



About

Indian Dif

IndianOil, a Maharatna PSU under the Ministry of Petroleum and Natural Gas, is India's foremost integrated energy conglomerate. As a leader across the entire hydrocarbon value chain, we are dedicated to delivering sustainable and affordable energy solutions that steer the nation's energy landscape. Beyond conventional operations, our commitment extends to diversification into alternative energy sources, where cutting-edge technologies drive our pursuit of innovation and corporate responsibility. This includes a global presence focused on prioritizing sustainability and aligning with the United Nations Sustainable Development Goals, IndianOil stands at the forefront of shaping an eco-conscious future, contributing to responsible energy solutions for India and the global community.





Fuelling a Sustainable Future

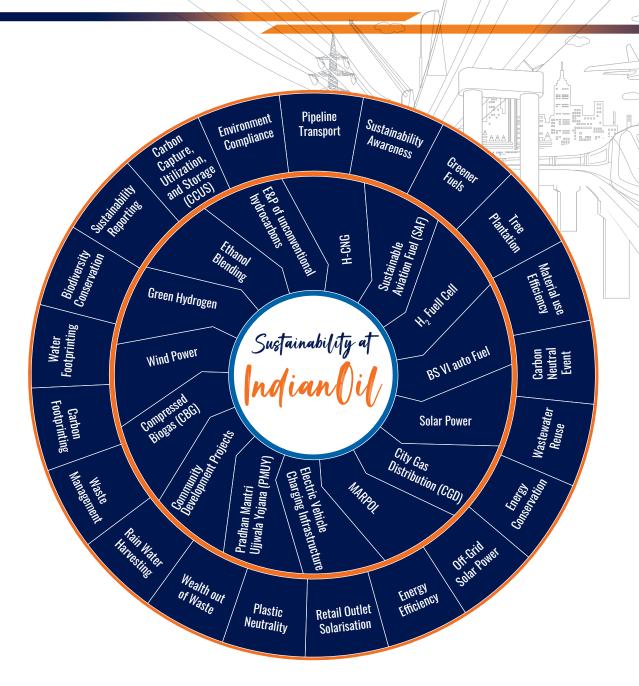
Welcome to the IndianOil Sustainability
Highlights for the fiscal year 2023-24. At
IndianOil, we firmly believe that sustainability
is not just a choice; it's our responsibility
towards our planet and future generations. In
these pages, we take you on a journey through
our commitment to sustainability, showcasing
our achievements and setting our vision for a
greener and more sustainable world.

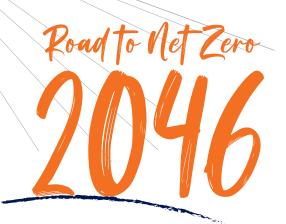
"Our story of success is not written in letters of gold, but in green, as we march towards our goal of achieving net zero operational emissions by 2046. To realize this vision, we have committed to undertake an investment of over ₹2 lakh crore."

sd/-Shrikant Madhav Vaidya (Chairman)











Accelerating towards





Transparent and accurate accounting of GHG emissions



Achieve Net-Zero operational emissions



Renewable Energy -Sourcing renewable power for expnasion of refineries



Low Carbon
Technologies - Invest
in technology and
partnerships for
developing low carbon
energy solutions



Value Chain Emission - Engage with value chain partners to reduce emissions



Enhancing Green
Portfolio - Meet Increased
Consumer Demand for
greener fuels in the
product mix



Fostering Sustainable Practices



Establish IndianOil as a leader in environmental sustainability









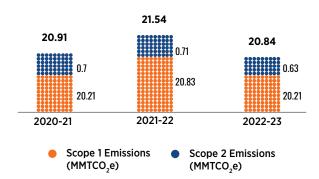




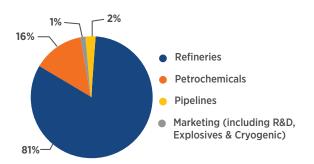
Transparent Accurate Accounting of

GHG Emissions

Emissions (Scope 1 & Scope 2)



Emission Contribution by Business Units



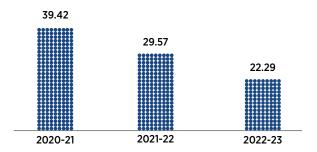
20.21 MMTCO,

Total Scope-1 Emissions

0.63 MMTCO₂e
Total Scope-2 Emissions

301.50 MMTCO₂e
Total Scope-3 Emissions

Emission Intensity



Emission Intensity (MTCO₂e/ ₹ Crore)







