

Indian oil & gas market analysis

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Abstract

The Indian Oil & Gas industry Sector is developing rapidly and playing an important role for the development of Indian economy. International Market depends on Oil & Gas Sector measure in Barrel/Litre. Also, on the other hand, Indian Market truly depends on the International Market. International Market Exporting to India and Indian Market Importing to International Market. Indian Government taking initiative towards Sustainability, Adaptability, Accessibility and Energy Security through Energy Laws, Rules, Policy and Regulations to balance the GAP between Indian Upstream, Midstream and Downstream Market. It should be noted that, Marketing, Distribution and Retailing Sector achieving challenges in India and Outside India.

Keywords: Oil & Gas sector, Production & Exploration, Refining, Marketing, Distribution, Retailing.

Introduction

The Indian Oil & Gas industry can be divided into three Sub Industry, namely Upstream, Midstream and Downstream. The Upstream industry deals with Exploration & Production Sector. The Midstream industry deals with Storage, Transportation and Processing Sector. The Downstream industry deals with Process Oil Refineries, Petrochemical Units Operation, Petroleum Products Distributors, and Retailing. The downstream industry sector providing customers with a number of products such as Gasoline, Diesel, Jet Fuel, Heating Oil, Asphalt, Lubricants, Synthetic Rubber, Plastics, Fertilizers, Natural Gas.

Table 1: Indian Industry Segments and Leading Players in Oil & Gas

Segment1: Upstream	
Leading Players in Oil Industry	Leading Players in Gas Industry
ONGC, OIL, RIL, ESSAR, Cairn, BG Energy, and Shell Oil	ONGC, OIL, Cairn and OIL
Segment2: Midstream	
Leading Players in Oil Industry	Leading Players in Gas Industry
RIL, MRPL, IOCL, BPCL, HPCL, and Essar Oil	GAIL, GSPL, Shell, PIL
Segment3: Downstream	
Leading Players in Oil Industry	Leading Players in Gas Industry
IOC, BPCL, HPCL, RIL, Shell, BP, ESSAR	GGCL, GSPC Gas, IGL, MGL, MNGL, SGL, GAIL Gas, Bhavnagar gas, Adani gas

Oil value chain (sector flow chart)

The Oil Value Chain (Sector Flow Chart) shows Upstream and Downstream Sector. Starting with Crude Oil Exploration and Production (Upstream) and then transformed in refineries and finally marketing to retail customers (Downstream) (Fig. 1).

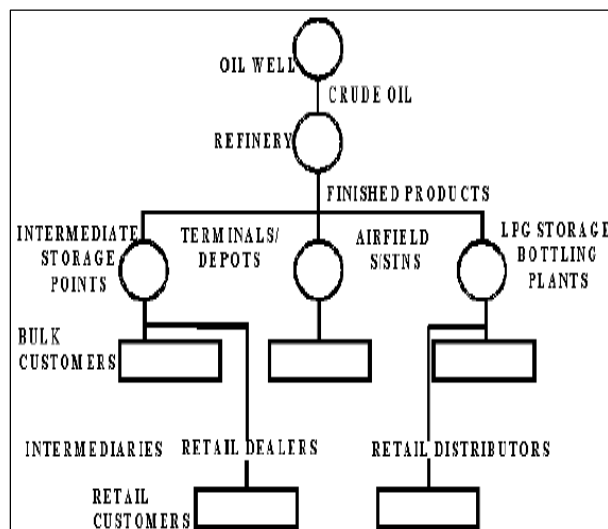


Fig. 1: Oil Value Chain (Sector Flow Chart)

"Petroleum, oil, gas, refineries" companies in india

In India there are total 420 Petroleum, Oil, Gas, Refineries Companies located in 57 cities. By comparing the type of Industry there are total 63 companies dealing with this sector and 98 companies sub industry type. Industry and Sub Industry deals with Gas Products, Production, Storage, Distribution, Marketing, Designing, Services, Exploration, Equipment's, Mineral, Metal, Mining, Petroleum, Oil, Gas, Refineries, Chain, Publishing, Printing, Iron, Steel, Export, Import, Houses, Packing, Transport, Chemical, Construction, Infrastructure, Food, FMCG, Agriculture, Garments, Textile, Pharmaceuticals, Lab, Engineering, Courier, Logistics, Supply, Power, Energy, Telecommunication, Mobile, Security, Safety, Facility Management, Electrical, Electronics, Goods, Machines, Hotels & Restaurants, Paper, Automobile, Auto Dealers, Capital, Shipping & Marine, Marble, Stone, E-Commerce, Training, Hospitals, HealthCare, Accessories, SMEs, Warehouse.

