



Synergy for Green Energy



Energizing Possibilities

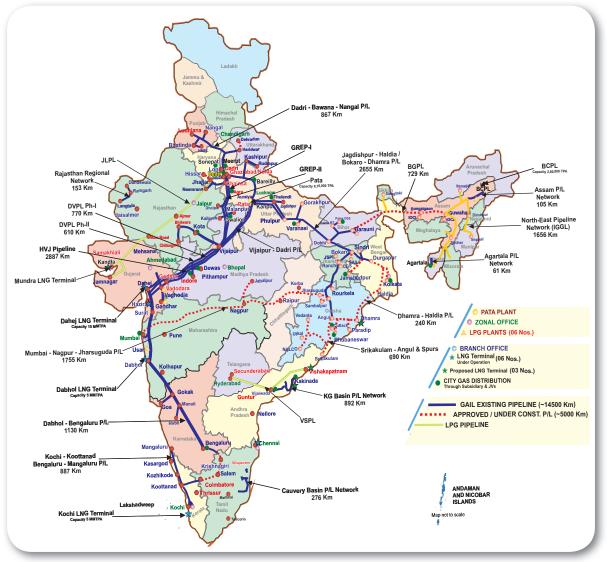
VISION

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

MISSION

Enhancing quality of life through clean energy and beyond

GAIL Network

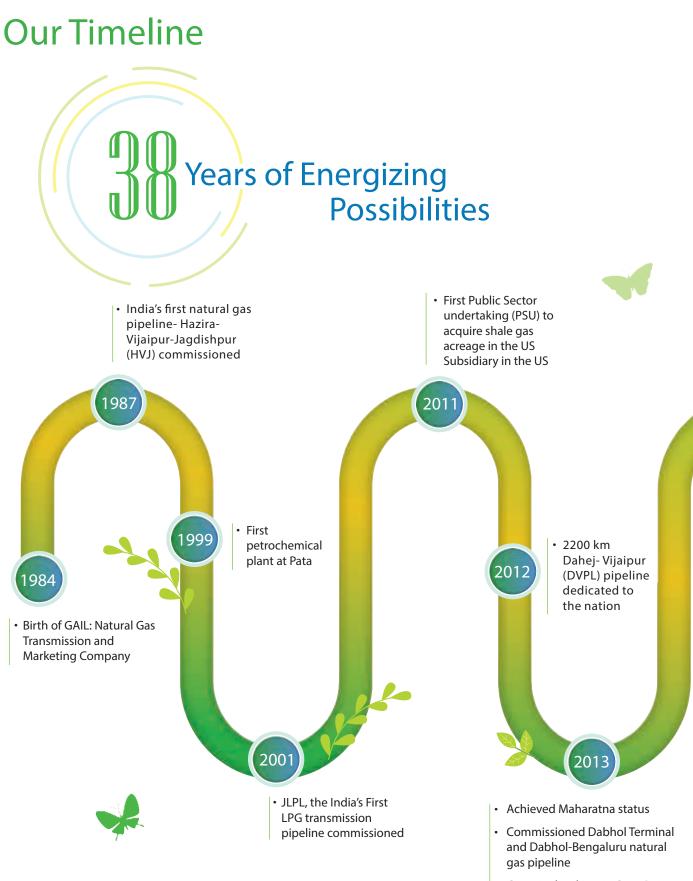


Indian economy is on healthy growth path. The expanding economy along with growing population is going to increase the consumption of primary energy resources such as Coal, Crude Oil, Natural Gas and Renewable Energy in the country.

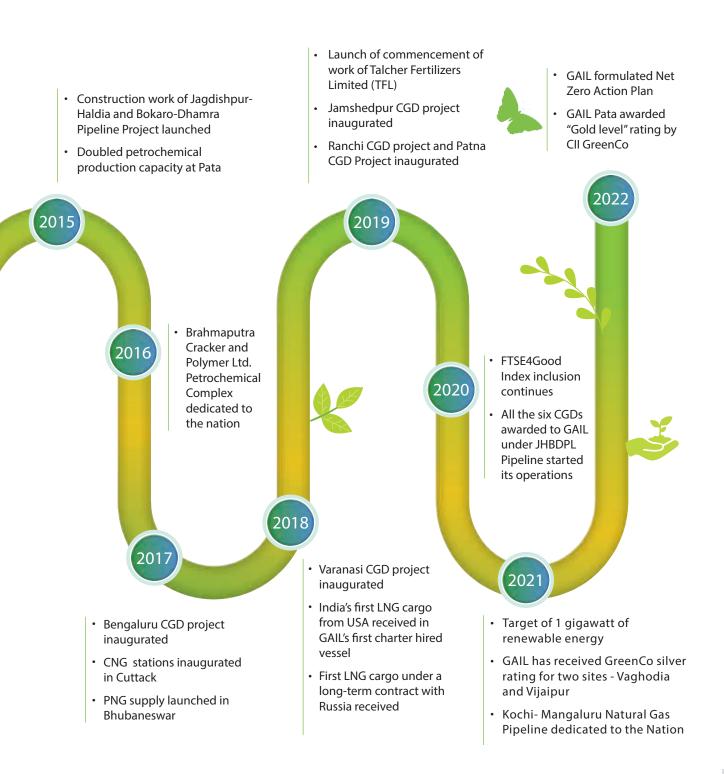
Among the available energy sources, Natural Gas being an environment friendly clean fuel has a potential to play a significant role in providing solutions to the environmental challenges as well as ever growing energy needs in a sustainable manner. Accordingly, Government of India has focused to promote the usage of natural gas as a fuel/feedstock across the country to increase the share of natural gas in primary energy mix from current level of 6.7% to 15%.

