



IndianOil



CRAFTING A GREEN FUTURE

Sustainability Report 2021-22



IndianOil:

The Energy of India

IndianOil is India's flagship oil & gas public sector undertaking. Incorporated in 1959, IndianOil operates under the aegis of the Ministry of Petroleum and Natural Gas (MoP&NG), Government of India. The Company is playing a pivotal role to help the country become energy secure powered by green energy sources. IndianOil was ranked 142nd in the Fortune Global 500 listing for 2022. Brand IndianOil is one of the most widely recognised brands in the country with 58,000+ customer touch-points.





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Letter from the Chairman

I am happy to present the 17th edition of our Annual Sustainability Report “Crafting a Green Future”.

We stand today at an inflection point in the Company’s sustainability journey as we commit to Net Zero operations by 2046. As part of this evolution, IndianOil has transitioned from a national Oil and Gas major to a holistic Energy Solutions Provider with a growing portfolio of future-fit green energy offerings, including on-grid and off-grid renewable energy, natural gas, biofuels and green hydrogen. We are focusing on expanding the share of clean fuels in our product mix, reducing value chain emissions, strengthening environmental stewardship and accelerating innovation and human resource development. We are also investing in developing technologies for hydrogen storage, fuel cells, electric batteries, advanced biofuels and CCUS. As the ‘Energy of India’, we are constantly sharpening and scaling our endeavours to infuse circularity, sustainability and green consciousness into every aspect of our operations.

SHRIKANT MADHAV VAIDYA

Chairman





Performance Highlights

FY 2021-22

₹7,28,460 Cr.

Highest-ever revenue from operations

67.66 MMTPA

Refinery Throughput

₹30,391 Cr.

CAPEX Spend

73.74 MMT

Petroleum Product Sales

21.54 MMTCO₂e

Scope-1 & Scope-2 emission

258 MMTCO₂e

Scope-3 Emission

₹708.5 Cr.

Investment in renewable energy

32%

Waste water as proportion of total water

₹2,64,436 Cr.

Contribution to Exchequer

₹298 Cr.

CSR Spend

37.43%

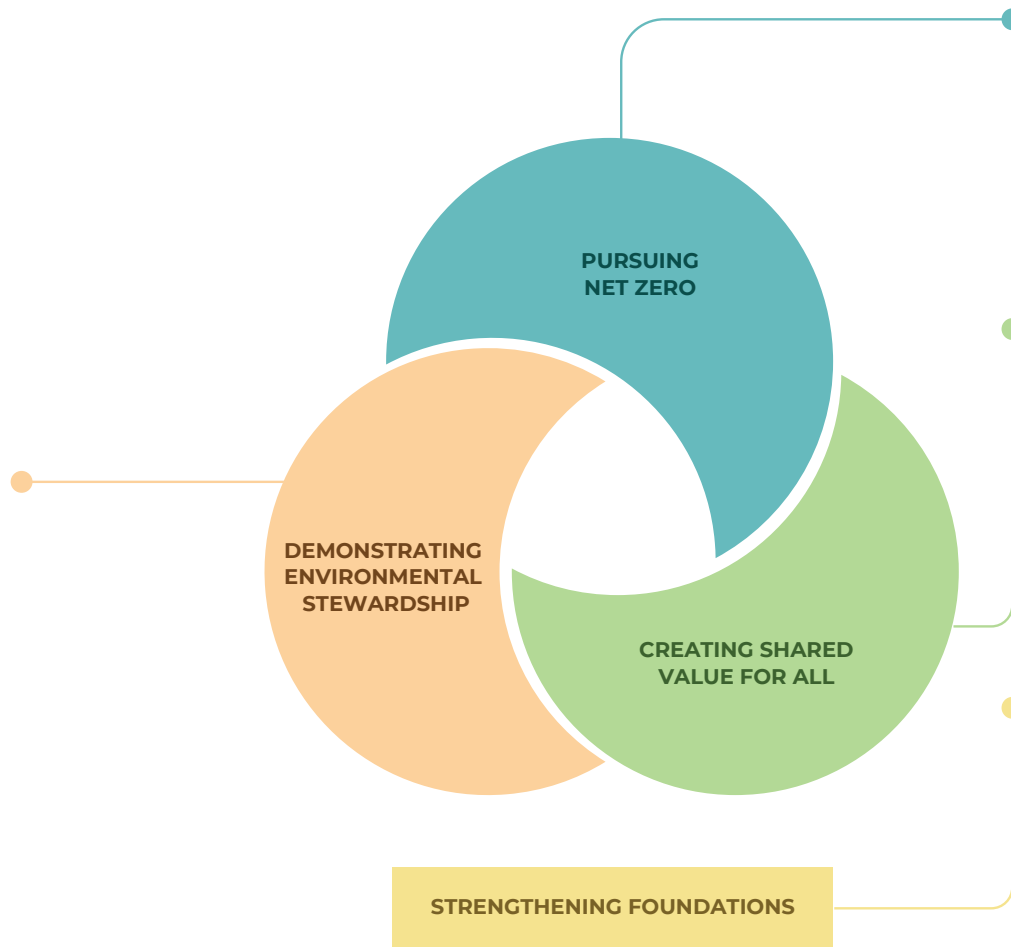
Non-critical materials procured from MSME vendors

