23	Procured	Hydro Power	Physical PPA	32.6	95%
2023-24	Procured	Hydro Power	Physical PPA	37.5	91%

- we are committed to optimize energy usage throughout our business by conserving energy, increasing our energy efficiency, energy conservation, increasing use of renewable energy and reduction in carbon emissions
- We are striding on our clean energy approach with renewable energy component in the total energy mix stands healthy and robust at 91% for FY 2023-24
- Installation of Rooftop solar power plant is planned in FY 2024-25.

GHG Emissions

GHG Emission Details



Scope Of Emissions

Scope 1	<ul style="list-style-type: none"> GHS emission, Direct emission from absolute Fossil Fuel (LPG) Consumption from organization's owned- or controlled sources (Cafeteria) GHG emissions, Fugitive emissions related to operation of HVAC, Fire Extinguishers
Scope 2	<ul style="list-style-type: none"> GHS Emission, Indirect Emission from Consumption of Purchased Electricity
Scope 3	<ul style="list-style-type: none"> GHG Emission, Other Indirect emissions covers Fuel and Energy related activities, Waste generated in operations, Employee commuting, Freight and Business travel for the reporting year.

GHG Emissions Intensity tons CO2e/ annum/employee

FY 21-22	6.543
FY 22-23	1.489
FY 23-24	0.839

Our Vision – Net Zero Road Map

Organization's Commitment for Resource Conservation & Achieving Carbon Neutrality

Scale up of Green tech offerings to clients



2030



85%+ Renewable Energy for our internal operations

Water Positive and ~100 water recycling



2030



100% waste recycling

75% reduction in Scope 1&2 and 40% reduction in scope 3



2030



Achieve carbon neutrality



Actions that Protect our Planet

Emission Reduction Strategy



- LTIMindtree has publicly disclosed its ESG vision, commitments, and targets through annual reports, sustainability reports, and other channels.
- LTIMindtree has aligned its ESG commitments and goals to India's NDC and the Paris Climate Treaty, as a transitional approach to a 1.5°C, nature positive world.
- We are committed to integrating sustainability into all aspects of our operations, with our ESG vision integral to its success.
- Our policies and initiatives are aimed at reducing environmental risks and are part of our core sustainability approach that adheres to global standards and frameworks, including the UNGC, the SDGs, the GRI, the CDP, the NGBRC, and TNFD.