Gas Pipeline infrastructure is an economical and safe mode of transporting the natural gas by connecting gas sources to gas consuming markets. Gas pipeline practically determines the structure of the gas market and its development. Therefore, an interconnected National Gas Grid is envisaged to ensure the adequate availability and equitable distribution of natural gas in all parts of the country.

For India, a gas-based economy is critical, and progress is being made towards the goal of "One Nation, One Gas Grid." One Nation, One Gas Grid refers to the integration of several regional networks, resulting in the creation of a National Grid for supplying natural gas-generated energy to various stakeholders such as the central government, state governments, the public, and commercial sectors.



[•] Capacity booking in Cove Point LNG terminal in the US



Message from CMD

With the insurgencies brought by the climate crisis, 'Synergy for Green Energy' will be a key enabler to move towards a better world

Dear Stakeholders,

I am pleased to present GAIL's 12th Sustainability Report, 'Synergy for Green Energy,' which demonstrates our efforts to improve Environmental, Social and Governance (ESG) performance. GAIL's resilience has been a key driver this year in enabling us to thrive, despite the challenges of a post pandemic world. Our employees and systems are adapting to the urgency of climate change and we are working on effective mitigation and adaptation strategies. Additionally, geopolitical changes leading to disruptions in supply chains and volatile commodity prices have also highlighted the need for GAIL to remain agile during this time. GAIL has focused this year on ensuring growth in the supply of gas, as the transition fuel, towards India's goal of reaching Net Zero by 2070.

GAIL is dedicated to reducing its carbon impact by diversifying into renewable energy, alternate fuels and exploring innovative technologies. Committed to meet India's target of reaching Net Zero by 2070, GAIL has already embarked on its Net-Zero journey through science based ambition and action plan with the aim of achieving "100% reduction in Scope 1 and Scope 2 emissions and a 35% reduction in Scope 3 emissions by 2040". Additionally, GAIL is participating in the Internal Carbon Pricing project supported by GIZ, Germany coordinated by SCOPE. In FY 2021-22, we achieved another milestone in our sustainability journey with GAIL Pata (one of the few manufacturing locations) receiving a GreenCo "Gold" rating from CII, that indicates sustainability is deeply ingrained in our operations.

Our organization has a significant responsibility to uphold & achieve the Government of India's vision of "One Nation, One Gas Grid". While fulfilling this, GAIL strives to create a positive impact on the environment and society. Our growing contribution towards energy security and meeting India's growing energy demands in a low carbon economy is unmatched. GAIL currently operates around 14,500 km of pipeline network and markets twothirds of the total quantity of Natural Gas sold in the country. Additionally, we will add another 5,000 km of pipeline length in the next five years.

Natural Gas, will be a key transition fuel which is going to shape the decarbonisation journey across sectors. Apart from large corporations, medium and small businesses are also switching to Natural Gas to reduce the environmental impact. Our overall strategic intent is supported by reviewing and reframing our operational systems and procedures to mitigate risks and tap emerging opportunities.

This financial year, GAIL has taken further initiatives to promote gas markets in new cities and create

GRI 102-14, 103-2, 103-3

new market opportunities. We have focused on expansion and ensured that we are on track to meet the ambitious targets that were set on the 'Urja Ganga' project, to bring clean energy to eastern India.

Additionally, through our synergistic acquisition of 26% equity stake in ONGC Tripura Power Company (OTPC), we will further strengthen our presence in the North Eastern region of the country. Furthermore, in line with the National Hydrogen Mission, GAIL has commenced, a first of its kind, pilot project to mix hydrogen into natural gas to work towards a hydrogen-based and Net-Zero future. GAIL is setting up a 10 MW Green Hydrogen plant at Vijaipur (Guna District, Madhya Pradesh), as we march towards establishing hydrogen economy in India, GAIL is also exploring the viability of possible hydrogen derivatives in India such as ammonia, methanol etc.

GAIL is committed in upholding world-class standards to ensure operational safety, performance and growth. We take numerous measures to ensure better health and well-being of our employees and community, through our CSR initiatives. Under the 'GAIL Hriday' initiative, we aim to improve the lives of thousands of underprivileged people by generating social capital in the areas of education, healthcare, skill development, women empowerment and environmental protection. As a responsible company, we have spent ₹ 204.97 crore under various initiatives of 'Hriday'.

We are also committed to increase the participation of local vendors and suppliers in our supply chain, in line with the PM's goal of 'Vocal for Local'. We believe, this will not only reduce the environmental impact but also create a positive social impact in the long run.

At GAIL, our mission is to be focused on "Enhancing quality of life through clean energy and beyond" across the nation by connecting various households, industries and the transport sector with eco-friendly fuel. Creating a positive customer experience and driving value through quality, innovation and responsiveness is a strategic pillar in our business growth model.