5,000+

Safety Clinics conducted for LPG customers

Approach to Sustainability

Our efforts include sourcing local materials, minimising water usage and waste generation, enhancing energy efficiency, developing greener products, restoring natural habitats and conserving biodiversity led by the principles of a circular economy.

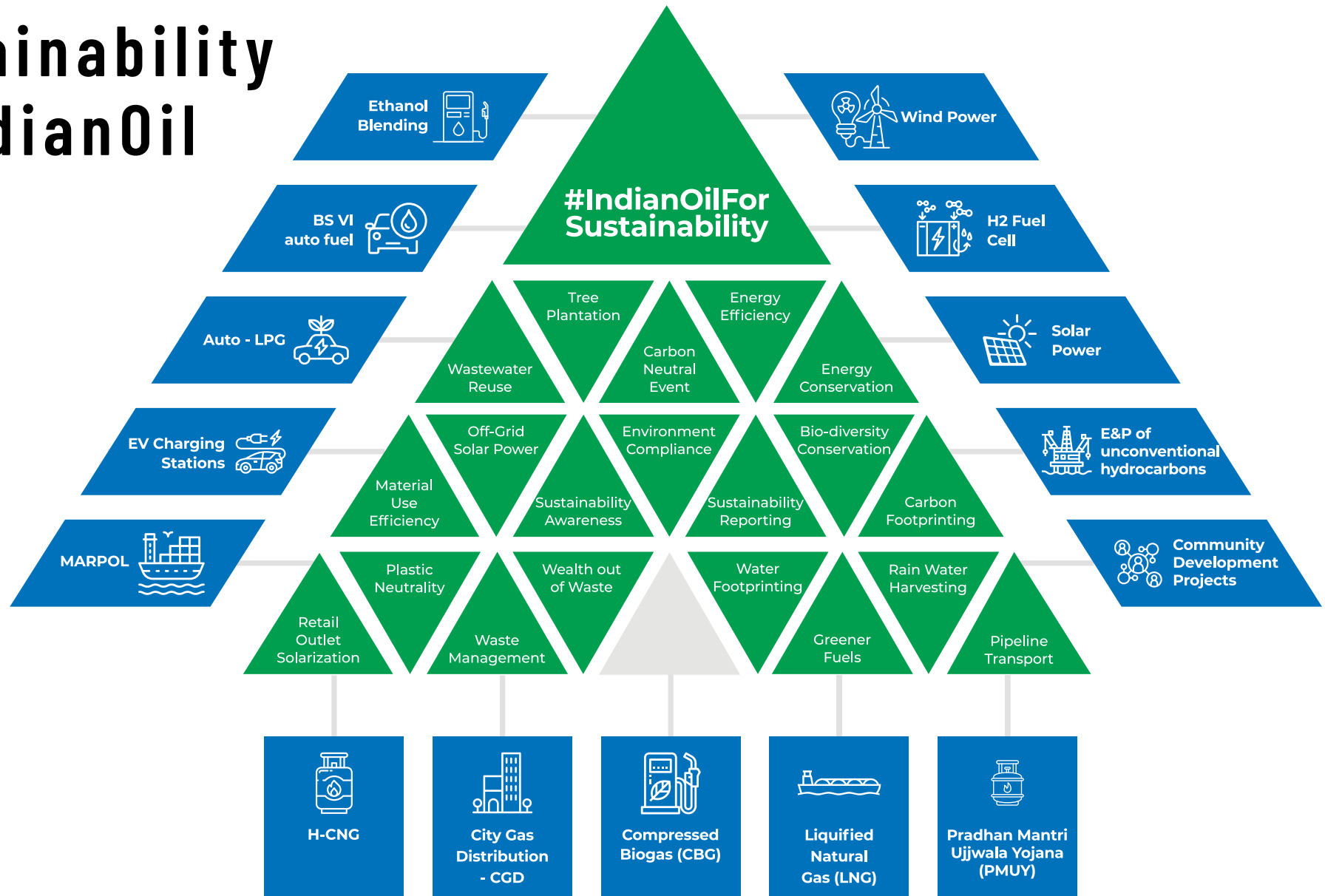


IndianOil has committed to achieving carbon-neutral operations by 2046. The decarbonization journey of IndianOil is marked by significant increase in investments in low-carbon solutions.