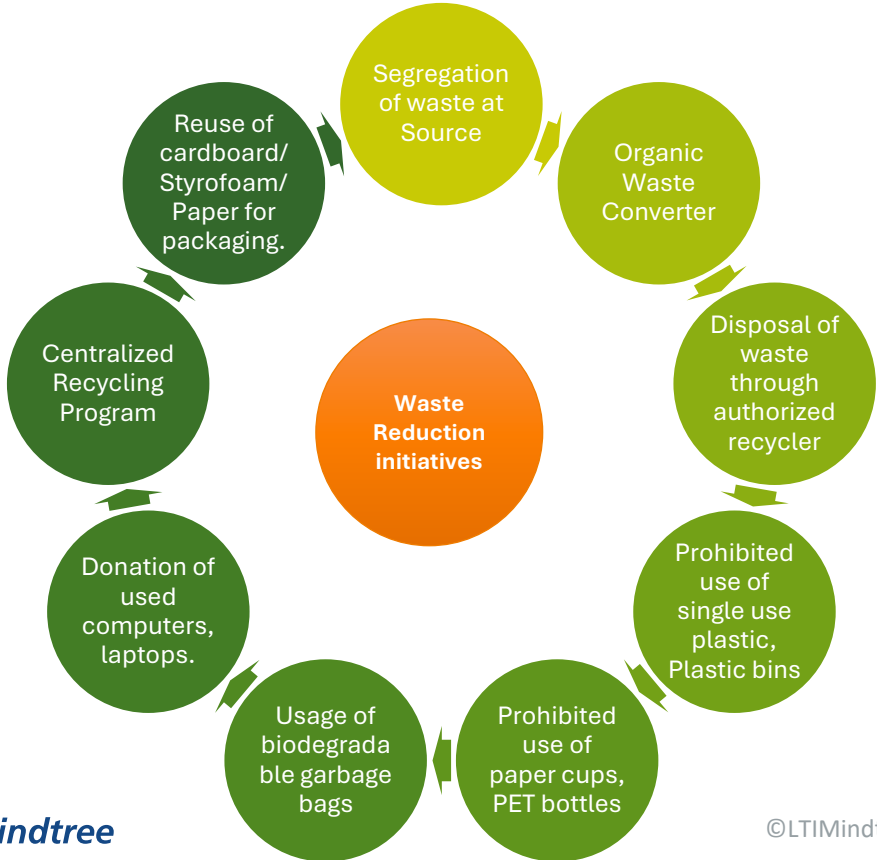
Indoor Air Quality Monitoring & Control

- The fresh air supply within our offices has been designed to meet ASHRAE's requirement.
- We are monitoring the quality of indoor air by checking various parameters such as PM10, PM2.5, Nox, Sox, O2, CO2, CO, VOC, TVC, NH3, O3, Yeast and mold count, CH2O, Ozone, H2S etc.
- The frequency of Indoor Air Quality Monitoring through external authorized partner is once in a month.
- We are implementing the following strategy to control and enhance indoor air quality in the workplace
 - Installation of Oxygen emitting indoor plants.
 - Smoking inside the Campus is strictly Prohibited
 - Restriction on use of Hazardous substances.
 - Installed the MERV13 filters & UV film for Workstation AHUs.
 - Printers are installed in closed & separate rooms.
 - Use of low Volatile Organic Compound (VOC) paints.
 - Using a vacuum with a HEPA filters.



Waste Management

Year*	Waste generated (tons/annum) *	Recycle in %
2021-22	61.1198	90.5%
2022-23	54.0003	92.5%
2023-24	58.6405	99.5%



