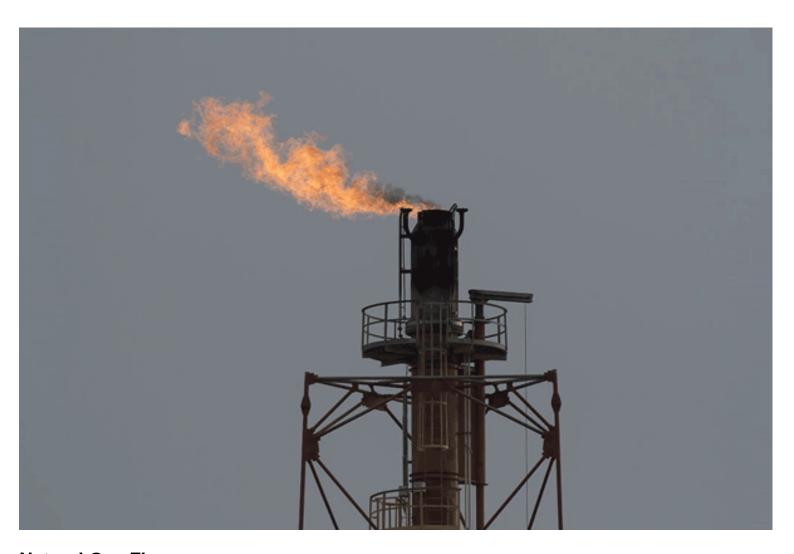


Natural Gas Flare

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Natural Gas Flare

Recent studies, including aircraft-collected samples in the United States, have shown high variability in nitrogen oxides emission estimates from natural gas flares.



[Ref: Medium]

About Natural gas flaring:

- Natural gas flaring is a prevalent practice in the oil and gas industry, primarily used to dispose
 of the excess natural gas extracted during oil production.
- This process involves the burning of natural gas associated with oil extraction, converting hydrocarbons into carbon dioxide (CO2) and water (H2O).
- The primary objective of flaring is to **reduce the climate impact** of releasing methane directly into the atmosphere and to mitigate safety risks associated with the accumulation of natural gas at extraction sites.

Environmental and Health Implications

- **Nitrogen oxides (NOx)**, such as nitric oxide (NO) and nitrogen dioxide (NO2), are significant byproducts of the natural gas flaring process.
- These gases are **highly reactive** and play a crucial role in the formation of **ground-level ozone** and **fine particulate matter**, both of which are detrimental to human health and the environment.