



IndianOil

# Catalysing a Sustainable Shift

SUSTAINABILITY STORIES

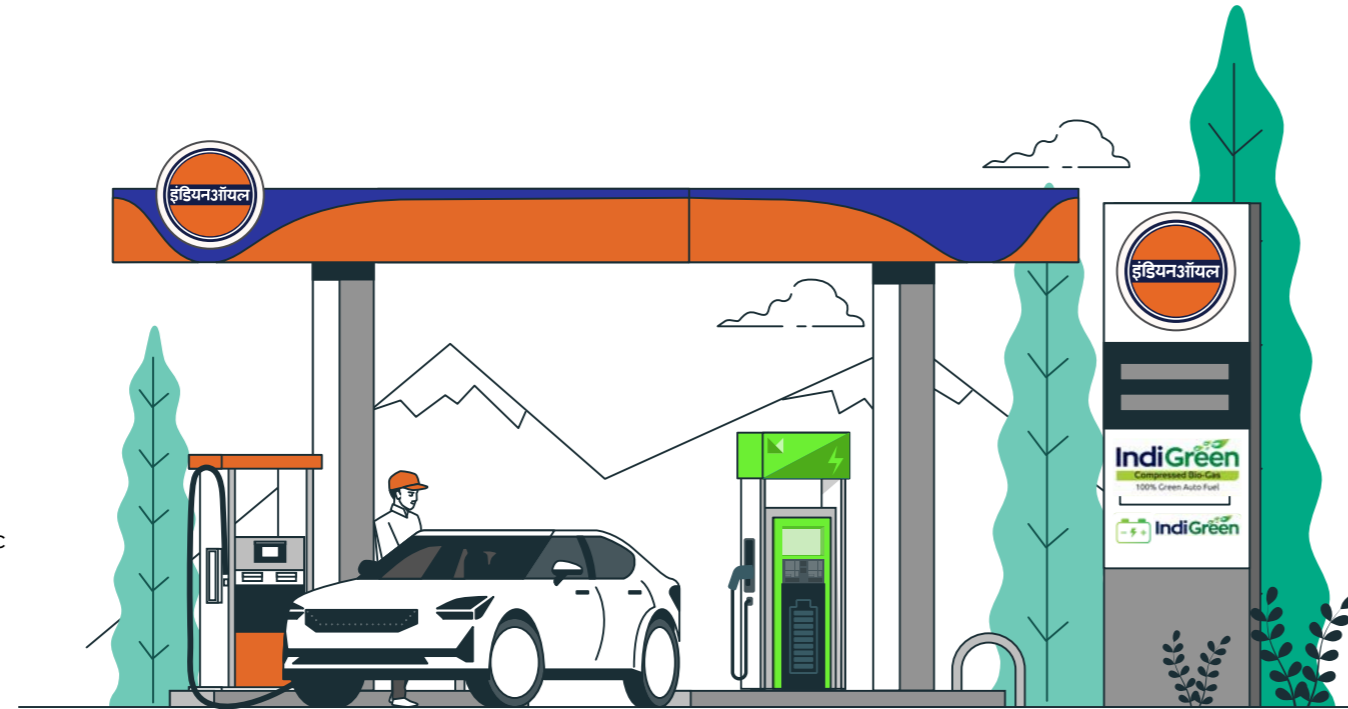


## About IndianOil

IndianOil is India's largest integrated energy company and a key player in the energy sector. Founded in 1959 under the Ministry of Petroleum and Natural Gas, IndianOil holds the prestigious "Maharatna" status. With a comprehensive presence across oil, gas, petrochemicals, and alternative energy, we manage the entire hydrocarbon value chain—from exploration and production to refining, marketing, and distribution of petroleum products.

Recognized in the Fortune "Global 500," we are dedicated to providing sustainable and affordable energy solutions. Our guiding philosophy, "Pehle Indian Phir Oil," underscores our commitment to India's development and energy security, reinforced by our expanding international operations in regions like Sri Lanka, Mauritius, and the UAE.

While our core operations remain focused on conventional energy, we are also pioneering advances in alternative energy technologies. Sustainability is embedded in our business strategy, and we actively contribute to the United Nations Sustainable Development Goals (UN SDGs), ensuring that economic growth is harmonized with environmental protection and social progress. Our global presence drives us to lead the way toward a sustainable energy future for both India and the world.



