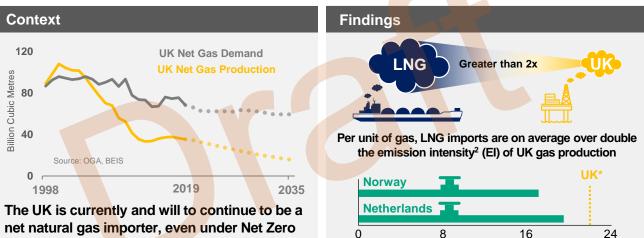
Soil & Gas Authority

Emissions Intensity Comparison of UKCS Gas Production and Imported LNG and Pipelined Gas



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net natural gas importer, even under Net Zero scenarios¹. Present sources of natural gas for the UK include: domestic production, pipeline imports and liquefied natural gas (LNG) imports.

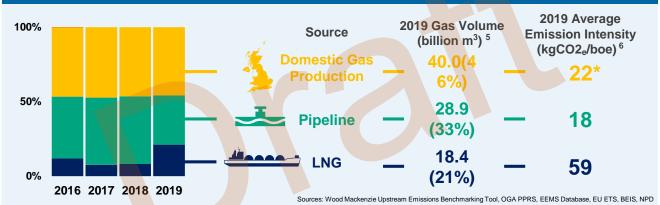
Pipeline imports from Norway³ and the Netherlands⁴ are estimated to have a slightly lower EI than UK gas

kgCO₂/boe

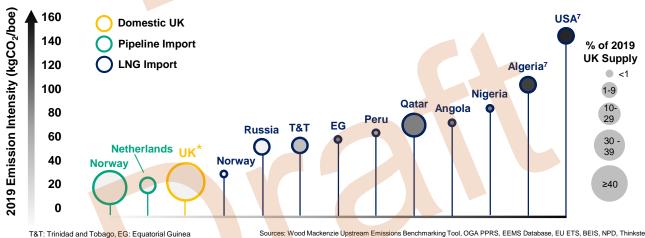
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UK Gas Supply by Origin



Emission Intensities of UK Gas Sources



Sources: Wood Mackenzie Upstream Emissions Benchmarking Tool, OGA PPRS, EEMS Database, EU ETS, BEIS, NPD, Thinkstep

¹https://www.theccc.org.uk/publication/net-zero-the-uks-contribution-to-stopping-global-warming/

• ² Emission intensity = Greenhouse gas (GHG) emissions created per one barrel of oil equivalent (boe) produced. GHG emissions include carbon dioxide and methane. The latter has a GWP (Global Warming Potential) factor - inclusive of climate-carbon feedbacks – of 34 applied to convert to CO2 equivalent. Source: IPCC Fifth Assessment Report https://www.ipcc.ch/report/ar5/syr/. Emission intensity values provided are best estimates, with a margin of error of +1- 20% due to uncertainties associated with upstream, midstream and transportation emissions.

- ³ Norwegian gas imports produced directly to UK upstream terminals.

• 4 The origin of Dutch and Belgian interconnector gas cannot be determined with certainty. For Dutch imports, Dutch gas fields were assumed to be the provenance of this gas. • 5 Source: BEIS Energy Trends: UK Gas https://www.gov.uk/government/statistics/gas-section-4-energy-trends

- ⁶ Average emission intensity of country level pipeline system or LNG exports.
- 2018 emission intensity value. Awaiting verification of 2019 figures. This factsheet will be updated when these data become available.

⁷ Source: Thinkstep, 2017, GHG Intensity of Natural Gas Transport https://www.thinkstep.com/content/resource-report-carbon-footprint-natural-gas-transport

• EEMS: Environmental and Emissions Monitoring System; EU ETS: European Union Emissions Trading Scheme, BEIS: Department for Business, Energy and Industrial

Strategy, NPD: Norwegian Petroleum Directorate, OGA PPRS: Oil and Gas Authority Petroleum Production Reporting System.