GAIL has always strived for strong governance and a robust set of triple bottom line management

strategies and policies. This guides us into consistent implementation of our sustainability agenda throughout our joint ventures, locations and subsidiaries. By establishing the right leadership, we aim to foster a culture of ethics and trust. GAIL's code of conduct is designed to support our commitment towards conducting business with the highest possible ethical standards. Our business processes and practices are focused on achieving excellence while addressing issues such as the environment, health, safety and human rights. The robustness of our governance practices has made GAIL achieve performance and operational excellence every year, while delivering and serving the nation with top notch quality. We are consistently providing steady longterm returns on the investments to our shareholders. This year marked the highest ever dividend payment by GAIL in terms of the total dividend amount.

Our report follows the Global Reporting Initiative's "Comprehensive" reporting standards. It also complies with the updated Business Responsibility and Sustainability Report (BRSR), National Guidelines on Responsible Business Conduct (NGRBC), IPIECA 2020, Sustainability Accounting Standards Board (SASB) requirements. I would like to thank all the GAIL employees for their ongoing dedication and hard work.

It gives us immense pride to mention that GAIL (India) Limited was featured at COP26 as part of the UN Global Compact-Accenture CEO Study on Sustainability for 2021. This was the largest CEO study on sustainability and climate change ever conducted in the history of global sustainability conferences. Out of the numerous businesses present across the world, only ten Indian businesses were featured in the report and GAIL was one of them.

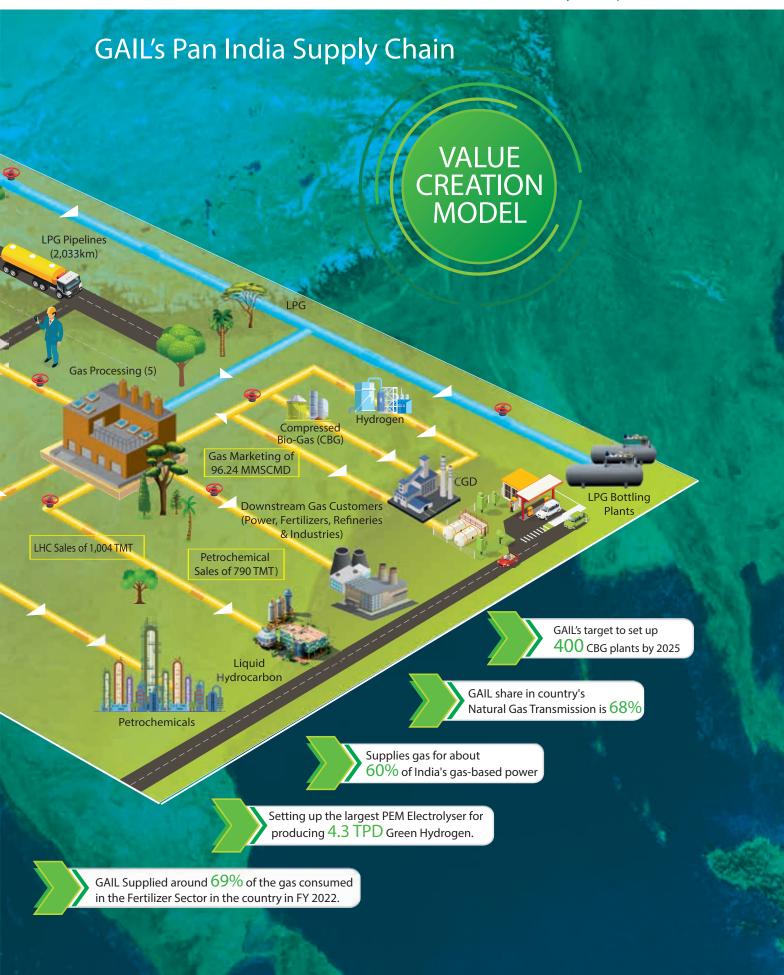
Additionally, GAIL won the prestigious "Sustainably Growing Corporation of the Year" award from Federation of Indian Petroleum Industry (FIPI) this financial year. GAIL has been awarded for its conservation practices by PCRA (Petroleum Conservation Research Association) 'Saksham' a campaign launched by MoP&NG. These awards are a recognition of GAIL's continued sustainability efforts. We look forward to continue our sustainability journey and are delighted to share our progress, thus far, through this report.

Mang J.

Manoj Jain Chairman & Managing Director

"CMD Message of GAIL Sustainability Report FY 2021-22 is Reproduced in this Report"





GAIL Highlights



Hon'ble Prime Minister, Shri Narendra Modi dedicated the Bokaro-Angul Natural Gas Pipeline to the Nation



Shri Hardeep Singh Puri, Hon'ble Minister of Petroleum & Natural Gas and Housing & Urban Affairs inaugurated 166 CNG stations of GAIL Group of Companies

Sustainability Glimpses 2022



Inauguration of GAIL-HPCL Mittal Energy Ltd's (HMEL) Natural Gas Pipeline by Manoj Jain, Chairman & Managing Director, (GAIL) and Prabh Das, Managing Director and CEO (HMEL) in the presence of Deepak Gupta, Director (Projects) from GAIL and others.