## Catalysing a Sustainable Shift



Welcome to the IndianOil's Sustainability Stories. Sustainability forms the foundation of our values and operation. It is not just a concept but a driving force behind every decision. We are proud to share the progress we've made in our commitment to building a more sustainable future.

At IndianOil, we integrate responsible practices across our operations to drive positive change, focusing on areas such as waste management, renewable energy, wildlife conservation, and water management, ensuring a long-term commitment to environmental stewardship. We also prioritize empowering communities and employees by creating opportunities for personal growth and social transformation. Through innovative solutions and mindful practices, we aim to create lasting positive impacts on the planet, ensuring a healthier world for future generations.

“  
Our unwavering commitment to a sustainable future drives us to achieve our ambitious 2046 net-zero goal, backed by over ₹2.5 Lakh Crore investment.”

A S Sahney  
Chairman, IndianOil

# Sustainability at IndianOil



Pipeline Transport  
City Gas Distribution (CGD)

Pradhan Mantri Ujjwala Yojana (PMUY)  
Community Development Projects  
Sustainability Report  
Sustainability Awareness  
Environment Compliance

Tree Plantation  
Biodiversity Conservation  
Carbon Neutral Event  
Carbon Footprinting  
Carbon Capture, Utilization, and Storage (CCUS)

Rainwater harvesting  
Water Footprinting  
Wastewater Reuse  
Waste Management  
Plastic Neutrality



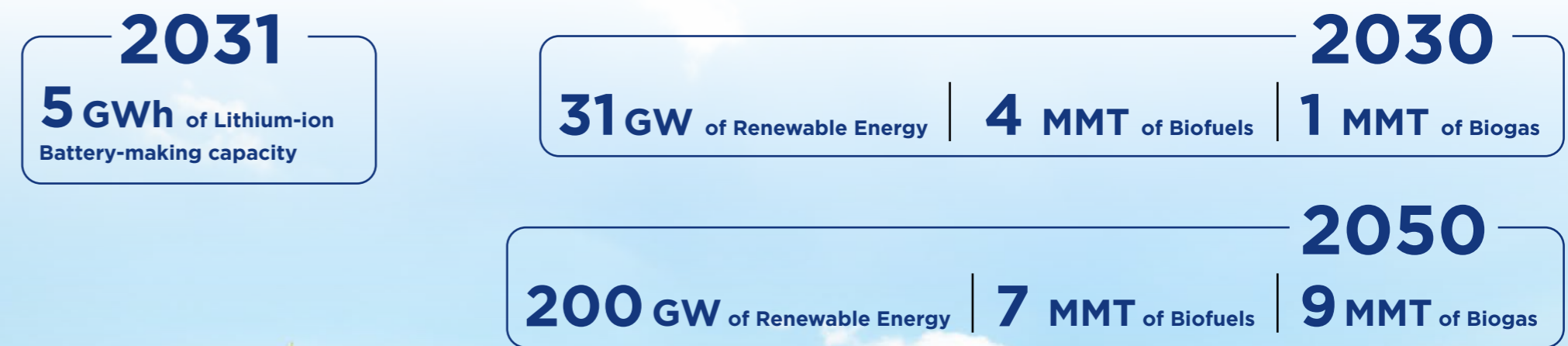
Ethanol Blending  
H-CNG  
Liquefied Natural Gas (LNG)  
Compressed Biogas (CBG)  
Green Hydrogen  
Greener Fuels  
H2 Fuel Cell  
BS VI auto Fuel

Electric Vehicle Charging Infrastructure  
Energy Efficiency  
Material use Efficiency  
Solar Power  
Wind Power  
Retail Outlet Solarisation  
Off-Grid Solar Power

# Accelerating towards Net-Zero

As a frontrunner in fostering environmental sustainability, IndianOil is leading India's journey toward a low-carbon future with an ambitious pledge to achieve net-zero operational emissions by 2046. This commitment, backed by an investment of over ₹2.5 Lakh Crore, reflects IndianOil's pivotal role in reshaping the nation's energy landscape through sustainable operations.

Focused on achieving net-zero emissions, we are setting new benchmarks in environmental leadership through a multi-faceted strategy that includes:



## Unlocking Renewable Energy Potential

IndianOil's renewable energy capacity is around 247 MW comprising 168 MW from wind and 79 MW from solar installations. This underscores our commitment to expanding renewable energy deployment.

