

Dealing with Petcoke

What is the issue?

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• With restrictions on sulfur consumptions, petcoke is getting to be a favourable alternative.

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- India has to react appropriately to this in the context of the environmental implications involved. $\gamman{\cap}{\label{eq:context}{\label{eq$

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What is the recent challenge?

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• Sulfur is a common impurity in crude that can cause respiratory problems and acid rain when it's burned.

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• The global shipping industry has started implementing regulations to limit its sulfur consumption.

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• This will make the bunker fuel used in ships cleaner than the crude oil produced worldwide.

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- Traditionally, it has been the cheapest, dirtiest fraction from refining. $\ensuremath{\sc n}$
- The rules on sulfur content will come into force at the start of 2020. $\ensuremath{\sc n}$
- The oil market and refiners would thus have to find another way to dispose of their by-products.
- One popular way of disposing this of late has been to sell it to India as a cheap petcoke.
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How is petcoke an alternative?

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- Petroleum coke or petcoke is a spongy, solid residue from oil distillation. \n
- It is a coal substitute and can be burned for fuel in the same manner as coal. \n
- It notably has a higher energy content. $\space{\space{1.5}\spa$
- Petcoke has become an attractive raw material for power stations and cement plants in India.
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- The loophole in India's environmental taxes has facilitated this. \n
- Plain old coal attracts a clean-energy levy that has risen to Rs.400 a metric ton since it was introduced in 2010. \n
- \bullet On the other hand, petcoke has been exempt from this levy. $\slash n$
- Indian price for coal of comparable heating values in the region is Rs. 4,000 a ton. \n
- Given this and the high tax, petcoke has been a favourable alternative. $\ensuremath{\sc n}$
- Similar levy issues have favoured petcoke over natural gas as well. h

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How has petcoke use been?

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• Petcoke was the fastest-growing fraction of oil demand in India.

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• Its consumption is the second-biggest share of India's petroleum consumption after diesel.

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• It has outstripped even LPG and gasoline.

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• While petcoke is richer in energy than coal, it can have 20 times as much sulfur too.

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• The choking smogs have made India's cities the world's most polluted in recent years.

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What are the measures?

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• The Supreme Court last year banned the use of petcoke in New Delhi and adjacent states.

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• It however allowed a reprieve for the cement companies that consume about half of it.

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- Cement plants currently escape the court ban on the grounds that all their sulfur is removed in the production process. \n
- Government is planning a nationwide ban on using petcoke as fuel. $\ensuremath{\sc n}$
- Also, there are, reportedly, measures to halt imports. \slashn
- This is because petcoke produced overseas now accounts for about 40% of supply. γ_n
- Much of it is from U.S. refineries processing heavy Canadian and Latin American crude.

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What is the way forward?

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• The cement plants may not continue to be exempt in the future.

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- But besides this, the government should change its clean-energy taxes. $\ensuremath{\sc n}$
- It must be ensured that the levy on petcoke is equal to that on coal. $\ensuremath{\sc vn}$
- Nevertheless, it would become unfavourable for the global refining industry. $\space{\space{1.5}n}$
- But refineries can remove the sulfur altogether and turn it into sulfuric acid. \n
- This latter is a prized raw material for the fertilizer industry and chemicals manufacturing. γn
- This can even be fed back into refineries to produce ingredients for high-

octane gasoline.

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• The challenge of building sulfur plants which is costly has also to be reckoned with.

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Source: Indian Express

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