Acheive Net-Zero

Operational Emissions

Energy Conservation Projects (ENCON)

The energy conservation (ENCON) projects implemented in refineries and petrochemical plants during the reporting period have the potential to save 2,55,379 Standard Refinery Fuel Tonnes (SRFT) in refinery complexes. A total of 0.81 MMTCO₂e emissions were avoided by implementation of these projects

Green H, Captive

We are establishing a cuttingedge 10 KTA Green Hydrogen Plant at Panipat Refinery. Furthermore, we have set up India's first Hydrogen dispensing station at our R&D Centre in Faridabad, NCR, followed by a station in Gujarat Refinery, to promote hydrogen mobility. 3.80 MMTCO2

Total Emissions Avoided/Offset in FY 2022-23

119

Energy Conservation Schemes

2,55,379 SRFT/ Mean

Energy Saving

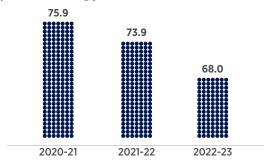
₹840 Crore/ Year Monetary Savings

Cumulative number of non-LED lights replaced with LED

0.06 MMTCO26

Emission reduced from LED lights by replacement of conventional lights

Specific Energy in Refineries (MBN)



Reduction in Energy Intensity Index (Refineries) from **104.1** in **FY 2021-22** to **96.1** in **FY 2022-23**

¹ MBN is the short-form for MMBTU of Energy consumption/ Billion Barrel of Crude processed / NRGF (Refinery complexity factor)





₹582.80 crore

Investment in renewable energy and greening efforts

167.6 mw

Wind Capacity

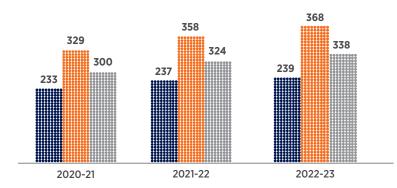
71.10 MW

Solar Photovoltaic (PV) Capacity

 $0.34\,\mathrm{MMTCO}_{2}$ e

Emission avoided through Renewable Energy Generation





- RE Installed Capacity (MW)
- Total RE Generation (GWh)
- Emissions avoided (MTCO₂e)







| Setting-up Compressed Bio Gas plants at various locations

| Strive to achieve target of blending 2% Bio fuels in Aviation Turbine Fuel (ATF) by 2030

Compressed Bio-Gas Plants
Commissioned, offering Biogas through 46 Indigreen outlets

Sustainable Aviation Fuel Plant setup in Panipat

EV Charging stations installed in our Retail Outlets (Ros)

Battery Swapping Stations installed in our Retail Outlets (Ros)















Sustainability

Our strategic focus on digitalization, low-carbon transportation, strategic storage, energy efficiency and renewable power utilization across value chain with a focus on responsible sourcing of material.

93

No. of vendor development programs organized

29.21%

Total Procurement from MSMEs

0.35%

Procurement from Women owned MSMEs

24 Start-Upg

Incubation under start-up funding scheme

0.86%

Procurement from SC/ST MSMEs

17.564 km

Pipeline Network

Solarisation of Retail Outlets

1,490 _{70s}

Solarised in FY 2022-23

159.10 GWH

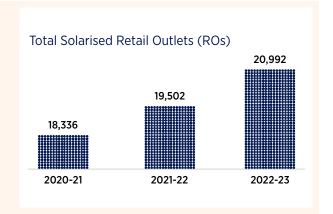
Power generation

123.4 MW

Installed capicity

1.17 MMTCO2e

Emission avoided







low-carbon energy solutions

- In line with India's goal of achieving Net-Zero emissions by the year 2070. IndianOil has committed to achieve Net-Zero operational emissions by 2046.
- I Committed to undertake a CAPEX expenditure in excess of ₹2 Lakh Crore
- IndianOil has embraced towards development of green energy portfolio of 200 GW of renewable energy, 7MMT of biofuels and 9 MMT of biogas by the year 2050.



Establish IndianOil as a

leader in environmental sustainability

- Promoting entrepreneurship to set up CBG plants for automotive and industrial fuels.
- I Joined hands with ReNew Power and Larsen & Toubro (L&T) Limited to strengthen the green hydrogen ecosystem in India.
- Formed a Joint Venture with Praj Industries Ltd. To develop SAF and other biofuels.
- Collaboration with SJVN Limited for expanding the renewable bouquet.
- I Signed MoU with LanzaJet to explore Sustainable Aviation Fuel production using ATJ technology.





