



GAIL (India) Limited

Advancing Sustainable Transformation



GAIL Advances
NET ZERO
Target to **2035**

Sustainability Glimpses

2024

New India New Energy



GAIL (India) Limited

Advancing Sustainable Transformation

Sustainability Glimpses

2023-24

New India New Energy

Advancing Sustainable Transformation theme suitably reflects GAIL's efforts to contribute towards Sustainable Development Goals and align with India's Nationally Determined Contributions (NDC).

Natural Gas is the cleanest fossil fuel and has low carbon intensity compared to other fuels like Petrol, Diesel, Coal etc. Therefore, switching over to Natural Gas as a fuel by other industries helps in reducing GHG emissions. Hence, GAIL's operations help to improve the overall environment. India has targeted to increase Natural gas share in energy mix from 6.7% currently to 15% by the year 2030.

GAIL undertook laying of ~ 2,300 Km of new Natural Gas Pipelines during the year taking the total network 16,243 Km of Pipeline network spread across the length and breadth of the country to improve the distribution infrastructure. GAIL with its 15 City Gas Distribution (CGD) entities set-up 201 CNG stations in 72 Geographical Areas (GAs) across 17 states to advance the energy transition and also lowering pollution, thereby benefiting the citizens at large. It is also equally important to source additional natural gas to fulfil the increased requirement. During the year, GAIL signed long-term LNG purchase agreements with ADNOC Gas and Vitol Asia Pte Ltd for purchase of approx. 1.5 MMTPA LNG for a period of 10 years, commencing from 2026.

Further, to increase the availability of domestic gas, GAIL will be setting up 26 Compressed BioGas plants across India. This will not only improve the availability of Natural Gas but also help in supporting farmers to increase their income. GAIL shall also be investing approx. INR. 600 Crores in a CBG Joint Venture with TruAlt Bioenergy to produce 33 million kg of CBG per annum by setting up 10 plants. GAIL also set-up India's first small-scale LNG unit at Vijapur, M.P. to provide natural gas in regions devoid of pipeline connectivity. Many other Projects are being implemented that shall help to increase the availability of Natural Gas and other cleaner fuels like Hydrogen thereby helping the Government to achieve its Net Zero target.





MISSION

Enhancing quality of life through clean energy and beyond

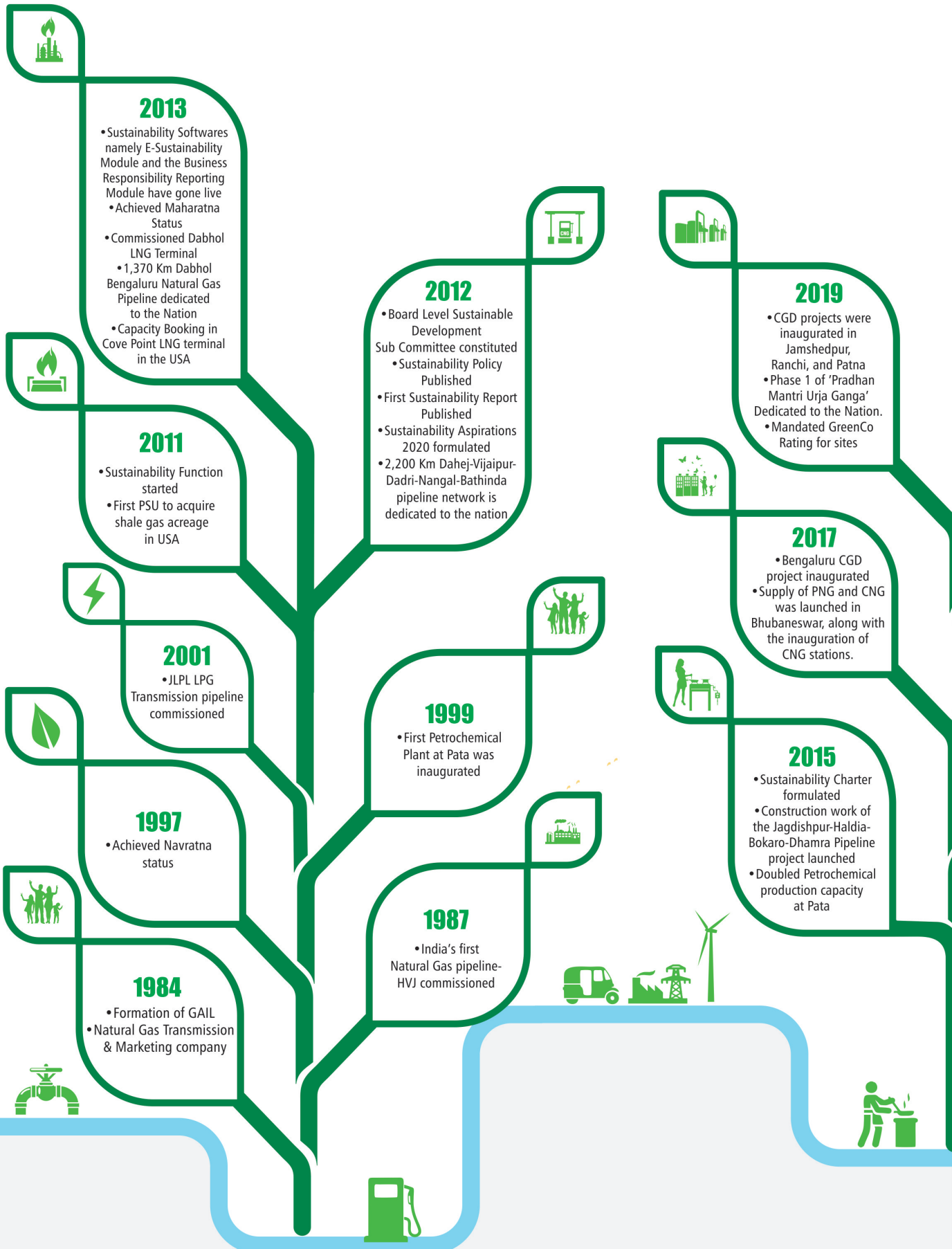


VISION

Be the leader in natural gas value chain and beyond, with a global presence.
Creating value for stakeholders with environmental responsibility

Beyond the Horizon:

GAIL's Journey to a Brighter Future



2021

- Kochi-Mangaluru and Dobhi-Durgapur Natural Gas Pipelines were inaugurated

2018

- Commencement of work for Talcher Fertilizers Limited (TFL)
- Varanasi CGD project inaugurated
- India's first LNG cargo from USA received in GAIL's first charter hired vessel
- First LNG cargo under long term contract with Russia received
- CNG Stations inaugurated in Cuttack.