Location wise, Agartala (1), Ahmedabad (9), Ambernath (2), Andhra Pradesh (7), Assam (4), Bangalore (13), Bengal

(2), Bhopal (1), Bihar(1), Bina (1), Chandigarh (1), Chennai (20), Coimbatore (1), Dadra & Nagar Haveli (2), Dehradun (2), Delhi (24), Faridabad (1), Gandhinagar (1), Ghaziabad (1), Goa (3), Gujarat (47), Gurgaon (9), Guwahati (1), Haryana (24), Himachal Pradesh (1), Hinganghat (1), Howrah (1), Hyderabad (14), Indore (5), Jaipur (2), Jammu (1), Kalyan (1), Kanpur (2), Karnataka (1), Kerala (4), Kochi (1), Kolhapur (1), Kolkata (22), Lucknow (1), Mangalore (3), Moradabad (1), Mumbai (116), Nagpur (3), New-Delhi (14), Noida (17), Orissa (3), Pachora (1), Pune (14), Punjab (3), Raigad (1), Raipur (1), Rajasthan (2), Ranchi (2), Sangli (1), Secunderabad (1), Tamil Nadu (3), Trichy (1), Uttaranchal (1), Vadodara (1).

Indian oil & gas central public sector companies

There are total 14 Oil & Gas Central Public Sector Companies undertaking in India. Their status includes Maharatnas (ONGC, IOCL, HPCL, GAIL, and BPCL), Navratnas (EIL and OIL) and Miniratna (CPCL, MRPL, NFL, NRL, ONGC-V, RCF, and RFCL).

City gas distribution (CGD) companies in india

City Gas Distribution (CGD) is the fastest-growing end-user segment in India's Oil & Gas, LNG market. It is basically an integral part of the country's economic development. The Government of India has laid the foundation for the ninth bidding for city gas distribution (CGD) projects recently promoting natural gas as a fuel/feedstock across the country to move towards a gas based economy.

Till Now in India there are total 186 CDG companies located in 188 cities in India. Location wise Ahmedabad (1), Ahmednagar & Aurangabad (1), Ajmer, Pali and Rajsamand (1), Allahabad (2), Alwar (1), Ambala & Kurukshetra (1), Amethi, Pratapgarh & Raibareli (1), Amritsar (1), Anand (1), Anantapur and YSR (1), Angul and Dhekanal (1), Anuppur, Bilaspur and Korba (1), Araria, Purnia & Katihar (1), Arwal, Jehanabad & Bhojpur (1), Ashoknagar (1), Aurangabad, Kaimur, Rohtas (1), Azamgarh, Mau and Ballia (1), Bagalkot, Koppal & Raichur (1), Bagpat (1), Balasore & Bhadrak (1), Balliari & Gadag (1), Banaskantha (1), Bareilly (1), Bargarh & Sambalpur (1), Barmer, Jaisalmer & Jodhpur (1), Barwala & Ranpur Talukas (1), Basti and Ambedkarnagar (1), Begusarai (1), Belgaum (1), Bengaluru Rural and Urban (1), Bhadradi Kothagudem (1), Bhatinda (1), Bhavnagar (1), Bhiwani & Charkhi Dadri (1), Bhopal & Rajgarh (1), Bidar (1), Bijnor & Nainital (1), Bilaspur, Hamirpur & Una (1), Bilwara and Bundi (1), Bokaro & Hazaribagh (1), Bulandshahr (1), Burdwan (1), Cachar & Hailakandi (1), Chandigarh (1), Chatra and Palamu (1), Chennai & Tiruvallur (1), Chikkamagaluru & Hassan (1), Chitradurga & Devangere (1), Chittoor, Kolar and Vellore (1), Chittorgarh (1), Coimbatore (1), Cuddalore, Nagapattinam (1), Dadra Nagar Haveli (1), Dahej Vagra (1), Dahod (1), Dakshina Kannada (1), Daman (1), Dehradun (1), Dewas (1), Dhar (1), Dharwad (1), Dholpur (1), Diu & Gir Somnath (1), East Godavari (1), Ernakulam (1), Faizabad & Sultanpur (1), Farrukhabad, Etah & Hardoi (1), Fatehgarh Sahib (1), Ferozepur & Faridkot (1), Ganjam, Nayagarh &