IndianOil shares transparent disclosures of its sustainable business performance and risks with stakeholders. The Company puts its employees, suppliers and contractors, customers, shareholders and local communities at the core of its people-centric policies.

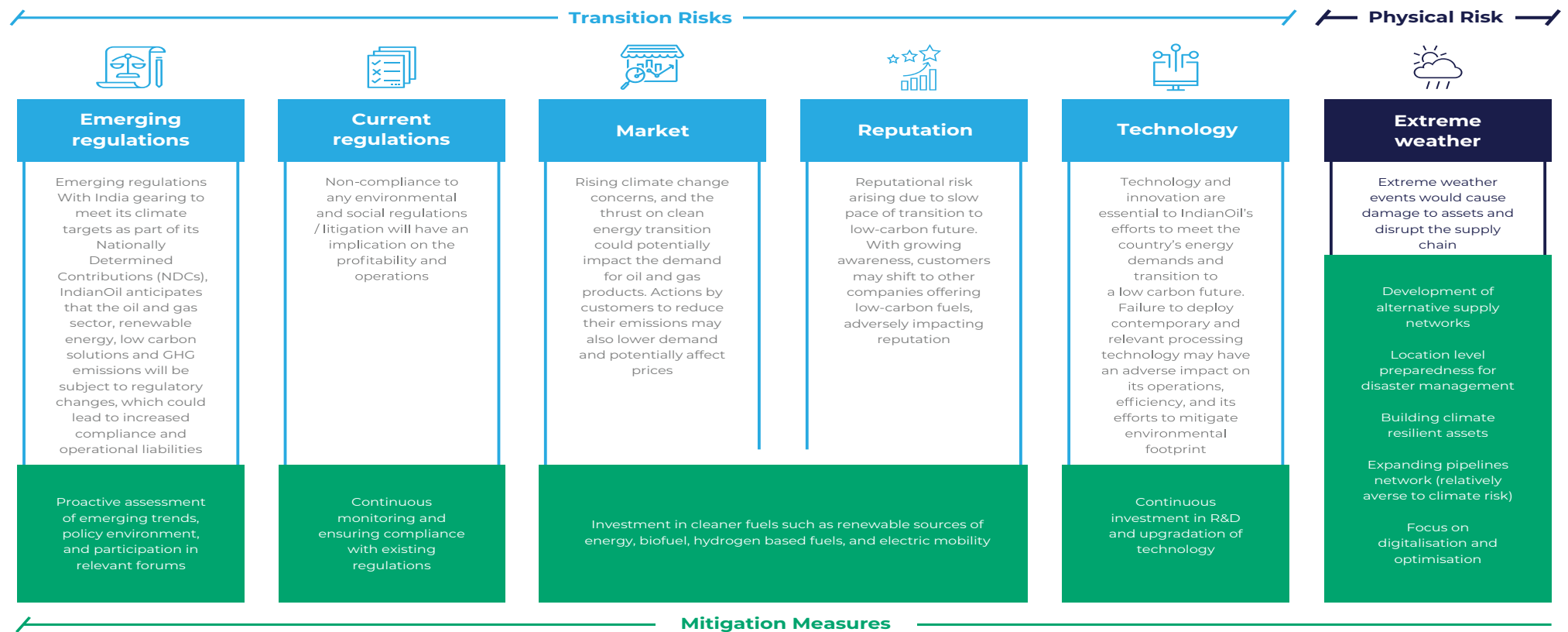
IndianOil is transforming into a vertically integrated and diversified energy leader powered by its strong foundation of values and ethics, financial stability and robust governance. The Company is on course to enhance India's energy security and broaden access to affordable & cleaner energy for citizens.