To further accelerate its renewable energy initiatives, IndianOil, through its wholly owned subsidiary Terra Clean Ltd., is set to add an additional 1 GW of renewable capacity. This expansion aligns with IndianOil's ambitious vision of achieving 10 GW of solar and 2 GW of wind power by 2046 under net-zero.

In collaboration with NTPC, we also aim to secure 650 MW of round-the-clock renewable power, ensuring a reliable and sustainable energy supply to support our growing refinery operations.



## Emerging Green Technologies & Energy Solutions

IndianOil is leading India's shift to cleaner & sustainable energy by pioneering innovative alternatives to fossil fuels and shaping a greener future.



### Compressed Biogas (CBG)

IndianOil is the lead implementation agency of SATAT (Sustainable Alternative Towards Affordable Transportation). With 31 operational Compressed Biogas (CBG) plants, IndianOil is making remarkable strides in reducing reliance on conventional fossil fuels. Through collaborations and JVs, we are establishing 30 additional CBG plants to further bolster green fuel production. We are collaborating with Agriculture Universities for undertaking multi location field trials of a biogas by-product.



### 2G Ethanol

IndianOil's Panipat 2G Ethanol Plant, the first in Asia, converts locally sourced rice straw into ethanol using indigenous technology, directly benefiting farmers, and reducing harmful crop residue burning. With a capacity to utilize two lakh tonnes of rice straw, it generates an annual yield of three Crore litres of Ethanol, destined for blending with gasoline with a reduction of approximately 3 lakh tonnes of GHG emissions.

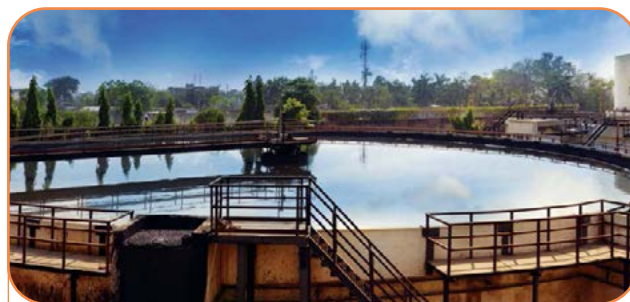


### 3G Ethanol

IndianOil has set up World's first Refinery off gas to ethanol (3G ethanol) plant at Panipat. This initiative reduces dependence on fossil fuels, promoting cleaner energy solutions for the country. With an annual production capability of 4.2 Crore litres of ethanol, the plant can contribute towards the avoidance of approximately 1.8 Lakh tonnes of GHG emissions per annum.

# Environmental Stewardship

IndianOil is deeply committed to preserving natural resources and promoting environmental sustainability through comprehensive initiatives in water conservation, biodiversity protection, and green cover restoration.



### Wastewater Reuse

To promote reduction in freshwater consumption, IndianOil refineries have implemented numerous measures aimed at minimizing freshwater consumption like recycling and reusing within our operations. Mathura Refinery reuses treated wastewater from Laxminagar STP, reducing freshwater consumption by around 50%. Further, Gujarat Refinery utilizes treated wastewater from Rajivnagar STP, achieving a 25% reduction in freshwater consumption. Additionally, the Haldia refinery has entered into an agreement with the Syama Prasad Mookerjee Port Trust for reutilization of 4 MLD treated wastewater from its STP. This model is being explored for replicating at other IndianOil refineries.



### Biodiversity Conservation

Partnering with the National Tiger Conservation Authority, IndianOil is championing the historic Cheetah relocation project. In Gujarat, we've undertaken the largest coral translocation initiative in the nation's history, moving over 16,000 corals to safe habitats.

Our conservation initiatives also extend to safeguarding iconic species like the Single-Horned Indian Rhino, the Olive Ridley Turtle, and the Royal Bengal Tiger. IndianOil, has actively supported the Sundarbans Tiger Conservation Foundation Trust to enhance patrolling efforts within the Sundarban Tiger Reserve.



### Tree Plantation

IndianOil is actively engaged in initiatives like afforestation and greenbelt development, participating in Van Mahotsav, and using Miyawaki techniques to create mini forests. The company is also exploring opportunities in the Gol's Green Credit Program for afforestation on degraded land. Our commitment to green spaces is also reflected within our refinery complexes, where we've developed ecoparks spanning more than 500 hectares. These areas serve as crucial habitats for over 300 species of resident and migratory birds, embodying our dedication to fostering biodiversity while creating sustainable industrial landscapes. We have planted more than 60 lakh trees within and beyond the boundaries of IndianOil.