2016

- Mandatory Sustainability Projects for sites
- Brahmaputra Cracker & Polymer Ltd. Petrochemical Complex is dedicated to the Nation

2023

- Acquisition of JBF Petrochemicals Limited
- Gas Transmission and Gas Marketing through a gas network of around 15,600 km
- GAIL Net Zero 2024 Action Plan Formulated

2022

- Dedication of CNG boats at Varanasi
- Bokaro-Angul Natural Gas Pipeline was inaugurated
- Net Zero 2040 Target framed

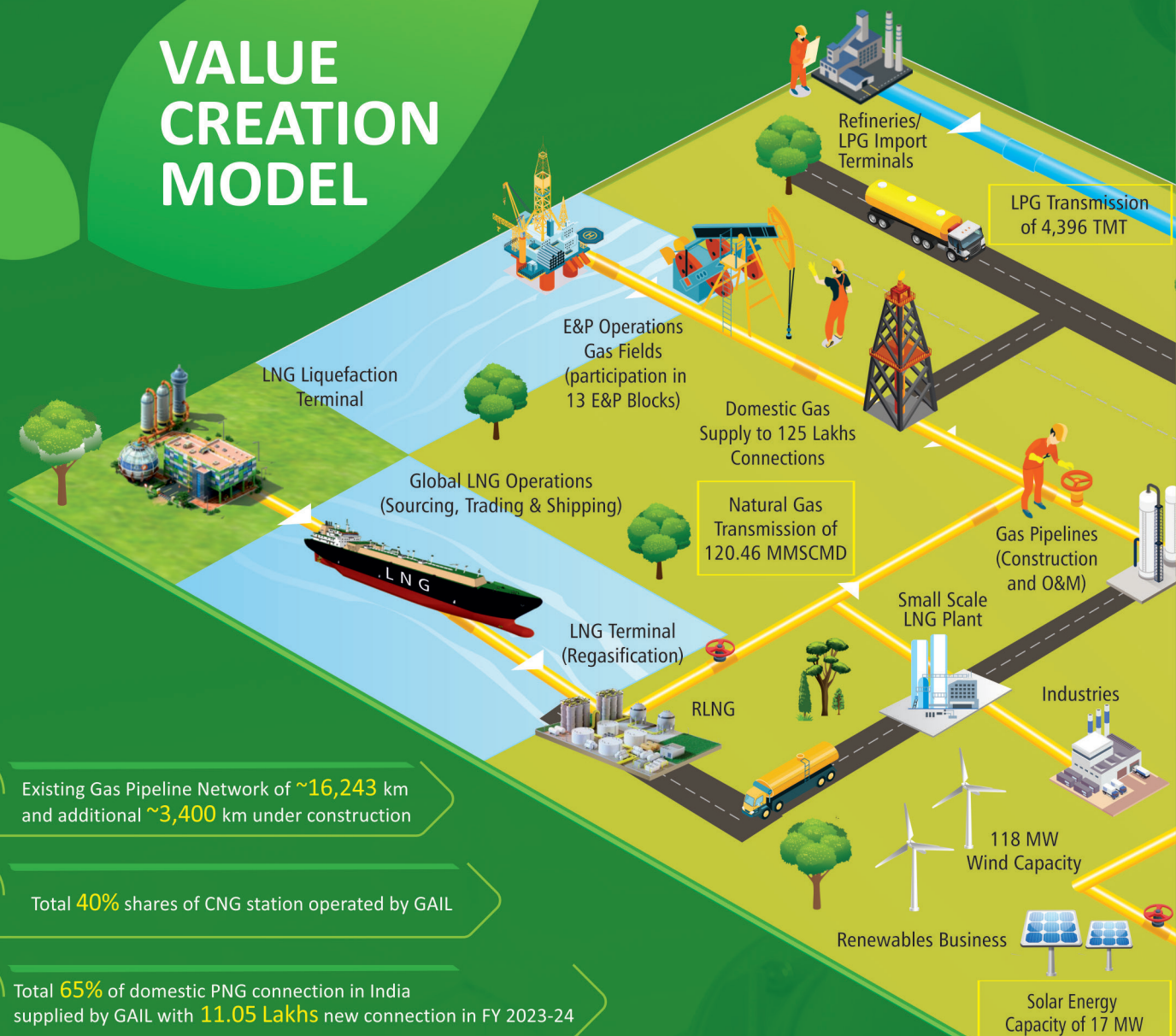
2024

- Setup of Retail LNG vertical
- 10 MW PEM Electrolyzer-based Green H2 plant commissioned
- 1.5 MMTPA LNG Long Term deal signed
- Dedication of Dharma-Angul Pipeline, Barauni-Guwahati Pipeline, Vijaipur-Auriaya Pipeline
- Reaching a Market capitalization of more than INR 1 trillion
- Commissioned India's 1st SSLNG skid
- Revised Net Zero target from 2040 to 2035



GAIL's Supply Chain

VALUE CREATION MODEL



Existing Gas Pipeline Network of **~16,243 km** and additional **~3,400 km** under construction

Total **40%** shares of CNG station operated by GAIL

Total **65%** of domestic PNG connection in India supplied by GAIL with **11.05 Lakhs** new connection in FY 2023-24

2nd largest player in Polyethylene portfolio

Authorized to operate in **72 CGD Geographic Areas (GAs)** throughout India

15% domestic Market share in Petrochemicals

GAIL's target to support **400** CBG plants

GAIL share in country's Natural Gas Transmission is **~65%**

GAIL Supplied around **40%** of the total Natural Gas sold to Fertilizer Sector

Supplies **11%** of total Natural Gas sold to Power Sector

Commissioned PEM Electrolyser for producing **4.3 TPD** Green Hydrogen

E&P operations Gas Fields (participation in **13** E&P Blocks)



GAIL (India) Limited



Domestic Gas supply to **125** Lakhs connection

LPG Transmission of **4,396** TMT

118 MW Wind Capacity

Solar Energy capacity of **17** MW

LPG Pipelines **~2,040** km

Gas Processing Plants **(5 Numbers)**

Gas Marketing of **98** MMSCMD

LHC sales of **998** TMT

Petrochemical sales of **787** TMT

Message from CMD



Dear Stakeholders,

The theme of this year's report, "Advancing Sustainable Transformation," reflects our dedication to integrating sustainability into every facet of our operations. At GAIL, we believe that actual progress is measured not only by financial performance but also by our ability to create a positive impact on the environment and society. In the same spirit "GAIL Board has accorded approval to advance its Net Zero target for 100 % reduction in Scope 1 and Scope 2 GHG emissions by five years, from the year 2040 to year 2035. This shall help in the improvement of GAIL's Environmental, Social, and Governance (ESG) Rating which will result in improving company's credit worthiness and help raise finances. It shall also make GAIL future-ready in the era of upcoming Carbon Markets and Carbon Tax to be introduced in the country. The decision follows an extensive study undertaken by GAIL to enhance its sustainability goals and align with India's broader Net Zero commitments. GAIL plans to achieve this ambitious goal through a strategic approach involving the Electrification of Natural Gas based equipment, Renewable Energy, Battery Energy Storage Systems (BESS), Compressed Biogas (CBG), Energy Efficiency, Green Hydrogen, CO2 Valorization and Afforestation.

At GAIL, we are deeply committed to positive climate action. Natural gas is a clean fuel and being the largest Natural Gas Company, GAIL is helping industries lower their GHG emissions by switching over to natural gas as a fuel. Hence, GAIL's operations help improve the overall environment.

In line with the Government of India's 'National Hydrogen Energy Mission', GAIL has commissioned a 10 MW Green Hydrogen Electrolyzer unit with a production capacity of 4.3 TPD in Vijapur, using Proton Exchange Membrane (PEM) technology.

