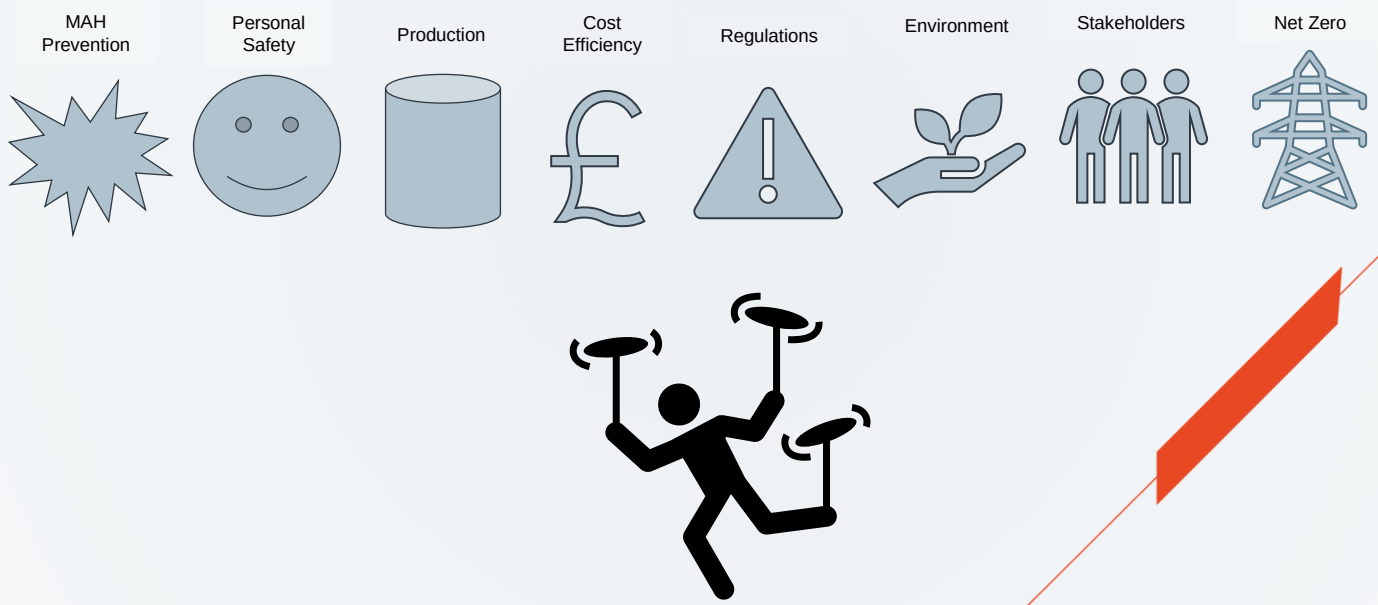
Operated Asset CO2 reduction Journey

Rob Barrie -
Technology Lead

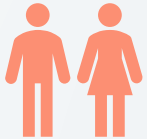
The Challenge - What are we balancing trying to reduce emissions on offshore assets?



Emissions Context

~1.8t CO_2eq / year

Avg. passenger car in Europe



5.3t CO_2eq / year

UKGov 2019 UK emissions per person

~300kt CO_2eq / year

Acorn CCS Phase 1

~1.2Mt CO_2eq / year

Aberdeen City
228k people

32.4Mt CO_2eq / year

London Energy & Greenhouse Gas Inventory (LEGGI)

351.5Mt CO_2eq / year

UKGov 2019 UK net emissions

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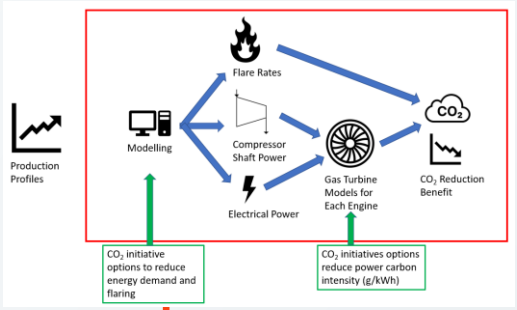
The Journey