# Strengthening Our Value Chain

At IndianOil, we are shaping the future of energy through our commitment to innovation and low-carbon solutions. From circular economy initiatives to green mobility, we are embedding sustainability across our value chain to drive impactful, lasting change.

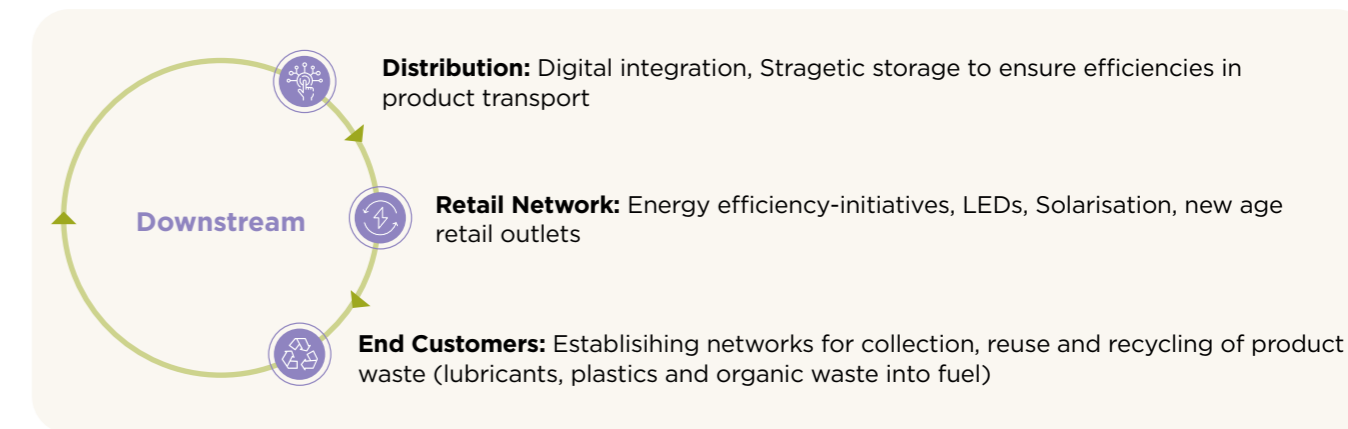
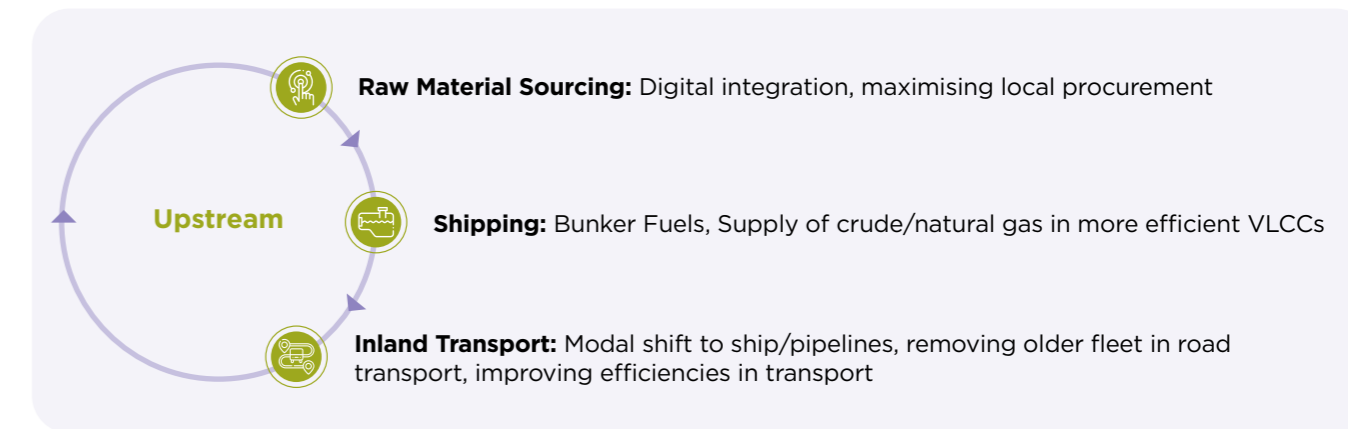
### Product Stewardship

IndianOil's CYCLOPLAST brand showcases our premium polymer recyclates, setting new standards and aligning with India's Atmanirbhar Bharat mission.

