



Indian Oil Corporation Ltd.

VALUE-ADDED OFFERINGS

ACROSS THE

HYDROCARBON VALUE CHAIN

Refining • Pipelines • Marketing
R&D • Petrochemicals



On Offer:

Consultancy Services	Specialty Products
Collaborations	Specialty Technologies
Secondment Services	Petrochemical Products
Training	



IndianOil
The Energy of India



IndianOil - The Energy of India

IndianOil Corporation Limited (IndianOil) is one of India's largest commercial enterprises and the flagship national oil company invested in the full value chain of upstream, midstream and downstream hydrocarbons industry.

IndianOil's core business has been refining, transportation and marketing of petroleum products. In line with India's growing energy demand, the Company has over the years expanded its operations - upstream into oil & gas exploration & production and downstream into petrochemicals, besides diversifying into natural gas and alternative energy resources.

IndianOil continues to expand its business operations abroad through its overseas establishments in Mauritius, Sri Lanka, UAE, Sweden, USA, The Netherlands, Singapore, Bangladesh, Myanmar and Nepal.




US\$ 85 billion
(₹6060 billion)
Revenue 2018-19



33,498
Employees



117th Rank
Fortune
"Global 500 List" 2019

Business Coordinatates



Joint Ventures

- Avi-Oil India Pvt. Ltd.
- Delhi Aviation Fuel Facility Pvt. Ltd.
- Green Gas Ltd.
- GSPL India Transco Ltd.
- GSPL India Gasnet Ltd.
- Hindustan Urvarak and Rasayan Ltd.
- IOT Infrastructure & Energy Services Ltd.
- IndianOil Adani Gas Pvt. Ltd.
- IndianOil Petronas Pvt. Ltd.
- IndianOil LNG Pvt. Ltd.
- IndianOil Skytanking Pvt. Ltd.
- Indian Synthetic Rubber Pvt. Ltd.
- Kochi Salem Pipelines Pvt. Ltd.
- Lubrizol India Pvt. Ltd.
- Mumbai Aviation Fuel Farm Facility Pvt. Ltd.
- NPCIL - IndianOil Nuclear Energy Corporation Ltd.
- Petronet LNG Ltd.
- Ratnagiri Refinery & Petrochemicals Ltd.
- Suntera Nigeria 205 Ltd.

IndianOil around the World

Overseas Subsidiaries

- IOC Middle East FZE, Dubai, UAE
- IndianOil (Mauritius) Ltd., Mauritius
- Lanka IOC PLC, Colombo, Sri Lanka
- IOC Sweden AB, Sweden
- IOCL (USA) Inc., USA
- IndOil Global B.V., Netherlands
- IOCL Singapore Pte. Ltd.

Indian Subsidiary

- Chennai Petroleum Corporation Ltd.

Exploration & Production (E&P) Assets

- India
- USA
- Oman
- Venezuela
- Canada
- Russia
- UAE
- Libya
- Gabon
- Nigeria
- Israel

Representative / Branch offices

- Myanmar
- Bangladesh
- Nepal

The Energy of India

Operating Refineries	11
Oil Depots & Terminals	125
Aviation Fuelling Stations	116
LPG Bottling Plants	91
Lube Blending Plants	10
R&D Centre	1
Pipeline Terminals	88
Fuel Stations	27,700
LPG Distributors	11,964

Business Profile

Refineries



- Owns 11 refineries
- Capacity : 80.70 MMTPA (1.6 million barrels/day)

Pipelines



- Crude oil and product pipelines : 14231 km
- Throughput: 94 MMTPA for liquid fuels, 22 MSCMD for gas

Marketing



- 27,700 fuel stations (Sales: 89.89 MMTPA; Exports: 5.24 MMTPA)
- 12,000 LPG Distributors; 91 LPG Bottling Plants
- 7000 dedicated pumps for bulk consumers
- 116 Aviation Fuel Stations
- 125 Terminals / Depots

Petrochemicals



- Sales 2.64 MMTPA
- 100% capacity utilisation of plants

Natural Gas



- 5 MMTPA LNG import terminal at Ennore on east coast
- City Gas Distribution in 40 geographical areas

Exploration & Production



- Overseas E&P portfolios in 10 countries
- Upstream Integration Ratio of 5.5%

Alternate Energy & Sustainable Development



- Installed Renewable Energy Capacity of 222MW (Solar & Wind)
- Making forays into Automotive Grade Compressed Bio Gas (CBG)

Research & Development



- 794 active patents
- R&D expenditure (US 61 million per annum)

MMTPA = Million Metric Tons per Annum, MSCMD = Million Standard Cubic Meters per Day

Consultancy and Expert Services

IndianOil offers its services in the areas of technical consultancy in Refinery Operations, Turnaround Maintenance Planning & Execution, Production Planning, Debottlenecking Studies, Yield Optimisation & Energy Conservation in refining operations, integrated Health Safety & Environment Management, ISO / OSHAS Management systems, Process Revamp Study, Crude / Product Pipelines, Marketing Infrastructure, etc. in addition to providing specialised training services in the areas of downstream hydrocarbon sectors.

Refineries

- Technical services like process optimisation, technology upgradation, trouble-shooting, production planning, etc
- Configuration study of oil refinery
- Operation & Maintenance planning, commissioning of process units, shutdown planning & monitoring, etc.
- Inspection services, material failure analysis, health assessment of static equipment, etc

Marketing

- Concept to commissioning of automated product storage terminals, LPG bottling plants, lube blending plants, etc.

