



Naman Jain



OIL AND GAS SECTOR

- According to IEA (India Energy Outlook 2021), primary energy demand is expected to nearly double to 1,123 million tonnes of oil
- Nifty Oil & Gas Sector Index constitutes 15 stocks with total market cap 2,740,164.39,Cr

- India is the world's third largest energy consumer
- India's oil consumption stood at almost 4.9 million barrels per day (BPD) in 2021, up from 4.65 million BPD in 2020.
- As of September 2021, India's oil refining capacity stood at 248.9 MMTPA, making it the secondlargest refiner in Asia.
- Private companies owned about 35% of the total refining capacity.

- India is the fourth largest importer of LNG in the world.
- India's LNG import stood at 2,442 million metric standard cubic meters (MMSCM) in April, 2022.



PESTLE ANALYSIS

Political

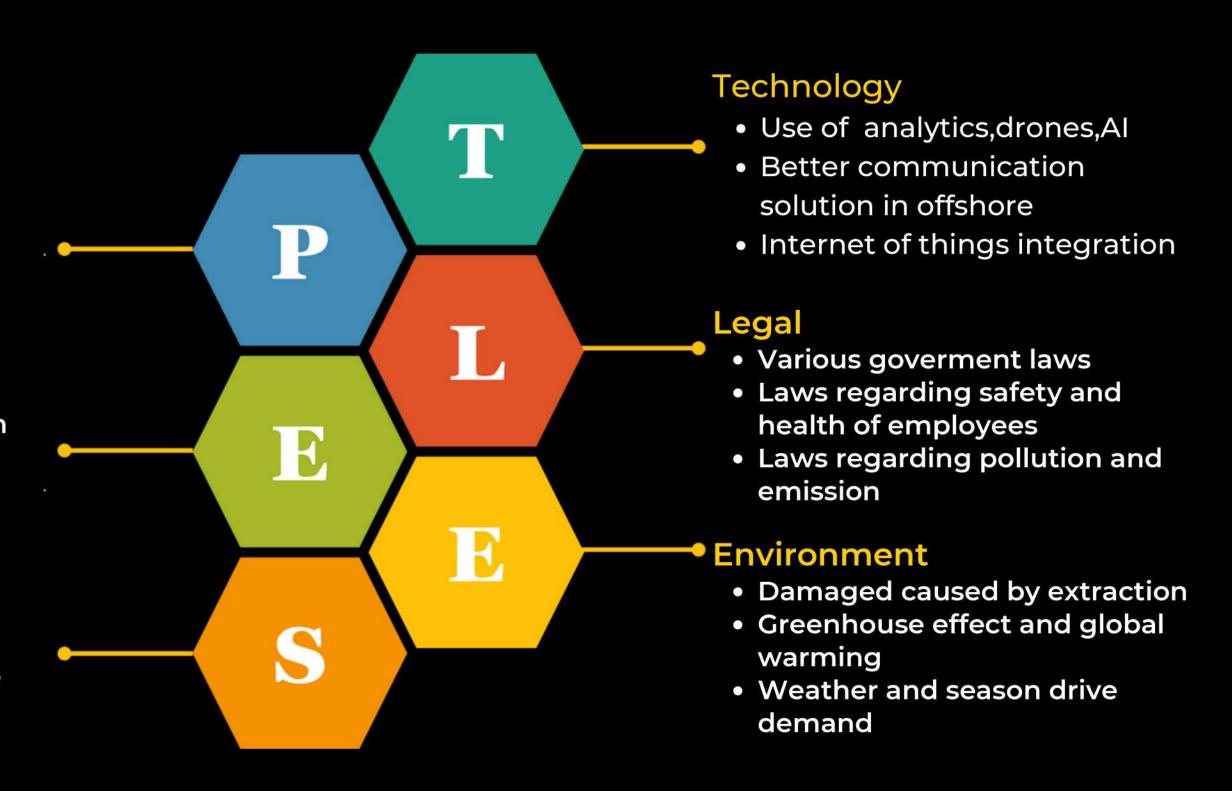
- Government Intervention
- International relations
- Energy security