I am happy to announce that GAIL has been included in the FTSE4Good Index Series as a part of the London Stock Exchange Group Sustainability Index once again for 2024, which demonstrates strong Environmental, Social

and Governance (ESG) practices in the Oil Gas Sector. Additionally, GAIL has achieved a significant milestone by being upgraded from "C" to "B" in the CDP Global ESG 2023 Rating under the Climate Change category.

GAIL's endeavours are directed toward minimizing our ecological footprint. Implementing the Zero Liquid Discharge Project at GAIL Pata, with an investment of over INR 500 Crore, exhibits our steadfast commitment to enhancing water sustainability for the prosperity of forthcoming generations.

In conclusion, our actions and achievements show GAIL's commitment to advancing sustainable transformation. From our renewable energy projects to our efforts in reducing carbon emissions and engaging with communities, we are dedicated to creating a positive impact on the environment and society. As we continue this journey, we remain steadfast in our mission to drive sustainable growth and lead by example in the transition to a greener future. Together, let us continue to build a more sustainable tomorrow for generations to come.

GAIL as part of its societal responsibilities, is committed to the upliftment of the social and economic conditions of designated Aspirational districts. We have implemented strategic CSR projects in 23 aspirational districts with an expenditure of INR 175.71 Crore as part of CSR activities during the year.

I believe that this report serves to be an interesting read and provides you with a glimpse of our efforts taken in FY 2023-24. I look forward to your valuable comments and feedback on our work to further fuel a sustainable future.

Sandeep Kumar Gupta
Chairman & Managing Director

GAIL Highlights

Business Growth Highlights



Shri Hardeep Singh Puri, Hon'ble Union Minister of Petroleum & Natural Gas dedicates to the nation 201 CNG stations across 17 states and India's first small-scale LNG unit



Shri Hardeep Singh Puri, Hon'ble Union Minister of Petroleum & Natural Gas, inaugurated a floating re-fuelling CNG station for boats at Ravidas Ghat, Varanasi



Inauguration of 10 MW Green Hydrogen Plant in Vijaipur by Shri Pankaj Jain, Secretary, Ministry of Petroleum and Natural Gas



Vitol and GAIL Sign Long Term LNG Supply Deal into India in the presence of Shri Sanjay Kumar, Director (Marketing), GAIL and Vitol CEO, Mr Russell Hardy



GAIL, ONGC and Shell Energy India signed a tripartite MoU to explore opportunities for the import of ethane and development of ethane evacuation infrastructure at Shell Energy Terminal, Hazira, in the presence of Shri Rajeev Kumar Singhal, Director (Business Development), GAIL



GAIL and ADNOC Gas Ink A Long-Term LNG Contract Fuelling India's Natural Gas Industry Growth in the Presence of Shri. Sandeep Kumar Gupta, CMD, GAIL

GAIL Greening Efforts

Symbolizing the company's dedication to fostering a greener future and reinforcing its commitment to sustainable development.



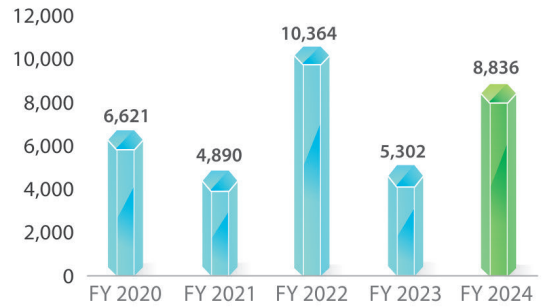
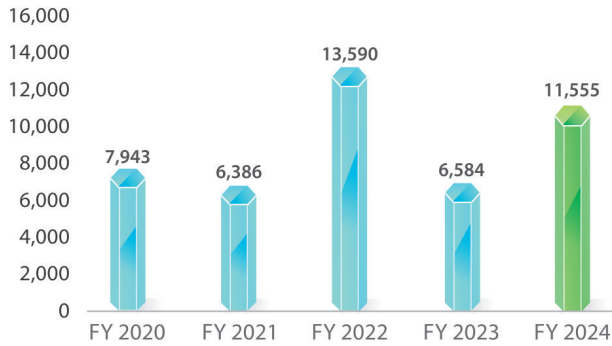
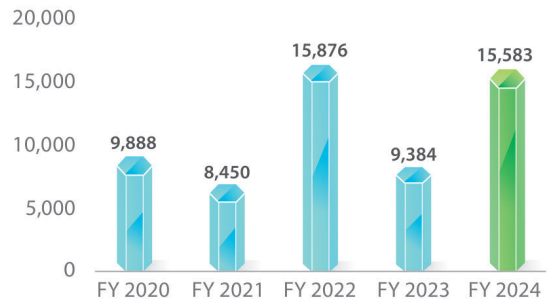
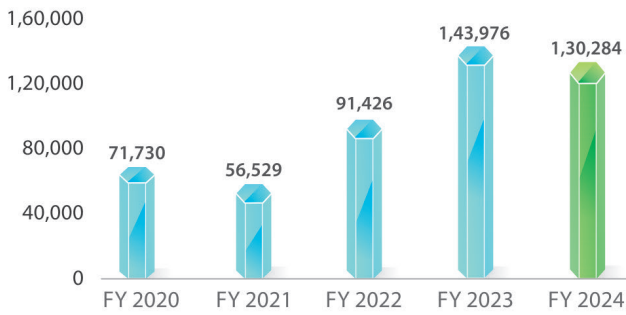
Shri Sandeep Kumar Gupta, CMD, GAIL, inaugurated the tree plantation at GAIL Jaipur



Shri Ayush Gupta, Director (HR), GAIL, participated in the tree plantation drive at GAIL Bengaluru, joined by Shri Sandeep Kumar Gupta, CMD, GAIL

Performance Highlights

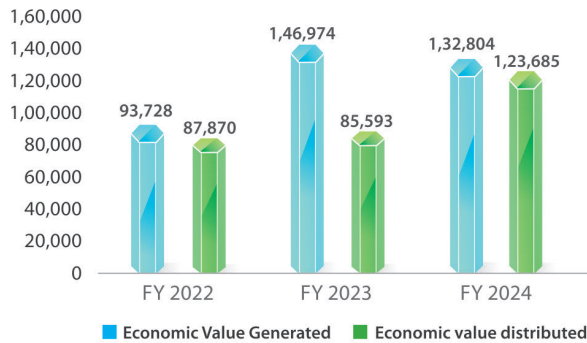
Financial performance Standalone



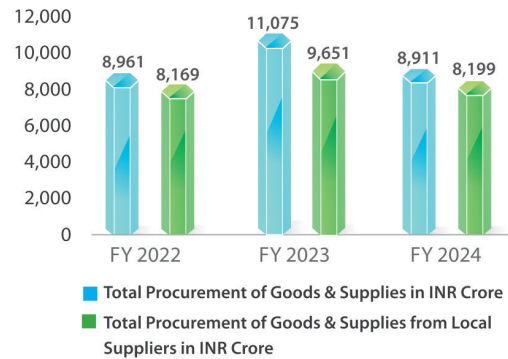
Economic, Environmental, Social and Governance Performance