Sustainability @ IndianOil



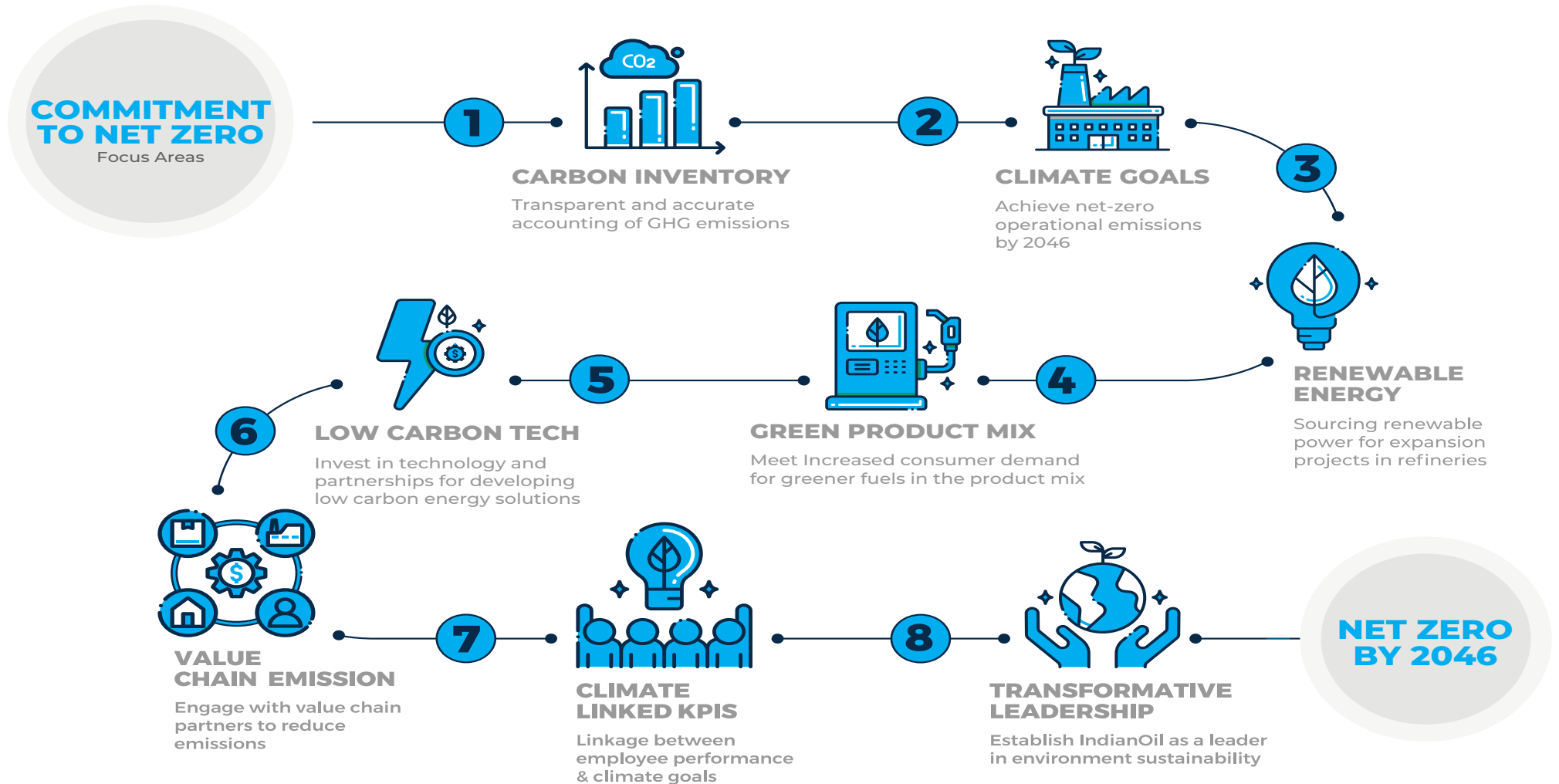
Managing Climate Risk

Given the nature of IndianOil's business, and its exposure to climate stressors, building resilience in our infrastructure, processes and systems is necessary to provide seamless service to our customers. A climate resilient infrastructure will provide IndiaOil a competitive advantage, and we are therefore adapting measures to the physical and transition risks of climate change.





Pursuing Net Zero



Emission Review for FY 2021-22

21.54 MMTCO₂e

Scope-1 & Scope-2 emission

258 MMTCO₂e

Scope-3 Emission

Emission avoidance/
mitigation
3.36
MMTCO₂e

0.28
MMTCO₂e



ENERGY EFFICIENCY

IndianOil's energy conservation efforts contributed to estimated saving of 67,000 Standard RePnery Fuel Tonnes in rePnery complexes.

0.22
MMTCO₂e



RENEWABLE ENERGY

IndianOil's Current RE capacity stands close to 240 MW comprising of Solar (~70 MW) and Wind (~170 MW) power.

1.60
MMTCO₂e



FUEL REPLACEMENT

IndianOil is replacing liquid fuel in operations with cleaner natural gas.

1.13
MMTCO₂e



PIPELINES TRANSPORT

IndianOil pipeline infrastructure spans in excess of 15,000 km. Pipelines offer 75% emission reduction as compared to rail.

0.08
MMTCO₂e



TREE PLANTATION

IndianOil undertakes large-scale plantations across locations. ~40 lakh trees are estimated to be surviving within and beyond boundary.

0.05
MMTCO₂e

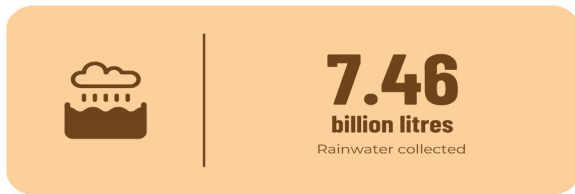


EFFICIENT LIGHTING

IndianOil has replaced close to ~8 lakh non-LEDs with LED lights.