Economic

- Rising oil price
- Increasing transportation cost
- Rising extraction cost

Social

- Increasing Income levels
- Less public transport use
- More automobiles





CLASSIFICATION

Upstream Segment

1. Exploration

2. Drilling

3. Production











Midstream Segment

1. Process and Storage



2. Pipeline











Downstream Segment

1. Refining



3. Distribution





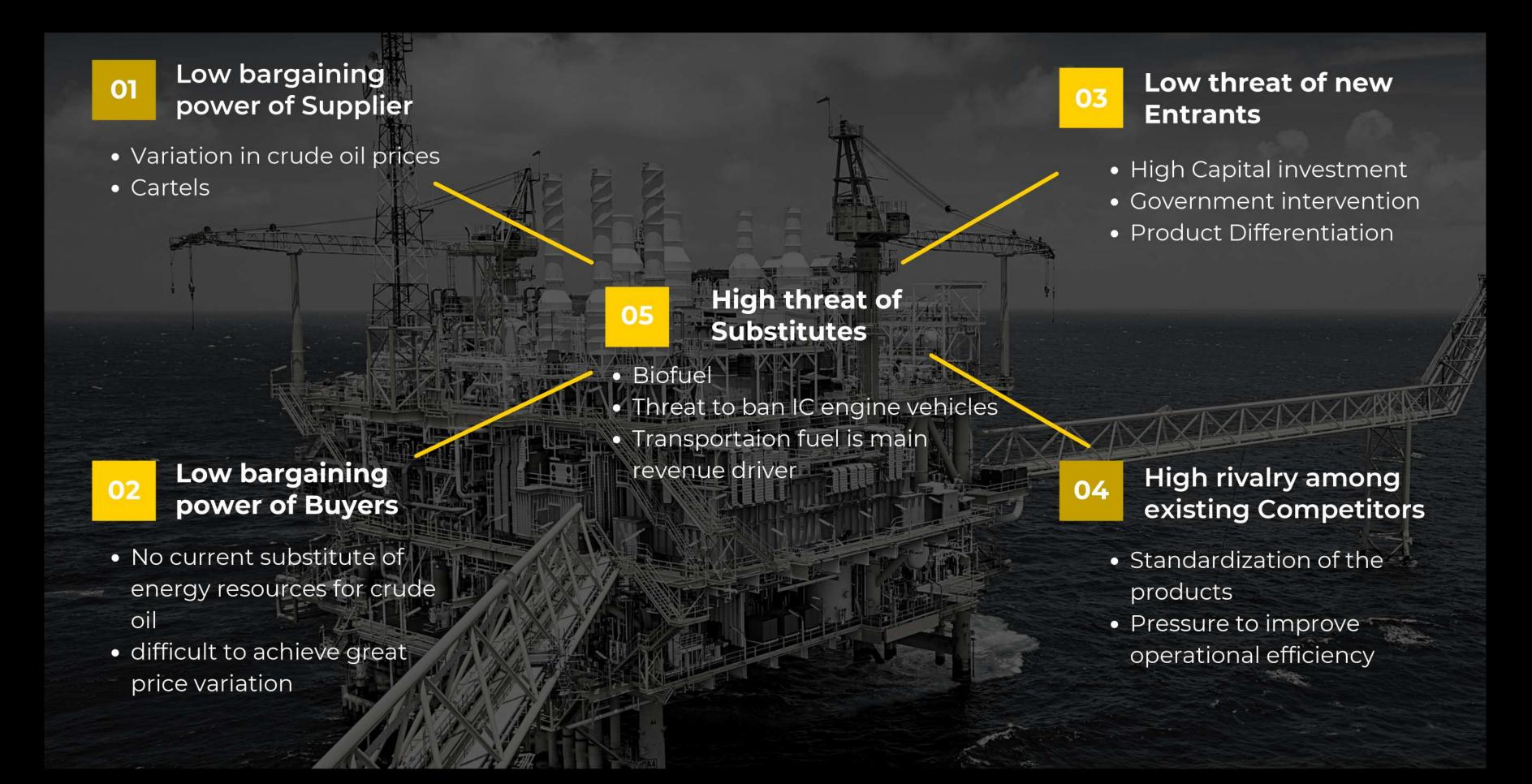








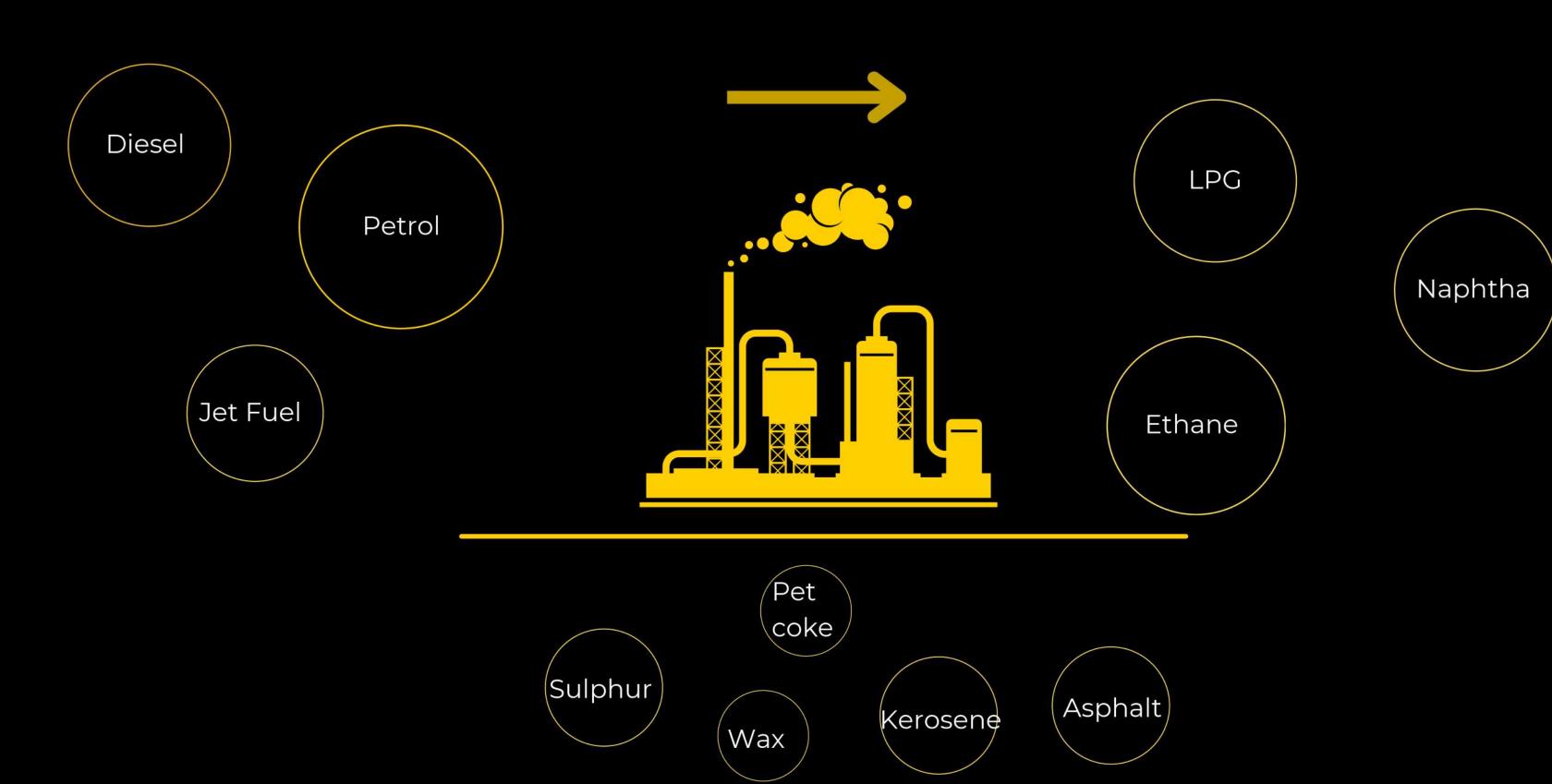
REFINERIES- PORTER'S 5 FORCES





BOUNDARY LINES

From Crude Oil to Chemicals: Refineries adapting to the shifting demand







COMPETITORS



The By-Products formed by the refining and processing of Natural Gas & Oil are innumerable.