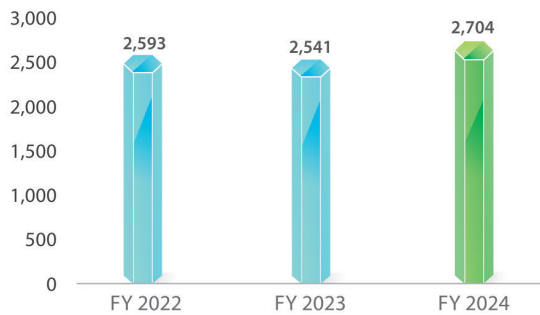
Economic Value Generated vs Distributed (INR Crores)



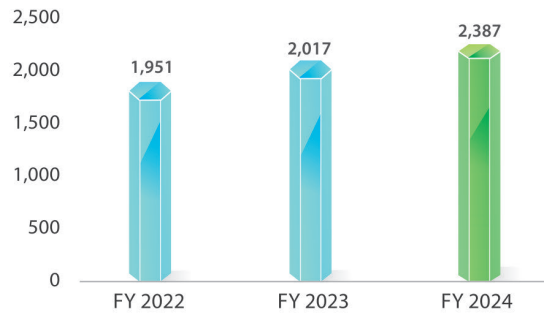
Procurement Highlights (INR Crores)



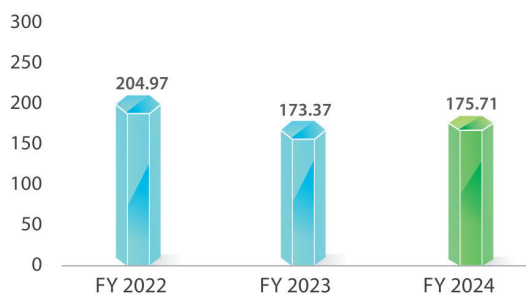
Procurement from Government eMarketplace (GeM) (INR Crores)



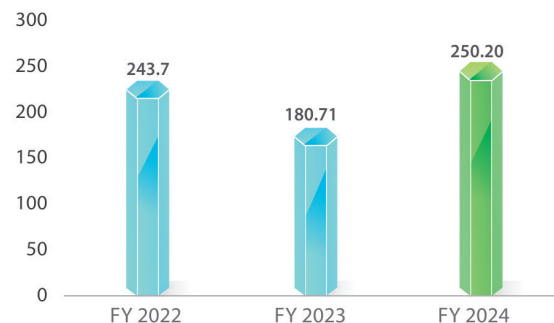
Employees Wages and Benefits (INR Crores)



CSR Expenditure (INR Crores)



R & D Expenditure (INR Crores)

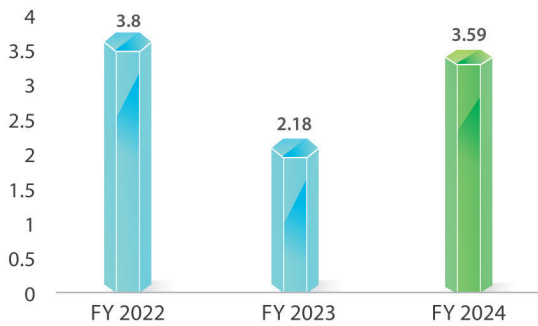


*The total CSR Expenditure for the FY 2023-24 is INR175.71 Crores i.e. 2.47% of the avg. net profit of the preceding three years after setting off the excess expenditure of previous financial years

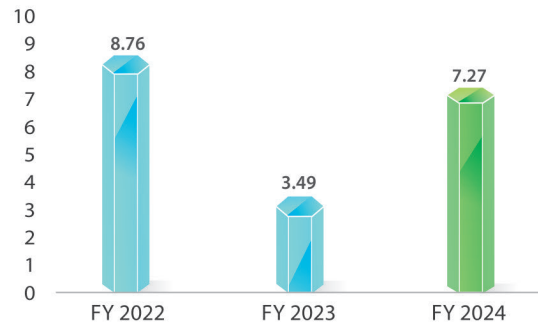
Economic, Environmental, Social and Governance Performance



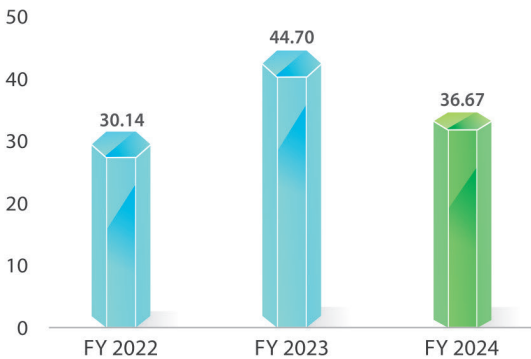
Value Added Per Employee (INR Crores)



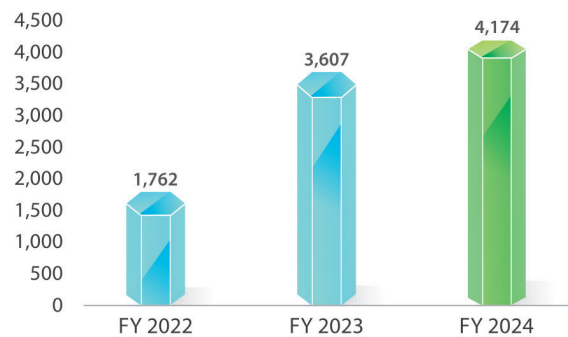
Human Capital Return on Investment (%)



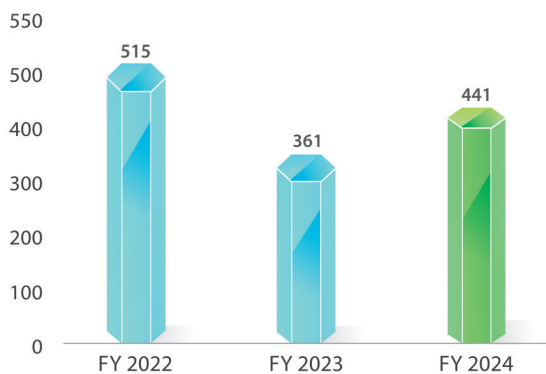
Total Environment Expenditure (INR Crores)



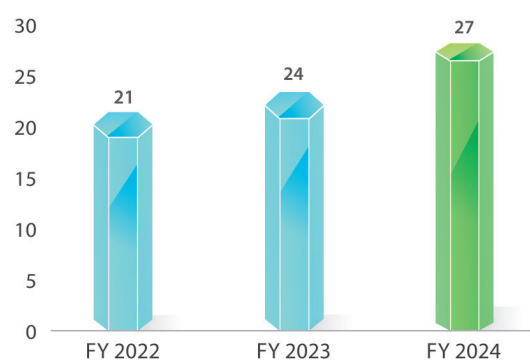
Cost of NG (Used as Fuel) (INR Crores)



Power Charges (INR Crores)