GAIL (India) Limited's Annual Report and Financial Statement for the year ended 31st March 2021 has won the 'Gold Shield' in the Institute of Chartered Accountants of India Awards for Excellence in Financial Reporting for 2020-21.



GAIL's won "Trend Setting Creative Marketing Campaigns Category Award" for *Hawa Badlo* campaign by Bharat Prakashan Ltd. The award was received by Shri M. V. Iyer, Director (Business Development) and Shri Rakesh Kumar Jain, Director (Finance) along with senior officials



GAIL won National Award for Excellence in Cost Management from ICAI presented by Shri Piyush Goyal, Hon'ble Union Minister, Commerce & Industry, Textiles, Consumer Affairs and Food & Public Distribution. The award was received by Shri Rakesh Kumar Jain, Director (Finance) and Shri Deepak Gupta, Director (Projects)

Sustainability Glimpses 2022



GAIL was awarded Golden Peacock Award for Corporate Social Responsibility for the Gas sector by Shri Arjun Ram Meghwal, Hon'ble Union Minister of State for Parliamentary Affairs and Culture. Shri Rakesh Kumar Jain, Director (Finance) along with senior officials received the prestigious award



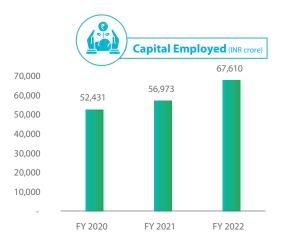
GAIL awards contract to set up largest PEM Electrolyser for producing 4.3 TPD Green Hydrogen (about 10 MW capacity) of 99.99% purity at at Guna in Madhya Pradesh to produce green hydrogen by the end of 2023.

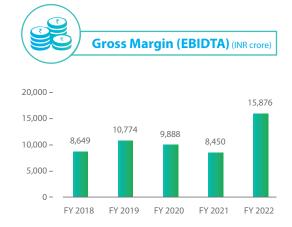
Financial Performance - Standalone











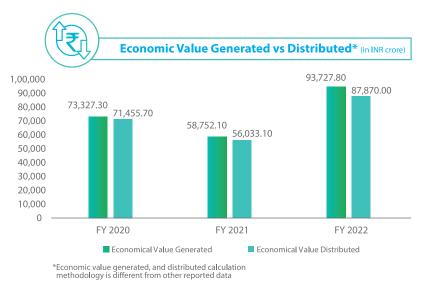




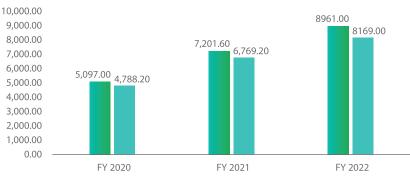




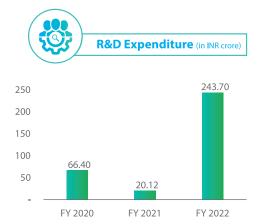
Economic, Social & Environmental Performance²²







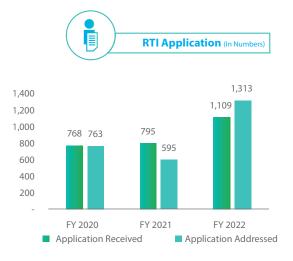
Procurement Highlights Total amount spent on procurement of goods and supplies
 Procurement Highlights Total amount spent on procurement of goods and supplies from local suppliers





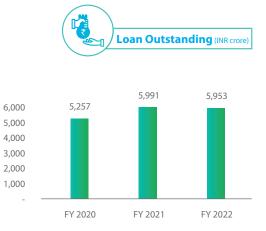


Economic, Social & Environmental Performance



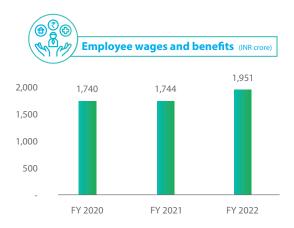


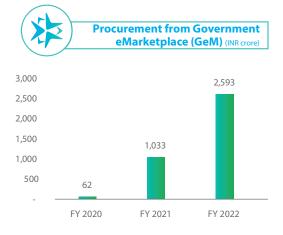




*Excluding lease liability

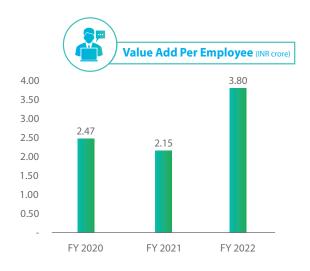






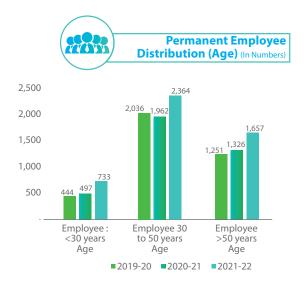
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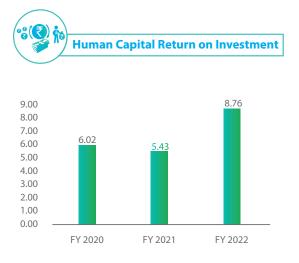
Economic, Social & Environmental Performance