Pipelines

- Technical Services like conceptualisation, design, engineering, project management, operation, maintenance, etc.
- Intelligent Pig Surveys (IPS)
- Operation & maintenance

R & D

- Crude oil evaluation
- Performance evaluation of fuels and lubricants
- Plant simulation and optimisation
- Material failure analysis



Collaborations

With the vision of becoming The Energy of India and a Globally Admired Company, IndianOil is open to collaborations with reputed companies in order to derive synergy in its core business areas.



Collaboration in Oil & Gas Infrastructure - Storage Terminals, Lube Blending Plants, LPG Bottling Plants, etc.

Collaboration in retail network for auto fuels

Collaboration in trading of products

Collaboration for investments in Petrochemical Projects

Secondment Services

IndianOil employs the best engineers of the country. They get structured training and ample learning opportunities from in-house work experience expertise. We provide experienced engineers for secondment services in various fields such as :

Commissioning activities

Manning shut-downs

Routine operation and maintenance



Secondment services of engineers

Training Services



Building competencies through training is one of the core strengths of IndianOil. IndianOil nurtures a network of learning centers across the country with modern amenities.

IndianOil Institute of Petroleum Management at Gurugram – an apex learning centre for nurturing leadership-conducts advanced technical and management programmes. It is a one-of-its-kind Institute in the petroleum sector in India. Since 1995 it has imparted training to many overseas business clients like Petronas (Malaysia), Nigerian National Petroleum Company, among others.

IndianOil Management Academy at Haldia – a well established training centre for conducting knowledge-based programmes.

All refinery locations and all major offices also have training centres.

Trainings on Refinery topics

- Process technologies of various units like distillation, hydrocracking, fluidised catalytic cracking, reforming, isomerisation, delayed coking etc.

Process simulation and modelling

- Process design of columns, pumps, vessels, heat exchangers etc.
- Operation and maintenance of rotary equipment
- Health, safety and environment

Trainings on Pipelines topics

- Pipeline design, engineering, construction and commissioning
- Operations and maintenance of mainline engines, pumps and pipelines
- Pipeline integrity management

Trainings on R&D topics

- Simulation and operation of refining processes
- Evaluation of crude oil
- Tribology and engine testing

..... and many more tailor made training programs



Our Specialty Products



NANOCUT - an additised LPG, which is cost effective, work efficient and safer alternative in metal cutting



Bulk Explosives for mining- 4th Generation Emulsion Technology with technical support of IRECO Inc. USA



CRYOCAN - Containers for cryopreservation of vaccines, stem cells; storage and transportation of liquid Nitrogen, etc.



AYSWARYAM organic manure - produced through anaerobic digestion and aerobic composting rendering it a superior quality and advantages over conventional manure.



Our Specialty Technologies

Our R&D lends backend support in the form of proprietary research and commercialisation capabilities in Lubricants, Catalysts, Refinery Processes, Pipeline Operations, Renewable Energy, etc. Various projects related to methanol blended fuels, biomethanation technology, pipeline inspection, H-CNG, nano-additised LPG, niche polymer grades, etc., have been successfully undertaken by IndianOil R&D.

Cutting-Edge technologies developed by IndianOil R&D:

- **INDMAX Technology** – Maximizes light olefins / LPG for integration with Petrochemicals and high octane gasoline. This is licenced worldwide by Lummus.
- **Octamax Technology** – Produces high-octane gasoline blending components
- **iPIG Technology** – Instrumented Pipeline Inspection Gauge monitors pipelines and assesses their health & reliability. Available in sizes 10” to 28”



- **Biomethanation Technology** – Converts organic wastes to biogas using patented bio inoculants. It gives over 80% methane content leading to better heating value, higher burning efficiency.
- **ETP Bio-inoculant Technology** – Highly cost effective and quick solution to enhance performance of ETP. The novel bio-inoculant has the ability to degrade oil and grease, phenols and sulphides.
- **H-CNG Technology** – A single-step compact reformer technology wherein H-CNG blends are produced at 25% cheaper cost as compared to conventional physical blending cost.



'Innovation'

being one of the core values of IndianOil, the Company believes that Innovation is the key to being the market leader in oil & gas sector in the country

Petrochemical Products



Delivering 100% trust and 100% value through our **PROPEL** brand petrochemical products finding applications in packaging, automobiles, agriculture, consumer electronics and healthcare industries.



Petrochemicals

Products: Olefins like Ethylene, Propylene and Aromatics like Paraxylene, Benzene and Toluene
Uses: Industries such as automobiles, electrical wires, medical devices and food packaging.

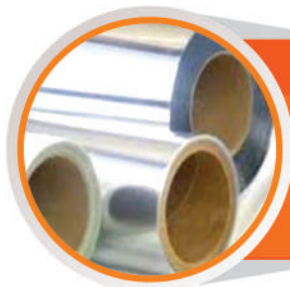
Carbons

Products: Pet-coke, Carbon Black Feedstock (CBFS) and Synthetic Rubber
Uses: Support industries engaged in production of tyres, printing inks, plastic colourants, cement, etc.



Optical Films

Products: PTA and MEG
Uses: Production of optical films such as bi-axial oriented polyester film featuring well-balanced characteristics to improve the visibility of touch panels.



Food Packaging, Industrial & Medical Films

Capability to tweak characteristics and produce grades with added functionalities for specialty food & medical packaging, electronic parts, automobiles and building materials.



Fibres & Textiles

Products: PX/PTA
Uses: **PROPEL** grades can be used for active wear, interiors and industrial applications



PP Composites and Function Mouldings

Product: Polypropylene (PP)
Uses: To produce products such as aluminum composite material, plastic film-laminated steel sheets, building materials, partitions, sports goods, industrial use plates, etc.





IndianOil

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