

The worldwide oil-refining crunch

What is the issue?

Drivers around the world are feeling pain at the pump with fuel prices soaring, and costs are surging for heating buildings, power generation, and industrial production.

Background

- Prices were already elevated before Russia invaded Ukraine on Feb. 24.
- But since mid-March, fuel costs have surged while crude prices are up only modestly.
- Much of the reason is a lack of adequate refining capacity to process crude into gasoline and diesel to meet high global demand.

How much can the world refineries produce daily?

- Across the globe, there is enough capacity to refine about 100 million barrels of oil a day, according to the International Energy Agency, however, about 20% of that capacity is not useable.
- Much of that unusable capacity is in Latin America and other places where there is a lack of investment.
- That leaves somewhere around 82-83 million barrels per day (bpd) in projected capacity.

How many refineries have closed?

- The refining industry estimates that the world lost a total of 3.3 million barrels of daily refining capacity since the start of 2020.
- About a third of these losses occurred in the United States, with the rest in Russia, China, and Europe.
- Fuel demand crashed early in the pandemic when lockdowns and remote work were widespread.
- Before that, refining capacity had not declined in any year for at least three decades.

Factors contributing to high prices

- The United States, China, Russia, and Europe are all operating refineries at lower capacity than before the pandemic.
- **United States:** US refiners shut nearly one million bpd of capacity since 2019 for various reasons.
- **Russia:** Nearly 30% of Russia's refining capacity was idled in May, sources told Reuters. Many Western nations are rejecting Russian fuel.
- China: It has the sparest refining capacity.
- Refined product exports are only allowed under official quotas, mainly granted to large stateowned refining companies and not to smaller independent companies.
- China's state-backed refineries averaged around 71.3% and independent refineries were around 65.5%.
- That was up from earlier in the year, but low by historic standards.

What else is contributing to high prices?

- The cost to carry products on vessels overseas has risen due to high global demand, as well as sanctions on Russian vessels.
- In Europe, refineries are constrained by high prices for natural gas, which powers their operations.
- Some refiners also depend on vacuum gasoil as an intermediate fuel.
- The loss of Russian vacuum Gasoil has prevented certain from restarting certain gasolineproducing units.

Who is gaining from the current situation?

- Refiners, especially those that export a lot of fuel to other countries, such as US refiners.
- Global fuel shortages have boosted refining margins to historic highs, with the key 3-2-1 crack spread nearing \$60 a barrel.
- That has driven big profits for US-based Valero and India-based Reliance Industries.

Will oil refining pick up in the future?

- Global refining capacity is set to expand by 1 million barrels per day in 2022 and 1.6 million bpd in 2023.
- In April, 78 million barrels were processed daily, down sharply from the pre-pandemic average of 82.1 million bpd.
- The IEA expects refining to rebound during the summer to 81.9 million bpd as Chinese refiners come back online.

What is India's Position?

- India, which refines more than 5 million bpd, according to the IEA, has been importing cheap Russian crude for domestic use and export.
- It is expected to boost output by 450,000 by year-end, the IEA said.

What is the way forward?

- More refining capacity is set to come online in the Middle East and Asia to meet growing demand.
- When the countries like the US, Russia, and China start operating to the pre-pandemic levels, then the demand can be met.

Reference

1. <u>https://indianexpress.com/article/explained/explained-worldwide-oil-refining-crunch-7985206/li</u> <u>te/</u>