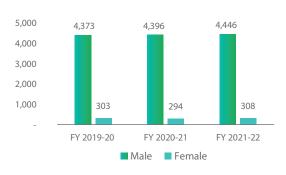




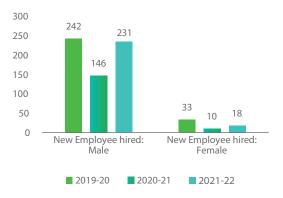












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FY 2020

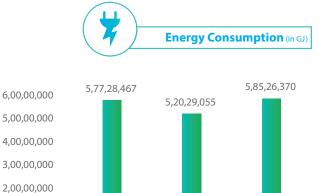
FY 2020

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Economic, Social & Environmental Performance

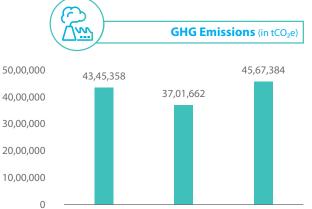
FY 2022

FY 2022



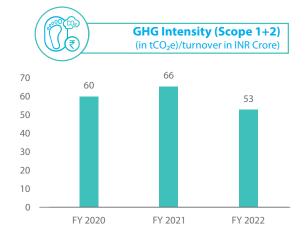
FY 2021



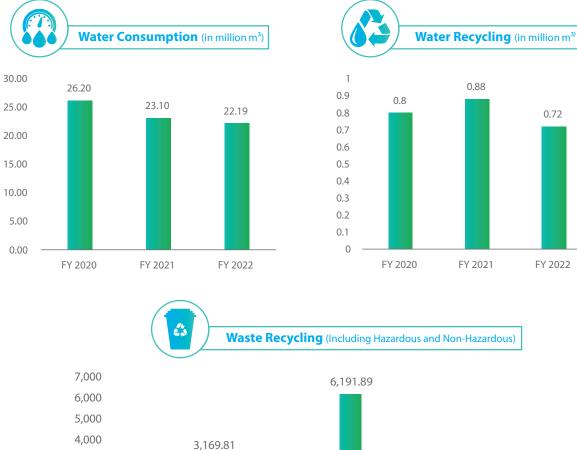


FY 2021

FY 2020 FY 2021 FY 2022 Savings are reported based on energy saving initiatives implemented at sites/offices



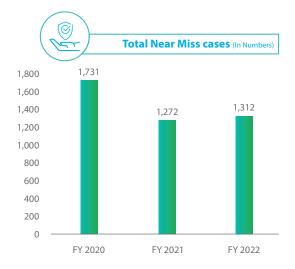
Economic, Social & Environmental Performance



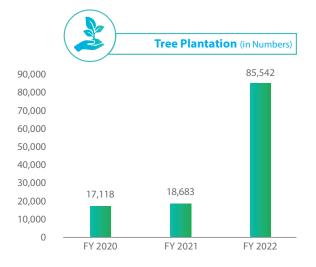
3,169.81 2,697.27 2,554.00 3,000 2,326.08 2,000 759.69 1,000 0 Liquid (KL) Solid (MT) Liquid (KL) Solid (MT) Liquid (KL) Solid (MT) FY 2020 FY 2021 FY 2022



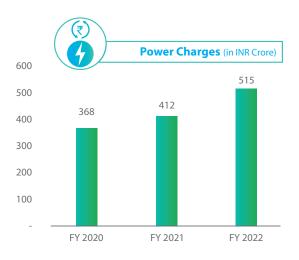


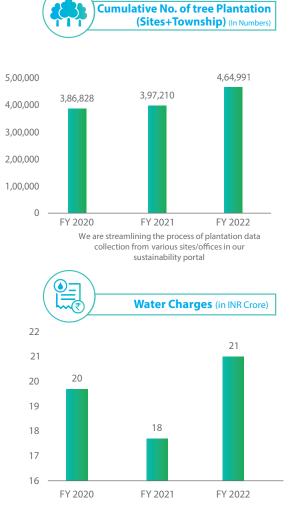


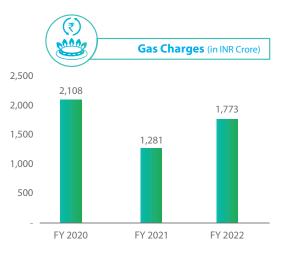
Economic, Social & Environmental Performance