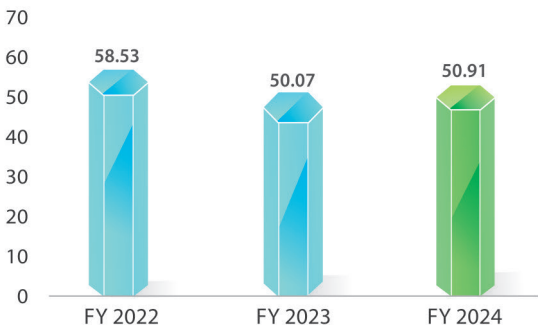


Water Charges (INR Crores)

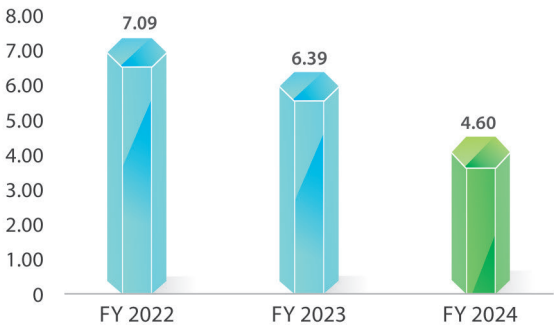


Economic, Environmental, Social and Governance Performance

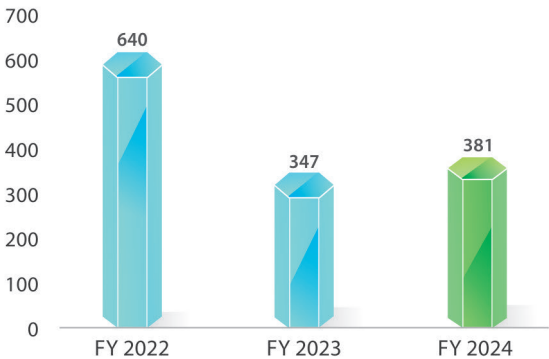
Energy Consumption (Million GJ)



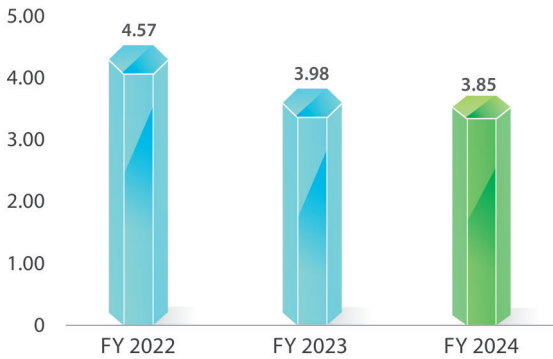
Energy Savings (Lakh GJ)



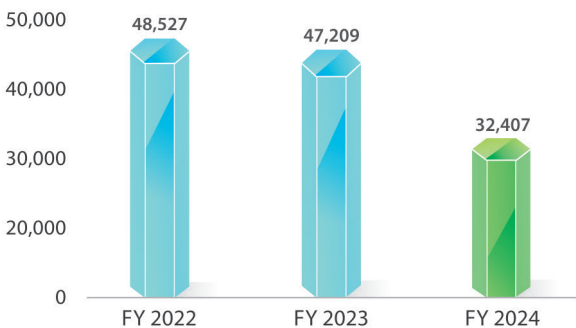
Energy Intensity (GJ/ INR Crores)



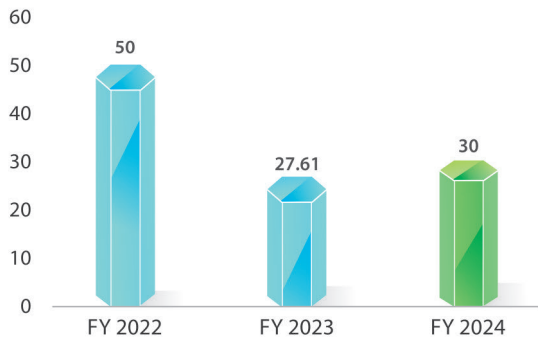
GHG Emissions (Scope 1+ Scope 2) (Million tCO2e)



GHG Savings (tCO2e)



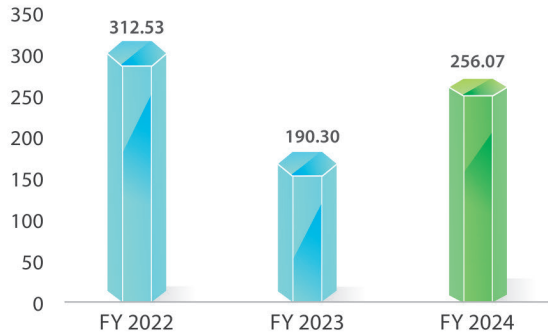
GHG Intensity (Scope 1+ Scope 2) wrt Turnover (tCO2e/INR Crores)



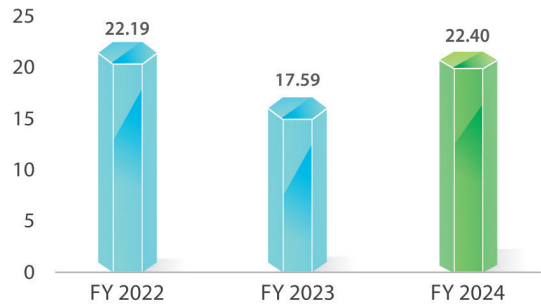
Economic, Environmental, Social and Governance Performance



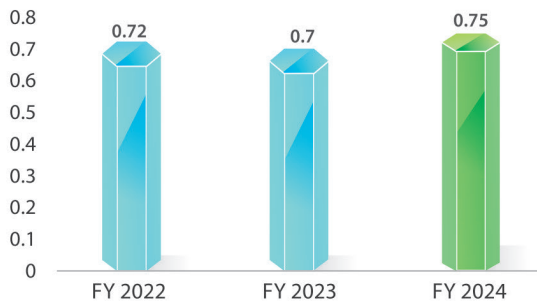
**GHG Intensity (Scope 1+2+3)
wrt Turnover (tCO₂e/INR Crores)**



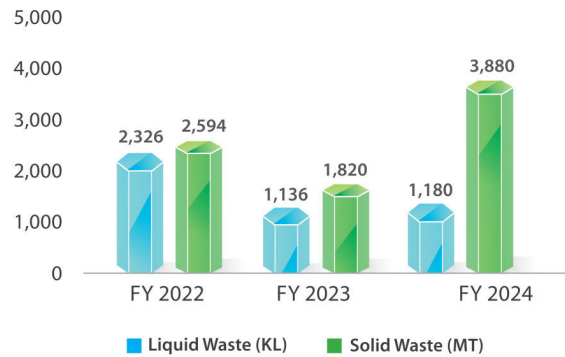
Water Consumption (Million m³)



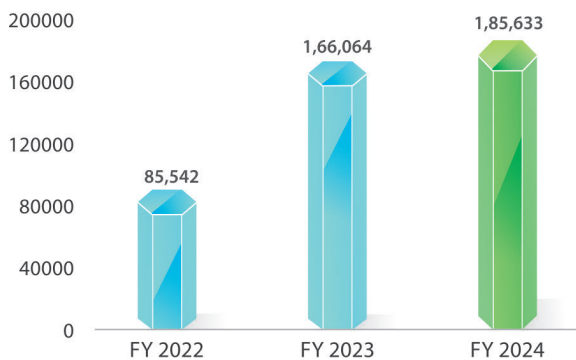
Water Recycled/Reused (Million m³)