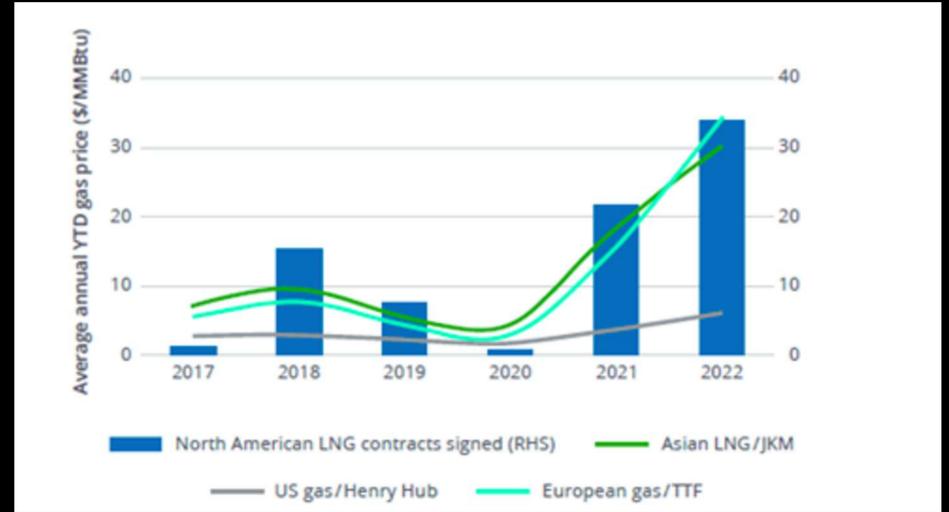
However, Many alternate materials are being used these days as a substitute for the same.

- 1 Natural Fibres
- 2 Bio-diesel
- **3** Organic/Plant based materials



PRICE AND SUPPLY CHAIN ISSUE

- The Russia-Ukraine crisis has to lead to an increase in oil and natural gas prices due to supply chain disruptions
- OPEC had refused to increase oil production to keep prices high
- The Russia-Ukraine war had a huge impact on the global oil prices. Oil prices rose from \$88 per barrel on 20th February 2022 to a 14-year high of \$140 per barrel on March 7th 2022
- Recently, The Damage caused to the Nord Stream Pipeline by sabotage has thwarted the Natural Gas Supply to Germany. The Nord Stream Pipeline supplies nearly 40% of the Gas to Germany so its a huge blow for the nations involved.







INDIA WORLD

Diversification of import of oil from various sources

Resurgance in the Demand for Natural
Gas which is now growing faster than oil

2 One nation One Gas Grid

2 Increased use of IOT,AI in industry for exploration,maintenance and automation

Oil Companies diversifying into renewable energy

High oil prices for a long time has lead to increase in adoption of alternate sources of energy

Oil and Gas companies investing more in India for exploration and production

Looming Energy Crisis in Europe as a result of the Russia-Ukraine Conflict



GROWTH DRIVERS

FDI in the form of tie-up with countries like Russia and US for innovation

Robust demand growth and increasing exports of petroleum products

Indian companies
investing a lot in
expansion within India
Projects like Shale gas
production,Open
Acreage Licensing Policy





MAJOR PLAYERS

Indian Oil Corporation Limited

- Largest Refiner with 32% marketshare in India
- Largest Oil Marketer with 43.9% marketshare in India
- Control 11 out of 22 refineries in India
- 14.000+ km pipelines for crude oil and products
- Subsidiaries across SriLanka, Mauritius and Middle East

Reliance Industries Limited

- Owns the world's largest refining hub
- Capacity of 1.4 million barrels per day
- 30% market share in refining in India
- 1,300+ fuel retail outlets network
- Partnered with Shell,ONGC for exploration and prodution business