1,646
Cumulative No of Patents filled

1,554Effective Patents

127
Cumulative Patents filled in FY 2022-23

Cumulative Patents granted in FY 2022-23





Sustainable Practices

₹264.03 Crore

CSR Expenditure

₹2,40,185

Contribution Made to Exchequer

0.081

Lost Time Injury Frequency rate

83,398

Safety Clinics organised for LPG Customers

52,000

Eye Tests conducted for Tank Truck drivers who deliver our products

31.095

Permanent Employee

7,75,868 hr

Hours of Training provided to employees

90%

Hires below 30 years of age

1,455

New Hires

70%

Increase in women hire

Enhancing workforce skillsw

Madhyama, Saarthi, Harvard Manage Mentor, Executive MBA, Swadhyaya, Pratidhwani

9.25 Laths

Swadhyaya Courses Completed

4,62,669

Hours of traning under Swadhyaya

17,388

No. of Employees

1,882

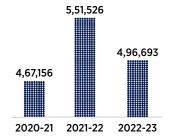
No. of courses covered under Swadhyaya



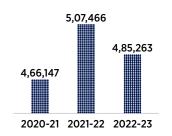
Waste Management & Circular Economy

IndianOil employs robust waste management strategies, minimizing waste generation and enhancing recycling efforts. Our initiatives aim to reduce our environmental footprint and promote responsible resource use

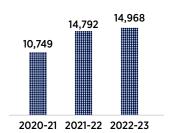
Total Waste Generated (MT)



Total Waste Recycled (MT)



Total Waste Disposed (MT)



Introducing 'Unbottled' - Our Green Initiative

This ambitious undertaking is projected to contribute to the recycling of 20 million PET bottles.







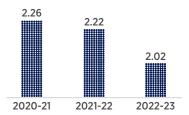
Water

Stewardship

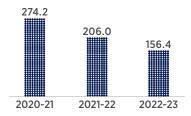
IndianOil is committed to responsible water stewardship. We optimize water use, minimize wastage, and employ advanced technologies for water efficiency. Our recycling and treatment systems ensure high water quality, reducing our environmental impact and conserving precious resource.

Specific Water Consumption

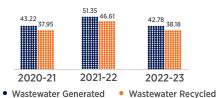
Specific Water Footprint (KL/ MT Crude Throughput)



Water Intensity (KL/ Turnover in `Crore)



Wastewater generated & Recycled (billion litres)



146.9 Billion Litres
Total Water Consumption

Year-on-year reduction in specific water consumption

38.18 Billion Litres
Recycled Wastewater Usage

103.40 Billion Litres
Freshwater Consumption

5. Billion Litres
Total Wastewater Discharged in FY 2022-23

2,900 hectares

Catchement area covered in FY 2022-23

7.2 Billion Lifres
Total Rainwater Harvesting Potential during FY 2022-23





Biodiversity

Conservation

Biodiversity conservation is integral to IndianOil's sustainability mission. We actively protect and restore ecosystems, promoting biodiversity in our operational areas. Through responsible practices, we minimize our environmental footprint and support a healthier planet.

Afforestation & Greenbelt Development

In FY 2022-23, we have planted approximately 6.6 Lakhs trees within and beyond the boundaries of IndianOil and over 50 Lakhs trees are estimated to be surviving at the end of FY 2022-23.

Van Mahotsav

IndianOil actively participates in the Van Mahotsav week celebrations every year. Last year during this event, we took a significant step towards greening India by planting around 50,000 trees.

Miyawaki Afforestation

In the FY 2022-23, we have made remarkable strides in environmental conservation by planting approximately 3.6 lakhs trees using the innovative Mivawaki afforestation method. as well as other traditional methods.



Tiger Conservation

The protection and conservation of tigers hold significant importance in preserving India's rich biodiversity and natural heritage.





Rhino Adoption

IndianOil's commitment to wildlife conservation extends to the protection and support of critically endangered species like the Indian one-horned Rhino.

Project Cheetah

IndianOil's dedication to wildlife conservation. As the first corporate entity to partner with the National Tiger Conservation Authority (NTCA), we played a major role in the ambitious initiative to reintroduce cheetahs to Indian soil.





This document may be read together with our Sustainability Report FY 2022-23, Integrated Annual Report FY 2022-23 and our website.



IndianOil Sustainability Report FY 2022-23



Integrated Annual Report FY 2022-23



IndianOil Website



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