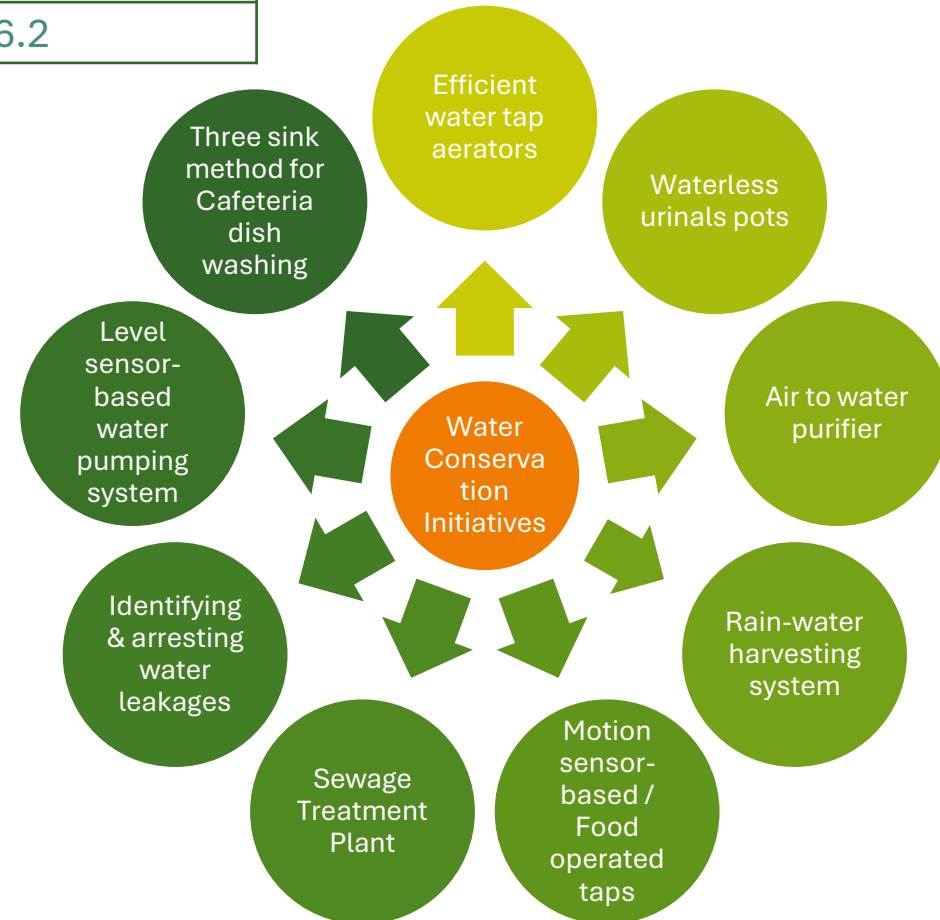
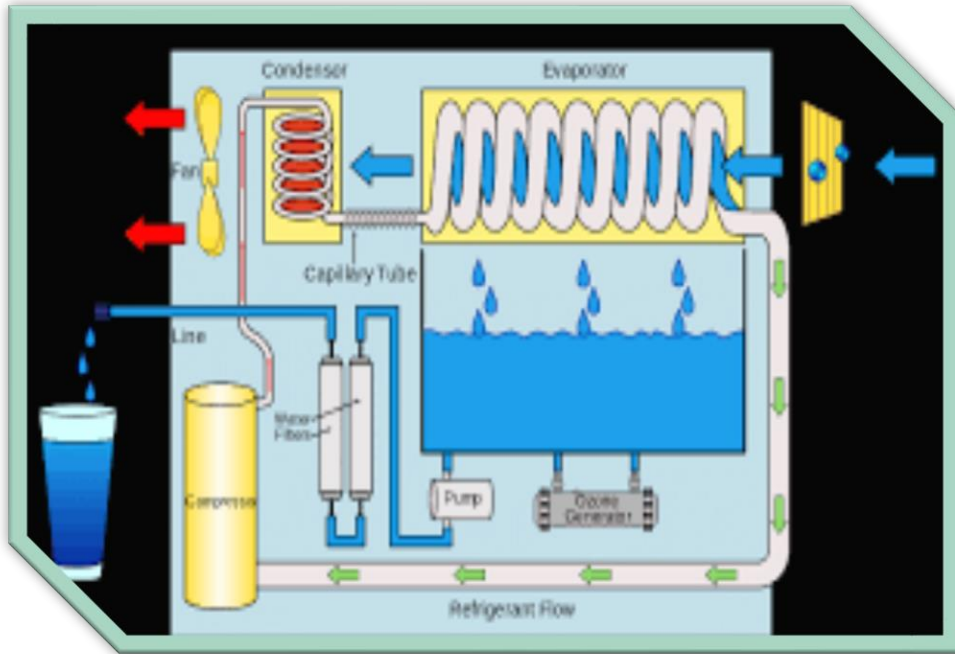
ZWL certification ZWL @ 99.5% waste diversion



Water Management

Year*	Water Per Capita (KL/Employee/Annum)
2021-22	9.6
2022-23	7.2
2023-24	6.2

Air O Water Installation



Employee Engagement



Candle Distribution on Earth Hour



Energy Conservation Ladder Game



Saplings Distribution from Inhouse Nursery



Seedball Distribution on WED



Pencil Sketching Competition on WED



Employee Awareness through Posters & Screensavers



Live Webinars



Tree Plantation Drives

Awards & Recognitions



Golden Peacock Award for Sustainability for the year 2023 by Institute of Directors, India



Received Workplace Sustainability Excellence Award for Bangalore Global Campus from iNFHRA



LTIMindtree is the only Indian company to be listed as Early Adopter from among 320 institutions.



Achieved above industry average scoring of 63rd percentile



CII National Award for Excellence in Energy Management 2022



iNFHRA Award for Excellence in EHS innovations, Bengaluru 2024



iNFHRA Award for Excellence in Energy Management, Bengaluru 2024



NSCI Safety Awards 2022

Thank You !

Pradip Pawar

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