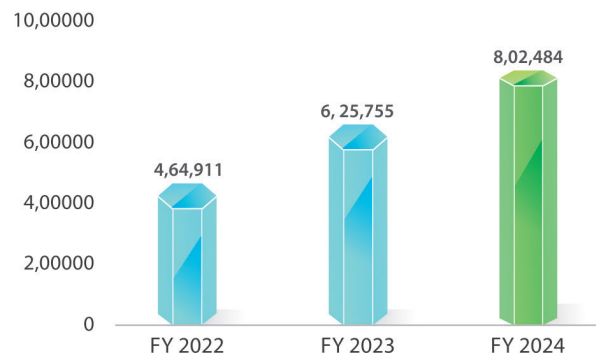
Waste Recycled (Hazardous & Non-Hazardous)



Tree Plantation (Numbers)



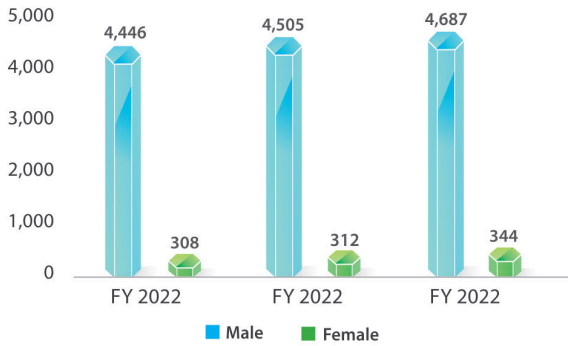
**Cumulative Numbers of tree Plantation
(Sites+Township) (Numbers)**



Economic, Environmental, Social and Governance Performance



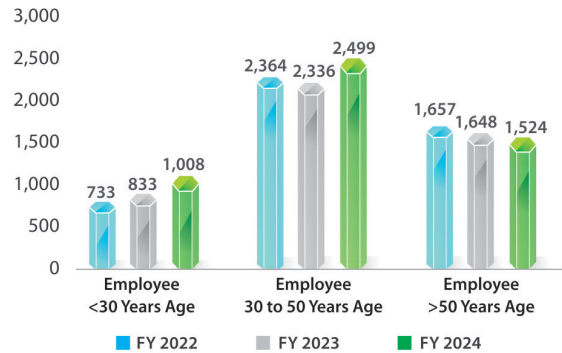
Permanent Employee Distribution (Numbers)*



* Excluding (07) Board of Directors



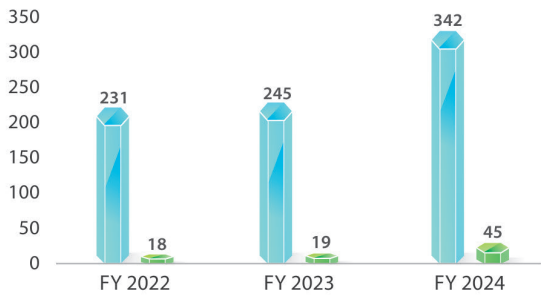
Permanent Employee Distribution (Age) (Numbers)*



* Excluding (07) Board of Directors



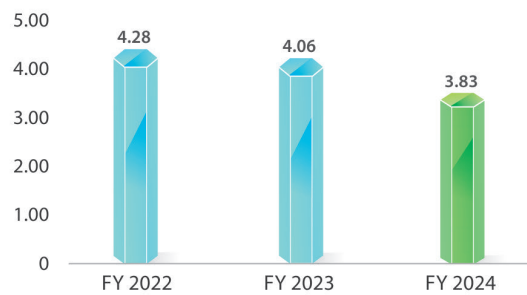
New Permanent Employees (Numbers)



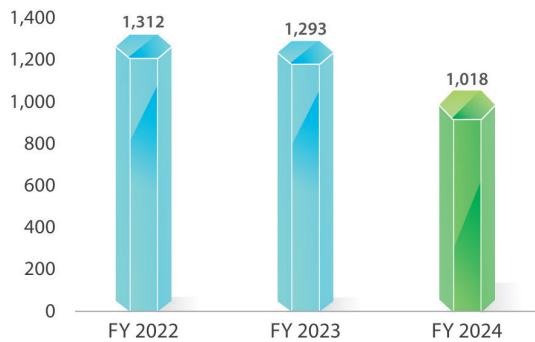
■ New Employee Joined : Male ■ New Employee Joined : Female



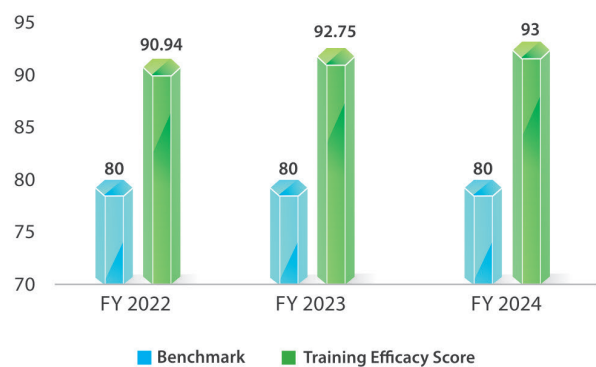
Total Employee Turnover Rate (%)



Total Near Miss Cases (Numbers)

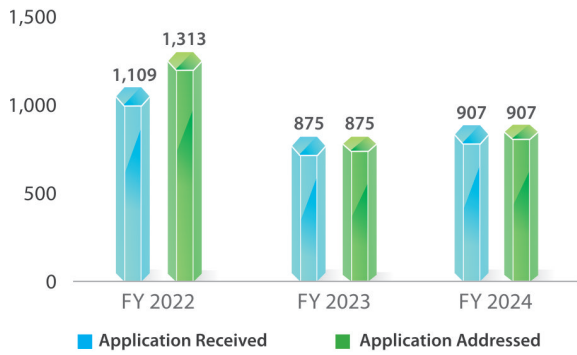


Training Efficacy Score (%)

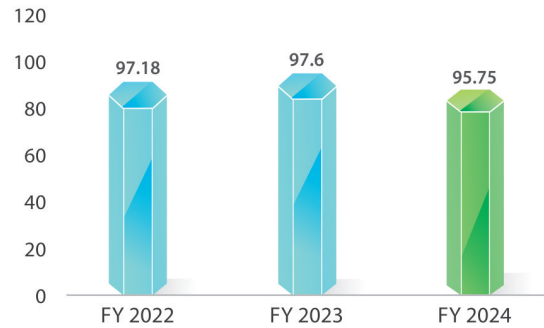


Economic, Environmental, Social and Governance Performance

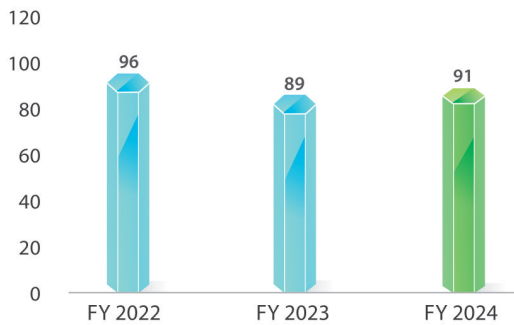
RTI Application (Numbers)