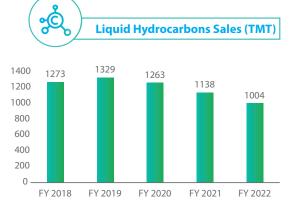


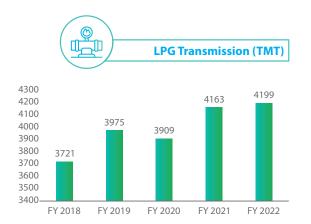




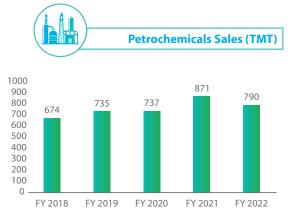




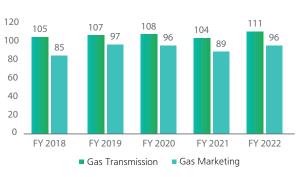


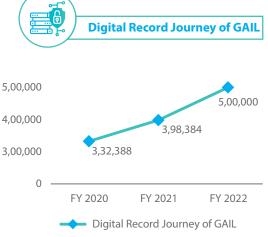




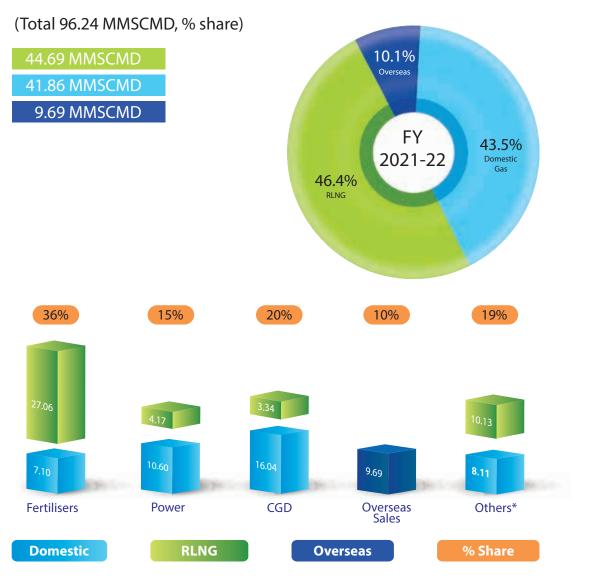








Gas Sourcing & Sector Wise Supply (FY 2021-22)

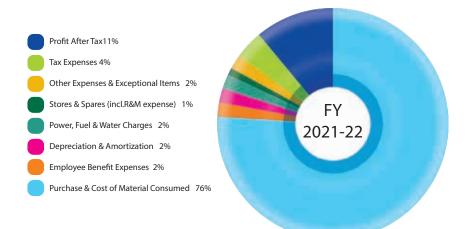


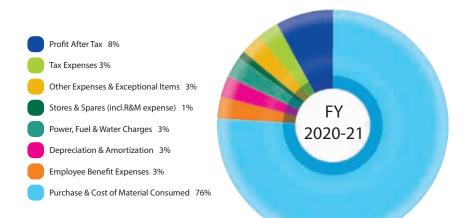
Imported Gas primarily consists of Long Term RLNG and Spot

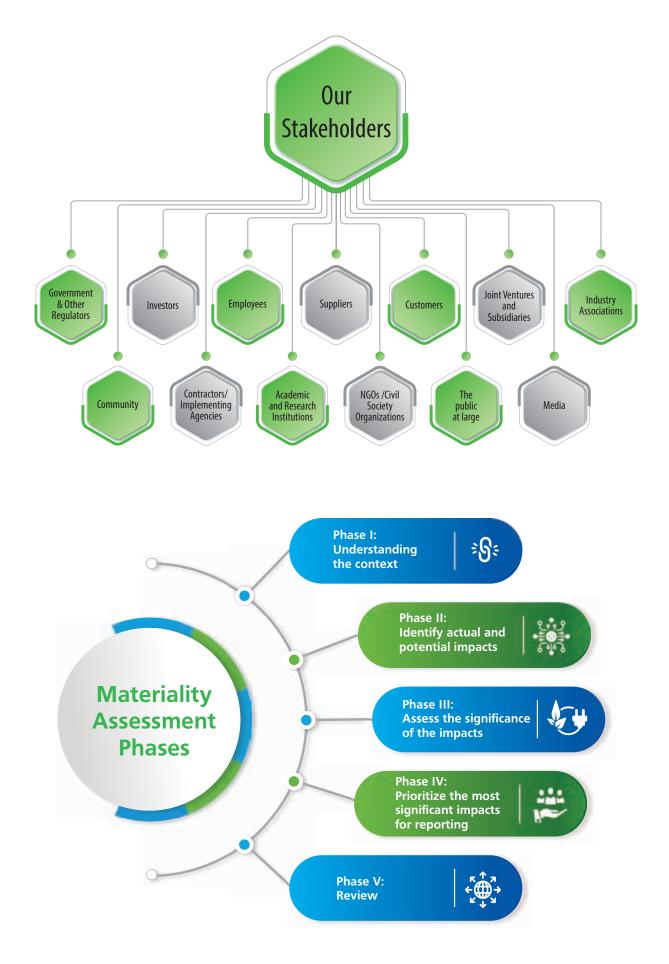
Major sources for domestic gas are ONGC (APM & MDP), Ravva, Ravva satellite, CBM etc.