IndianOil is committed towards advancing plastic recycling efforts, including the innovative use of single-use plastic in the construction of durable bituminous roads.

We expanded our green initiatives with the SERVO PET360 container, advancing sustainability with 30% post-consumer recycled plastic.

IndianOil incorporates re-refined base oil into new products, blending it with virgin materials to create lubricants with recycled content. The company has introduced four such eco-friendly products: 'Servo 4T Green' for motorcycles, 'Servo Tractor Green' for tractors, 'Servo Green Mile' for petrol engines, and 'Servo Raftaar' for diesel engines.



## Greening the Retail Outlets with Sustainable Solutions

In line with our commitment to integrating renewable energy throughout IndianOil's value chain, we launched an ambitious solarization drive to transform our expansive network of retail outlets into models of clean energy. This large-scale initiative not only reduces our carbon footprint but also sets a new benchmark for clean energy adoption in the energy sector.



### 89%+

retail outlets solarised as of 31<sup>st</sup> December, 2024



### 34,641

total solarised retail outlets as of 31<sup>st</sup> December, 2024



### 172.5 MW

installed capacity of solar at the retail outlets as of 31<sup>st</sup> December, 2024



## Transforming Sustainable Transportation

### E-Mobility

IndianOil is driving India's transition to electric mobility with the establishment of more than 10,000 EV charging stations nationwide. Additionally, battery swapping services are available at about 100 fuel stations, providing flexible and efficient solutions for electric vehicle users.

Through its JV efforts, IndianOil is exploring opportunities to establish a lithium-ion cell manufacturing facility with an initial 1 GWh capacity by 2027, with plans to scale up to 5 GWh by 2031.

### Sustainable Aviation Fuel

Our biofuel endeavours also extend to the Aviation sector, where we are pioneering efforts to decarbonise air travel. Through strategic partnerships, IndianOil is planning to establish Sustainable Aviation Fuel (SAF) facility of an 86.8 TMTPA capacity at Panipat, utilizing Bioethanol as the feedstock, which offers supplementary carbon advantages, contributing to its sustainability.

### Green Hydrogen

IndianOil has forged strategic partnerships to strengthen the green hydrogen ecosystem in India. Our planned 10 kTPA pilot facility in Panipat will serve as a model for scalable and sustainable hydrogen production. We launched India's first fleet of 15 green hydrogen fuel cell buses in the Delhi-NCR region.

### IndiGreen

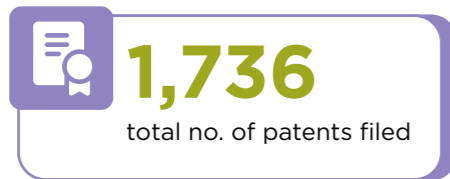
IndianOil is at the forefront of advancing sustainable mobility with its Compressed Biogas (CBG) retail brand, 'IndiGreen.' By converting organic waste into clean energy, this initiative not only supports the transportation sector's transition to greener alternatives but also plays a vital role in strengthening the rural economy. As of 31<sup>st</sup> December, 2024, IndianOil has commissioned 37 state-of-the-art CBG plants, established large-scale production facilities, and expanded its robust network to 87 IndiGreen outlets nationwide.



## Driving Sustainability Through Green Innovation

We launched 'Unbottled' uniforms, crafted from recycled PET bottles, for IndianOil's fuel station attendants and LPG delivery personnel. This eco-initiative has transformed nearly 8 million PET bottles into high-quality uniforms, with over 280,000 orders already placed.

Through partnerships, IndianOil is advancing clean energy access across India with the pioneering indoor solar cooking system both in domestic and export markets by leveraging carbon credit, CSR funds, among other means. This innovative system provides households with a sustainable, eco-friendly cooking solutions that not only reduces emissions but also improves indoor air quality. By empowering communities with accessible green energy, we are driving meaningful change towards a sustainable, cleaner future.



## Rewriting Business Principles With a Green Resolve

With its unwavering commitment to boost clean and dynamic energy solutions, IndianOil is accelerating efforts to reduce carbon footprints, optimising resources, strengthening sustainable development in all its business verticals and activities.







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