Puri (1), Gaya & Nalanda (1), Giridih & Dhanbad (1), Gomati (1), Gonda and Barabanki (1), Gorakhpur&Sant Kabir Nagar (1), Guna (1), Gwalior (1), Haridwar (1), Hisar (1), Hoshiarpur and Gurdaspur (1), Howrah (1), Jagatsinghpur & Kendrapara (1), Jajpur & Kendujhar (1), Jalandhar (2), Jalore and Sirohi (1), Jamnagar (1), Jaunpur & Ghazipur (1), Jhajhar (1), Jhansi (1), Junagadh (1), Kaithal (1), Kakinada (1), Kalaburagi & Vijayapura (1), Kamrup & Kamrup (1), Kannur, Kasargod & Mahe (1), Kanpur (1), Kanpur Dehat & Etawah (1), Karaikal & Nagapattinam (1), Karnal (1), Kheda (1), Kolhapur (1), Kota (2), Kozhikode & Wayanad (1), Krishna (1), Kutch (2), Lakhisarai & Munger (1), Latur & Osamanabad (1), Ludhiana (2), Mainpur & Kannauj (1), Malappuram (1), Mathura (1), Medak & Siddipet (1), Meerut (1), Mirzapur (1), Moradabad (1), Morena (1), Muzaffarpur & Vaishali (1), Mysuru & Mandya (1), Nadia (1), Nalgonda & Suryapet (1), Narmada (1), Navsari (1), Nawada & Koderma (1), North Goa (1), Nuh and Palwal (1), Palakkad & Thrissur (1), Panchkula (1), Panchmahal District (1), Panipat (1), Patan (1), Porbandar (1), Puducherry (1), Pune (1), Raigarh (1), Raisen, Shajapur & Sehore (1), Ramanagara (1), Ramanathapuram (1), Ratnagiri (1), Rewa (1), Rewari (1), Rohtak (1), Rupnagar (1), Saharanpur (1), Salem (1), Sangli & Satara (1), SAS Nagar (1), Satna & Shandol (1), Seraikela-Kharsawan (1), Shahjahanpur & Budaun (1), Sheikhpura & Deoghar (1), Shivpuri (1), Sidhi and Singrauli (1), Sindhudurg (1), Sirsa, Fatehabad and Mansa (1), Solapur (1), Sonipat (2), South 24 Parganas (1), South Goa (1), Sri Potti Srimamulu Nellore (1), Srikakulam&Vishakhapatnam (1), Sundargarh & Jharsuguda (1), Surendranagar (1), Thane (1), Thiruvananthapuram (1), Tiruppur (1), Tumkur (1), Uddham Singh Nagar (1), Udupi (1), Ujjain (1), Unnao (1), Uttara Kannada & Haveri (1), Valsad (1), Vikarabad (1), West Godavari (1), West Singhbhum (1), West Tripura (1), Yamunanagar (1).

Conclusion

It is concluding that, O/G business is basically an Interdisciplinary sector, which depends on one another. To add on, Midstream Sector depends on Upstream Sector, Downstream Sector depends on Upstream and Midstream Sector. Moreover, Further, Distribution, Marketing and Retailing Sector depend on all of the three sectors.

The Future of Indian Oil & Gas Market will generate high Demand and Supply Ratio (D-S ratio). Importing and Exporting of O/G will occupy more from 2020 to 2030. During this one decade, there will be tremendous growth of Petrochemical Marketing Sector at a high level of Perks. To meet this, more amount of CNG & PNG as taken place. In India more than 170 cities have CGD Networks and will achieve more than 200 cities till 2030.

Source of Funding

None.

Conflicts of Interest

None.

References

1. Lanjewar AA, Bansal R, Mishra SS, "Electric vehicle comparison, Profitability of gas pipeline", *J Manag Res Anal.* 2020;7(2):89-92.
2. Sakariya S. "Indian Oil and Gas Industry - An Overview", Gujarat University, PDPU, Research gate/publication/321245149.
3. Public Sector Status Report (13th January, 2020).
4. MoPNG (Ministry of Petroleum and Natural Gas).
5. CGD Distribution (www.ppac.gov.in).
6. Annual Reports (2018-19) (BPCL, HPCL, IOCL, GAIL, NRL, OIL, ONGC, Petro Net LNG, RIL, NRL).
7. Petroleum Explosive Safety Organization (PESO).
8. [Fundoodata.com/citiesindustry/list-of-petroleum-oil-gas-refeneries-companies-in-india](https://www.fundoodata.com/citiesindustry/list-of-petroleum-oil-gas-refeneries-companies-in-india).

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