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

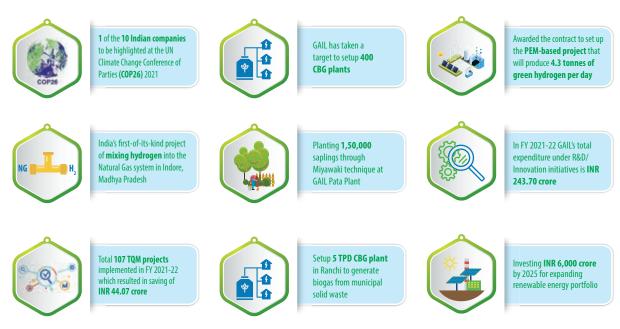
Cost & Profit as a Percentage of Total Income







Sustainability and Climate Change at GAIL



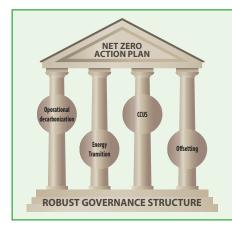
Sustainability Governance

Our strong governance structure along with our sustainability policy enable us integrating environmental and social accountability into the core of our growth strategy. (https://www. gailonline.com/SBPolicy.html). GAIL has a threemember Sustainable Development Committee (SDC) on its Board of Directors. As of 31st March 2022, the committee, is chaired by the GAIL's Chairman and Managing Director (CMD) and comprises of Director (Projects), Director (Business Development), as members. The SDC met four times in FY 2021-22. The SDC is informed by the Sustainable Development Steering Committee (SDSC), which backs up the Sustainability Policy directives and is responsible for carrying out the company's sustainability goals as well as risk and performance management.

GreenCo Assessment of the sites

As part of our efforts to reduce our energy consumption, we are constantly implementing various energy efficiency initiatives across our sites. To further streamline these efforts, GAIL has commenced the process of implementing the GreenCo Rating across its several sites. In FY 2021-22, GAIL's Pata plant achieved the distinction of becoming the first GAIL unit to be awarded the "GreenCo Gold" rating by CII Sohrabji Green Business Centre.





GAIL's Envisioned Net-Zero Action Plan

GAIL is committed towards developing decarbonization capabilities in line with Government of India's vision. To achieve the above targets, GAIL is currently in the process of developing a Net-Zero strategy roadmap by incorporating Science Based Targets.

Summary of GAIL's Decarbonization Initiatives

Type of Initiatives/technology	Initiatives/projects taken by GAIL
Methane emission reduction	Flare Gas Recovery units (FGRU)
	Reducing transmission leakage by setting up leakage detection systems
Energy Efficiency	Converting all buildings into green buildings as per CII- GreenCo rating
	Installing Heat Recovery Steam Generation units (HRSG)
	Installing LED lights and replacing various old components with energy
	efficient counterparts
Renewable energy	Replacing Diesel Generators with Gas based Generators Current installed capacity of Renewable energy: 131 MW
Reliewable ellergy	 Target of 1 GW renewable energy by 2025
	 Target of 1 GW renewable energy by 2023 Target of 3 GW renewable energy by 2030
	 2.4 MWp Solar rooftop at Pata Plant
	 1.8 MWp Solar ground mounted at Vijaipur Plant
Energy Transition	Biofuels:
	1. Compressed Biogas (CBG):
	 In process of setting up 400 CBG plants under SATAT Scheme
	 Blending CBG with NG in distribution pipeline
	Conversion of Diesel Boat into CBG Boat
	2. Ethanol Blending
	3. Green Hydrogen:
	Setting up India's largest (10MW) green hydrogen plant in Guna, Madhya Pradesh
	Pilot study for H-CNG (Hydrogen blended CNG)
	Forming JVs for Electrolyser manufacturing
Carbon Capture Utilization	GAIL has undertaken pilot projects with premier institutes for following technologies
and Storage (CCUS)	• CO ₂ to Methanol & DME (Dimethyl ether)- in collaboration with IIT-Delhi
	• CO ₂ to Polycarbonate Diol- in collaboration with IISER- Tirupati
	• CO ₂ to Syngas- in collaboration with IIP Dehradun
	CO ₂ fixation using Microalgae
Nature Based Solution	• GAIL is looking to plant more trees, with the target of planning 1,50,000 trees under "Miyawaki Forestry".
	 GAIL has also planted 75,000 trees at their PATA plant
Supporting Green innovation	GAIL has also planted 75,000 trees at their FAIA plant GAIL has also setup an INR 100 crore corpus fund under its "Pankh" initiative to
Supporting Green innovation	invest into the green Start-ups and built a strong eco-system for green technologies

Business Responsibility and Sustainability Report

GAIL (India) Limited is a Government Company under the administrative control of the Ministry of Petroleum & Natural Gas (MoP&NG). As a responsible company, we always aspire to comply with all the applicable rules and regulations of Gol. Towards this end, GAIL has adopted Business Responsibility & Sustainability Report (BRSR) as per the SEBI circular (SEBI/HO/CFD/CMD-2/P/CIR/2021/562 dated 10th May 2021) describing the initiatives taken by the Company from an Environmental, Social and Governance perspective and the same forms part of the Annual Report of FY 2021-22. Further, Sustainability Report FY 2021-22 also covers BRSR disclosures requirements.

The BRSR report covers all General Disclosures, Management and Process Disclosures, and Principle Wise Performance Disclosure. Following table maps BRSR requirements with appropriate Sustainability Report sections. The detailed Business Responsibility and Sustainability Report is disclosed in our Annual Report FY 2021-22 (https://www.gailonline.com/pdf/InvestorsZone/AnnualReports/GAILAnnualReport202122Final.pdf).