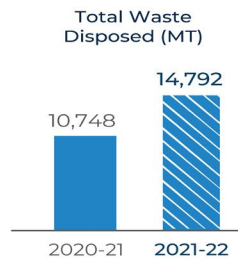
Environment Stewardship

Water Stewardship



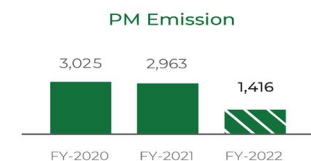
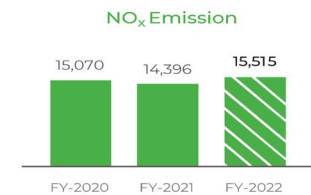
Responsible Waste Management

IndianOil adopts efficient waste management practices, including segregation of operational waste; treatment, reuse and disposal through authorized vendors of hazardous and non-hazardous waste and diverting organic waste and plastic waste to authorized recyclers



Air Emissions

IndianOil's Barauni, Gujarat, Haldia, Mathura, Paradip and Panipat Refineries and Petrochemical complexes have been certified with ISO 14064-1:2018 for inventorisation of Green House Gas (GHG) emissions in FY 2021-22. Balance refineries are in the process of obtaining the certification.



Biodiversity & Wildlife Conservation

Rhino Adoption

IndianOil has taken the mantle of conserving Rhinos, a critically endangered species. The company has adopted one-horned rhinos in zoological parks across the country where we provide funds towards care and upkeep of these majestic species. As a mark of its dedication to the cause and in recognition of the resonance that the species carries with the IndianOil brand, in terms of strength, speed, agility and longevity, IndianOil has adopted the great one-horned Rhino as its brand ambassador.

Rhinos adopted in Patna Zoo

Cheetah Restoration

IndianOil is playing a leading role in the restoration of Cheetah in India. The company will contribute over Rs. 50 crore in the next five years towards Project Cheetah, being taken up under the aegis of the National Tiger Conservation Authority.

A family of Cheetahs Photo Credit: Adobe Stock

Olive Ridley Turtlest

IndianOil has undertaken multiple efforts to secure the population of Olive Ridley Turtles, categorised as 'Vulnerable' in the IUCN Red List. The company has partnered with the Wildlife Department in the states of Odisha & Tamil Nadu to safely release the turtle hatchlings into the sea.

Olive Ridley Turtles released to the sea off the coast of Chennai, Tamil Nadu

Saving Elephants

IndianOil has partnered with Wildlife SOS to set up an Elephant Rehabilitation Centre in Mathura, Uttar Pradesh. The centre provides veterinary care, a nutritious diet and a clean environment to the elephants, away from the tortures of circuses or in bearing heavy loads.

Elephants peacefully residing in the Rehabilitation Centre set up at Mathura, Uttar Pradesh

Thriving Green-Belts

At IndianOil, we have regarded ecosystem protection and tree plantation as fundamental to our environmental conservation programmes. The Company's scientifically designed green belts spread across the country, serve as a pollution sink besides enhancing the aesthetics of the area. The green spaces are teeming with flora and fauna. Currently IndianOil is estimated to have a tree cover of over 25 lakh in its green belts.

Eco-park & Pond at Bongaigaon Refinery in Assam

Flourishing Birds

Flourishing eco-parks with acres of green spaces in IndianOil locations have become mini bird sanctuaries, which serve as a bio-indicator and stand testimony to the fact that industry and ecology can co-exist in harmony. During the monsoon season, birds rush to nest in large spaces of green-belts and eco-parks. More than 300 species of resident and migratory birds thrive in the Eco Parks and Green belt areas of the company.

A Streaked Spiderhunter lying in the wait at Digboi Refinery

Translocating Corals

Coral reefs are under significant threat due to climate change and pollution. The off-shore reefs at Gujarat have been identified as being particularly vulnerable. With the requirement to change the four-decade old pipelines laid offshore in Vadinar, Gujarat, IndianOil undertook a challenging task of trans-locating the corals with minimal impact on sensitive ecosystem. The project was successfully completed with the help of Zoological Survey of India.

