



Oil & Gas
Authority

Flaring & Venting – OGA’s view

Technologies for Flaring & Venting Monitoring and Reduction - Webinar

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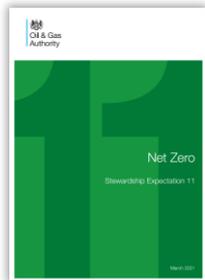


- OGA established 2015, with strong emphasis on ‘Maximising Economic Recovery’ – the ‘OGA Strategy’.
- New OGA Strategy came into force February 2021. Net Zero obligations are now part of the ‘Central Obligation’ on Operators.



“Economic recovery of oil and gas need not be in conflict with the transition to net zero, and the oil and gas industry has the skills, technology and capital to help unlock solutions required to help the UK achieve the net zero target.

However, the OGA takes the view that industry should go considerably faster and farther in reducing its own carbon footprint, or risk losing its social licence to operate.”



- Stewardship Expectation 11.

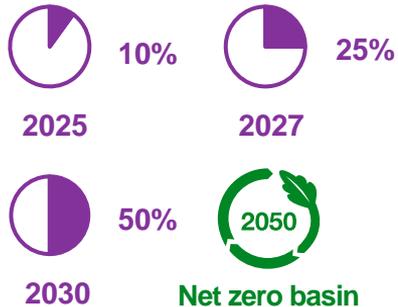
Active flare reduction strategy:

- Flare measurement including tracking of 'unlit' periods & composition analysis
- Monitoring of flare combustion efficiency

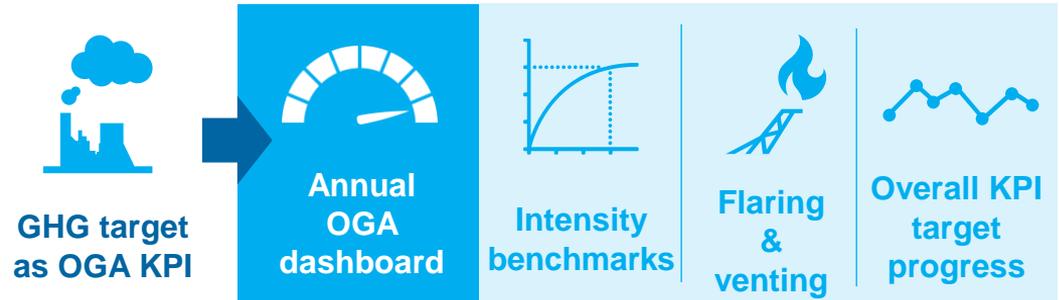
Active vent reduction strategy.

Invest in & deploy appropriate GHG emissions measurement technologies.

North Sea Transition Deal Commitments



OGA tracking and monitoring progress





OGA published updated Flare & Vent policy June 2021

Consenting

- Drive to continually reduce flare & vent
- 'Cold flare' now reported as vent



Stewardship

- Regular engagement with Operators
- Emissions Reduction Action Plans (ERAPs)



Data – Benchmarking of flaring & venting data

All of this is underpinned by the ability to satisfactorily quantify emissions.



New developments to plan on basis of no routine flaring and venting
Zero routine flaring and venting for all by 2030 at the latest



Current estimate of GHG emissions, with uncertainty of determined quantities (measured / calculated)

- Flares, vents & any other GHG sources
- Fugitive emissions



ERAP should be **fully embedded into Operators' key processes** (targets, KPIs)

Regularly refreshed / re-prioritised project hopper containing potential emissions reduction actions / projects, with costs & estimated GHG-reduction potential

Demonstrate that Field / Terminal **business plans include sanctioned GHG reduction actions / projects**. These must be fully funded & resourced, with realistic delivery timelines.

Track-record of GHG-reduction actions / projects delivered to date, detailing subsequent reviews

- Measured emissions reduction v. planned
- Execution timeline v. planned





- Measurement (metering) of quantity delivered to flare tip (consented by OGA)
- Quantification of resultant emissions (reporting to ETS, EEMs, ERAPs etc.)

Metering

- Installation effects - lack of representative flow calibration
- Use of CFD to correct – but how traceable is this?

Emissions

- Combustion efficiency
- Composition of flare gas



- Measurement (metering) of quantity vented (consented by OGA – quantification now required)
- Quantification of resultant emissions (reporting to EEMs, ERAPs etc. *note: not ETS!*)

Metering

- Installation effects - lack of representative flow calibration
- Low flow sensitivity

Emissions

- Composition of vent gas
- How representative are models for fugitive emissions?
- If fugitive emissions directly measured, how representative?

Future Trends?



- Regulation of fugitive emissions?
- Consenting of emissions rather than amount of gas flared or vented?
- ETS to include Methane?



Recap



- **OGA Strategy**
- **SE11**
- **OGA Flare & Vent Policy**
- **ERAPs**
- **Flare & Vent Measurement Challenges**



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Thank you