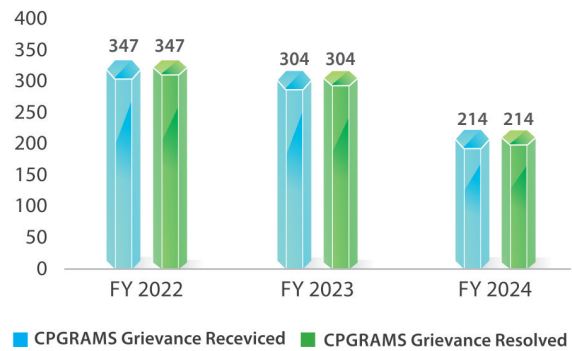
H S E Health, Safety and Environment Score (out of 100%)



Customer Satisfaction Index (Score out of 100)



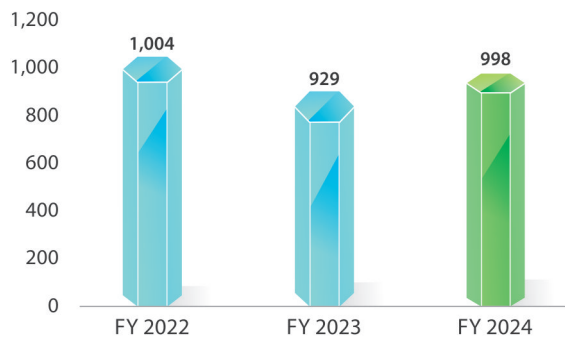
CPGRAMS Grievance (Numbers)



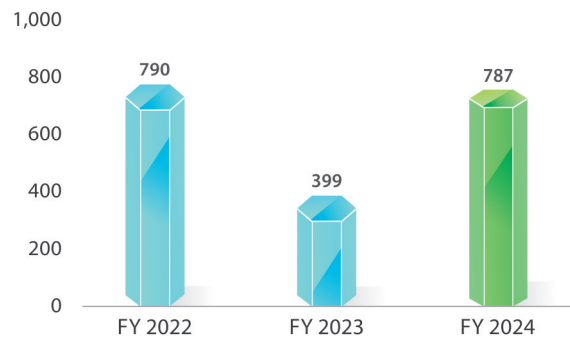
Operational Performance



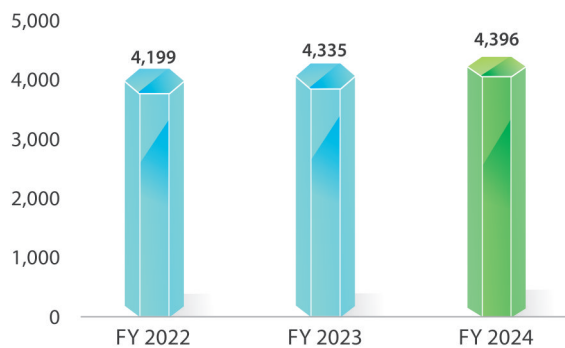
Liquid Hydrocarbons Sales (TMT)



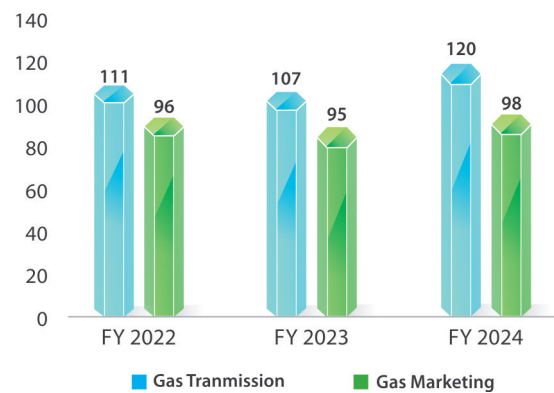
Petrochemicals Sales (TMT)



LPG Transmission (TMT)



Gas Volume Trend (MMSCMD)



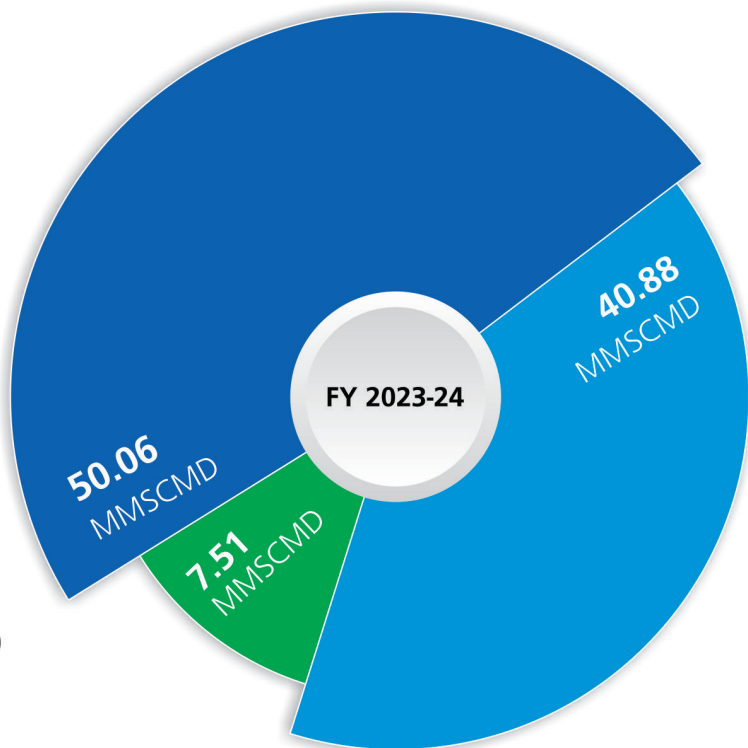
Gas Sourcing and Sector wise Performance for the year 2023-24

Gas Sourcing & Sector Wise Supply

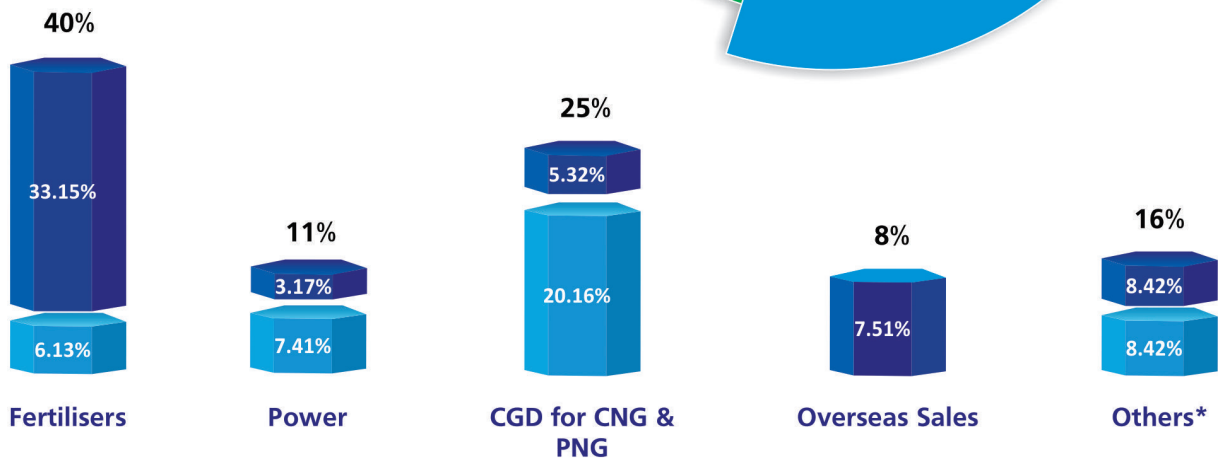
(TOTAL 98.45 MMSCMD, % SHARE)