Under water world with corals and tropical fish Photo Credit: Adobe Stock

Coastal Protection

The eastern coast of India is prone to cyclonic storms which are a great threat to humans and other flora & fauna. IndianOil planted 20+ lakh saplings in a land area spanning 122 hectares in Purba Medinipur district with the help of Forest Department, Govt. of West Bengal. The plantations include Mangroves and Casuarinas which help break high cyclonic wind-speeds, thus helping in protecting the coastal ecosystem.

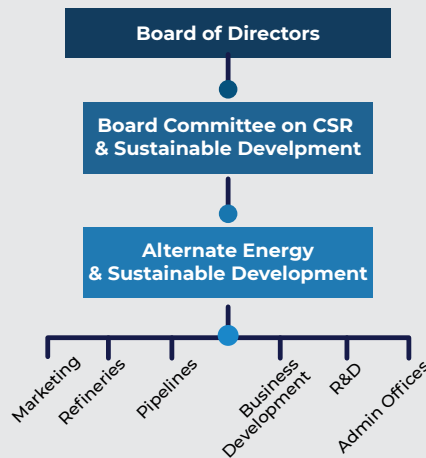
Mangrove plantation along a coastal stream Photo Credit: Adobe Stock

Empowering Employees

People are at the core of IndianOil's businesses. The Company assesses its business decisions and strategy through the lens of how they affect material stakeholders – employees, communities, supply chain operations, customers, and business partners. It aims to achieve its goal of a net zero future by developing the full potential of its internal and external stakeholders, led by its people-centric organisational culture that inspires employees, strengthens community partnerships and delivers value to customers.

Embedding Sustainability in IndianOil

IndianOil has a well-orchestrated management framework and Board-level Committees that play a guiding role in defining, progressing and monitoring the Company's sustainability journey. With the company committing to a climate target this year, a robust governance structure is being created to collate organisation-wide performance and monitor progress made on climate targets. This would involve Board level reporting and oversight.