Sections and Principles of BRSR	Sections of Sustainability Report
Section A: General Disclosures	About the Report, Message from CMD and Directors, GAIL Highlights, GAIL at a Glance, Strong Governance and Business Resilience, Business Growth, Our Employees, Our Customers, Performance and Standards
Section B: Management and Process Disclosures	About the Report, Message from CMD and Directors, Strong Governance and Business Resilience, Operational Excellence, Energy and Environment, Our Employees, Responsible Supply Chain Management, Our Community
Section C: Principle Wise Performance Disclosure	
Principle 1	Business Resilience, Operational Excellence, Our Employees, Our Community, Performance and Standards
Principle 2	Energy and Environment, Responsible Supply Chain Management
Principle 3	Our Employees, Ensuring Health and Safety for All, Performance and Standards
Principle 4	Our Stakeholder Inclusion and Materiality
Principle 5	Our Employees, Our Suppliers
Principle 6	Operational Excellence, Energy and Environment, Climate Change, Performance and Standards
Principle 7	Strong Governance and Business Resilience
Principle 8	GAIL Highlights, Strong Governance and Business Resilience, Our Employees, Our Suppliers, Responsible Supply Chain Management, Our Customers, Our Community
Principle 9	Business Growth, Our Customers, Our Community

GAIL Social Outreach



In FY 2021-22, GAIL has spent INR 204.97 crore under CSR initiatives

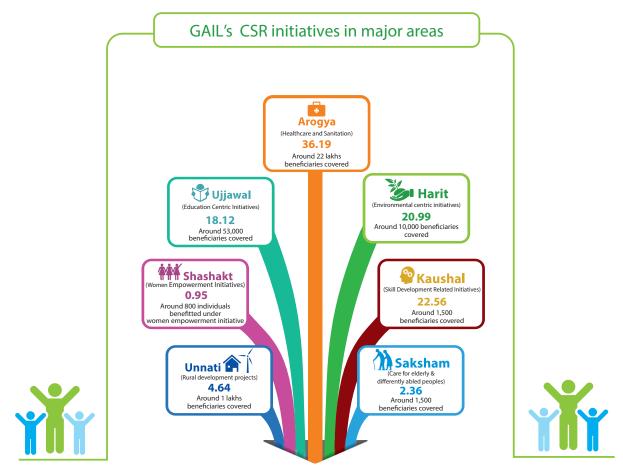


Under **'Hawa Badlo'** initiative- **1000 km Green Ride** on bicycle from Mumbai to Delhi



100% of beneficiaries from CSR Projects were vulnerable/marginalised and disadvantaged people

(Amount in INR crore)



Stakeholder Engagement and Materiality Assessment

At GAIL, we acknowledge our responsibility to identify and meet stakeholder expectations to create long-term value for all stakeholders. We engage with our stakeholders and understand their concerns and interests through the materiality assessment process. Materiality assessment is crucial to determine the key aspects that could have a significant impact on our stakeholders as well as on our business. The new BRSR requirement now also includes reporting on the significant material issues identified and the rationale for identifying them.

During FY 2021-22, we undertook the 'Towards Sustainable and Net Zero GAIL Survey 2021-22' as a key step to gather the perspectives and feedback from our stakeholders. The survey recorded participation from around 252 employees. The outcome of such feedback and materiality assessment was utilized in defining the Company's key ESG priorities and develop action plan to address the same.

Green Ride – "Ek Pahal Swachh Hawa Ki Ore'

Powered by GAIL under "Hawa Badlo" Initiative, a Green Ride on bicycle was organised from Mumbai to Delhi to raise awareness on ill effects of air pollution and benefits of healthy lifestyle. Fitness icon Shri Milind Soman reached Delhi where he culminated the 'Green Ride. The Green Ride entourage started on December 3, 2021 from Mumbai and passed through Maharashtra, Gujarat, Rajasthan and Haryana before arriving at New Delhi. Shri Milind Soman interacted with media at various points, met environmentalists, rural students and planted saplings on his route to spread awareness on the issue of clean air. He also interacted with GAIL employees at various places and discussed issues of health, fitness and environment with them.



Sustainability Reporting Standards and guidelines covered



Miyawaki based afforestation

Pata ushered in a massive plantation drive in celebration of the Van Mahotsav and Swachhta Pakhwada festivities by planting 1,50,000 saplings. GAIL Pata has signed an agreement with the Uttar Pradesh State Forest Department (UPSFD) for the successful execution of this large-scale plantation activity over an area of 4.3 Hectares. The plantation drive was led by Shri Ajay Tripathi, Executive Director (PC-O&M) & OIC Pata along with Chief General Managers of GAIL Pata and representatives of the UP State Forest Department.





Synergy for Green Energy

At GAIL, we have been channelizing our resources and focusing our energies on paving way for a greener future. GAIL started this movement with leadership presence in Natural Gas. GAIL has been constantly expanding its operations and reaching towns and cities of India with City Gas Distribution and energizing lives with cleaner fuels - CNG and PNG. We have also been instrumental in shaping the National Grid in the nation. Going steps further GAIL has also expanded its energy basket with forays into Wind, Solar, CBG and Hydrogen Energy to provide greener fuels to accelerate sustainable growth of India. Our endless endeavours towards a sustainable futures are what Synergy for Green Energy is all about.



GAIL (India) Limited

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