Gas Sourcing

- Overseas: 50.06 MMSCMD
Overseas
- Domestic Gas: 7.51 MMSCMD
Domestic Gas
- RLNG: 40.88 MMSCMD
RLNG



Sector Wise Gas Supply



CUSTOMERS

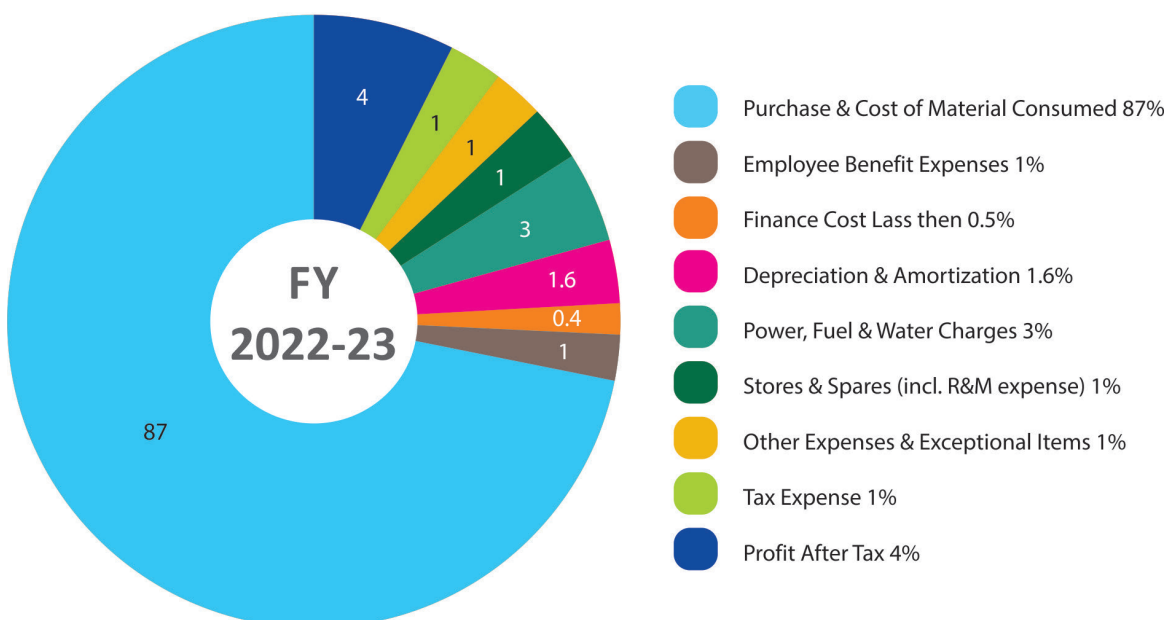


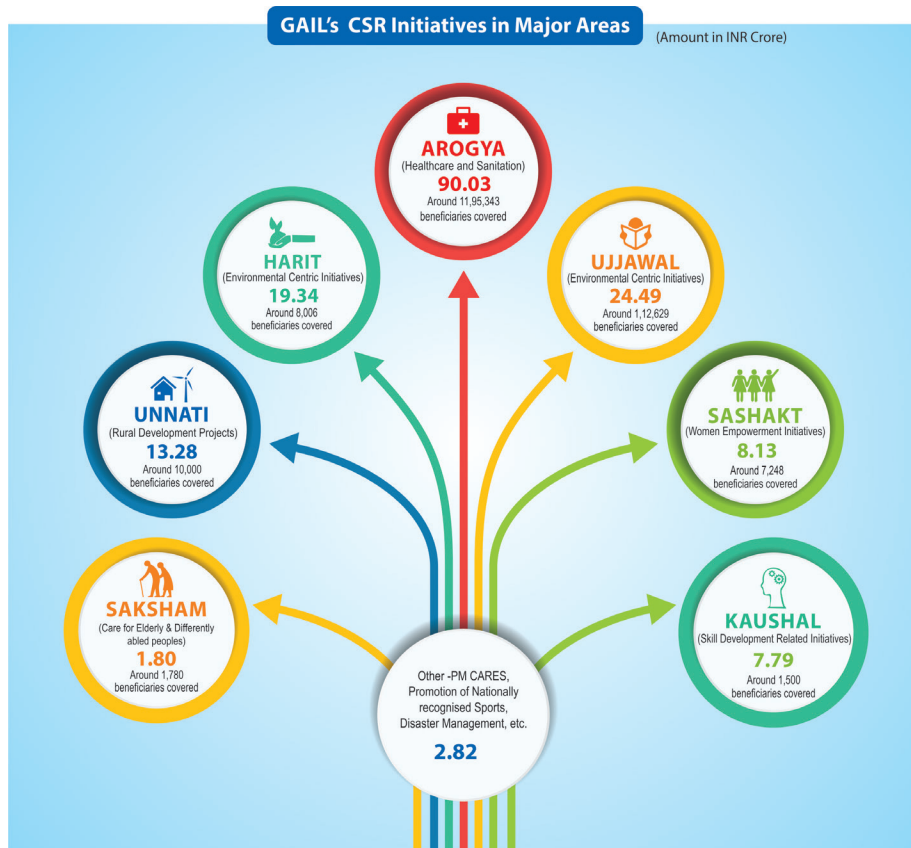
- Imported Gas primarily consists of Long Term RLNG and Spot
- Major sources for domestic gas are ONGC (APM & MDP), Ravva, Ravva satellite, CBM etc.
- Highest demand of Natural Gas from Fertilizer, Power & CGD companies

* Others include Steel, Refineries, Sponge Iron, Petrochemicals, GAIL Internal consumption etc.

Cost and Profit as a Percentage of Total Income

Cost & Profit as a Percentage of Total Income (INR Crore, %)





Towards Sustainable Factories



GAIL - Dabhol Bengaluru Pipeline has been certified as GreenCo Platinum rating by CII - Sohrabji Godrej Green Business Centre. This is the first ever Unit & Pipeline Segment of GAIL to achieve Platinum rating. Another important feature of this achievement was the maiden attempt by this Unit which signifies the efforts made in carrying out various activities in the most sustainable manner. Additionally, in previous years different GAIL sites viz., Vijaipur, Vaghodia, Pata, VSPL, Gandhar, and Jhabua have been certified for the GreenCo rating.

FTSE
Russell

CERTIFICATE OF MEMBERSHIP

This is to certify that

Gail India

is a constituent company in the FTSE4Good Index Series



FTSE4Good

June 2024

The FTSE4Good Index Series is designed to identify companies that demonstrate strong environmental, social and governance practices measured against globally recognised standards.

V3.0



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