Employees at a Glance

31,254

Permanent Employees

82,759

Temporary workforce

8.69%

Women employees

Zero

Mean Gender Pay Gap

7,79,229 hrs

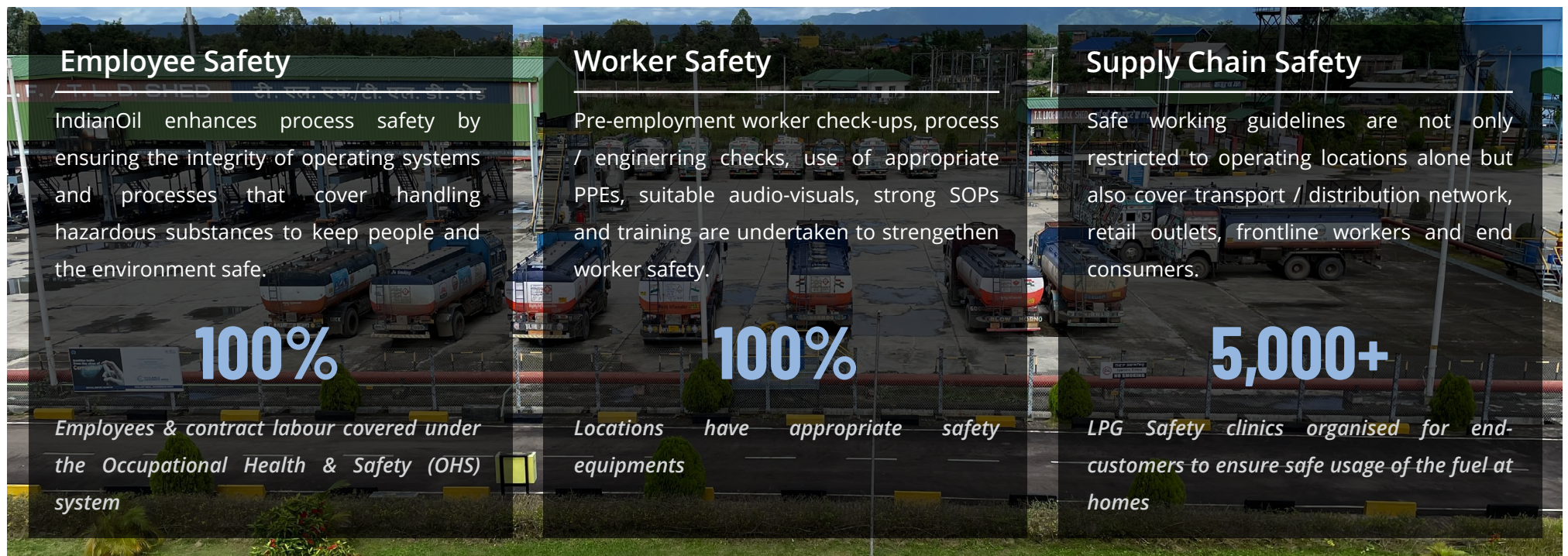
Training provided to employees

24.93

Avg. training hours per employee

Workforce Health & Safety

Employee Health and Safety is one of the core sustainability priorities identified for IndianOil since inception and had a special focus in FY 2021-22. The pandemic unfolded a plethora of mental health issues and impaired quality of life. During these challenging times, IndianOil has reinforced the Company's priority on the physical as well as mental safety of its workforce. The Company launched and implemented an occupational health services (OHS) portal across all refinery occupational health centres and divisions for effective health surveillance and environmental monitoring across the Corporation. The data is utilised for real-time monitoring of occupational health activities for prevention and control.



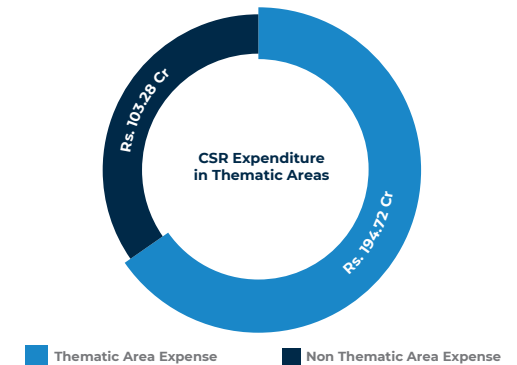
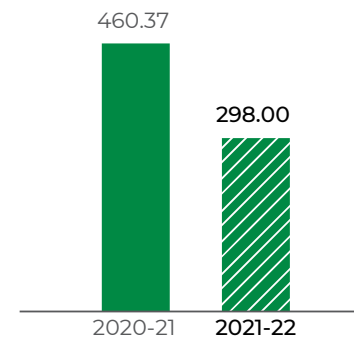
Community Development

IndianOil's CSR objective is enshrined in its Vision and Mission statement

"...to help enrich the quality of life of the community and preserve ecological balance and heritage through a strong environment conscience..."

As a responsible public sector enterprise, IndianOil has supported close to 500 life-changing community development projects to positively impact numerous stakeholders. Impact assessments are also undertaken for projects with a single-location investment of more than ₹ 50 lakh per year. IndianOil spent ₹194.72 crore (65% of Total CSR expenditure) on various thematic areas identified in compliance with the Department of Public Enterprises (DPE) guidelines for CSR Expenditure by Central Public Sector Enterprises (CPSE).

CSR Expenditure (in Rs. Cr)



- 1. IndianOil Vidushi
- 2. IndianOil Gyanodaya Scheme
- 3. Skill Development Institute, Bhubaneswar

Education & Skill Development

- 1. Aarogyam Scheme
- 2. Molecular Pathology Lab, Varanasi
- 3. Swarna Jayanti Hospital, Mathura

Health & Nutrition

- 1. Badrinath Dham
- 2. Varanasi Ghat

Art & Culture

- 1. Lung of the city Initiative
- 2. Lake cleaning drive
- 3. Biogas Plants at Jaipur & Gorakhpur

Environmental Sustainability



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