Understand the Scope 1 Emissions on the Assets

Set a baseline year to Measure against

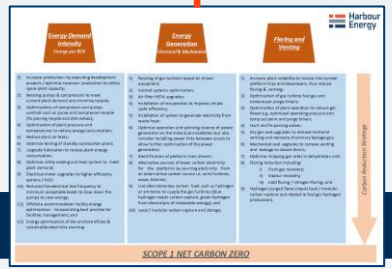
Build a Forecast model

Look for opportunities to reduce emissions for scope 1 emissions (needs to be evergreen)

Economically Screen the options

Deliver the CO2 reduction scopes where economic + meets other factors

Measure & Track and set targets + enablers for delivery



Learnings, Feedback and Update

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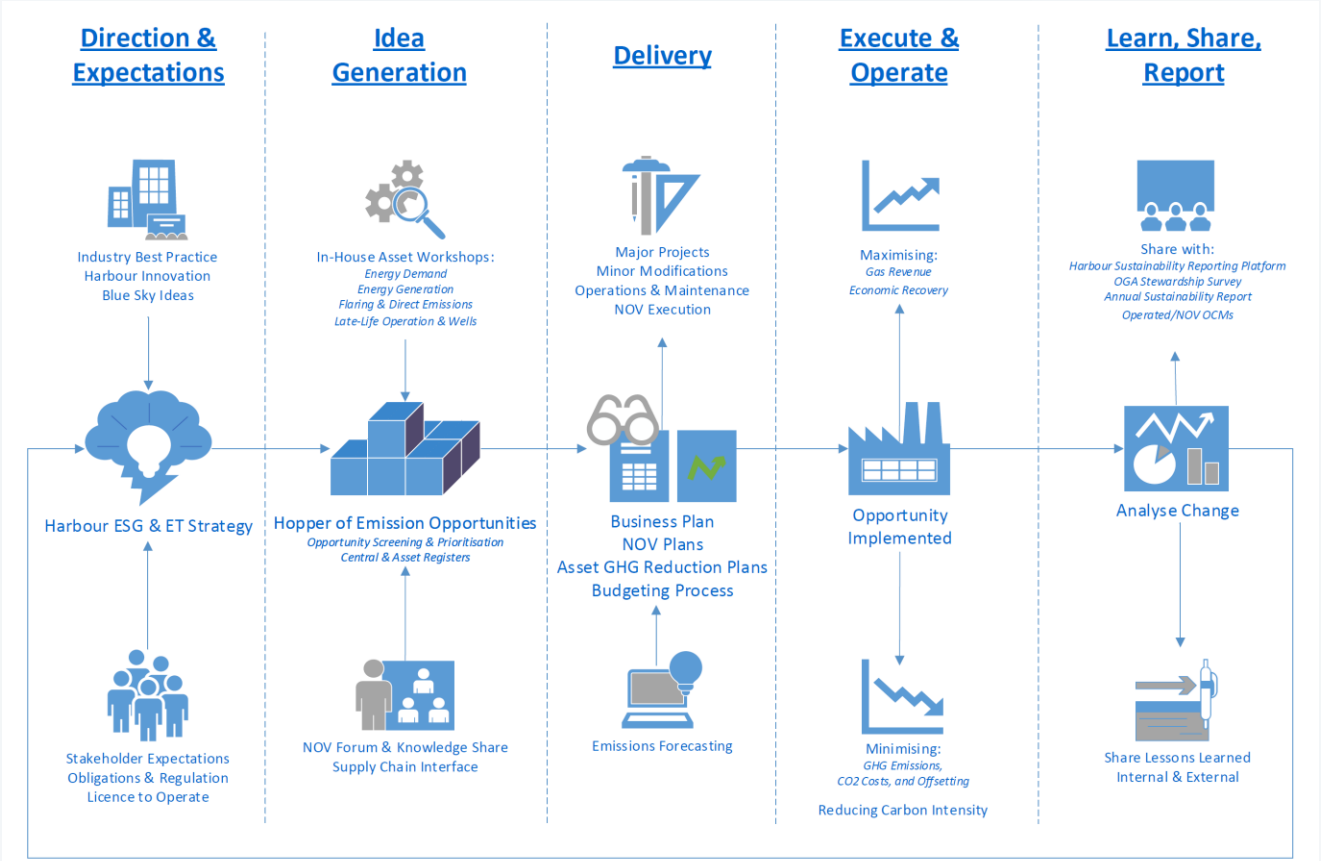
The GHG Reduction Process In Detail



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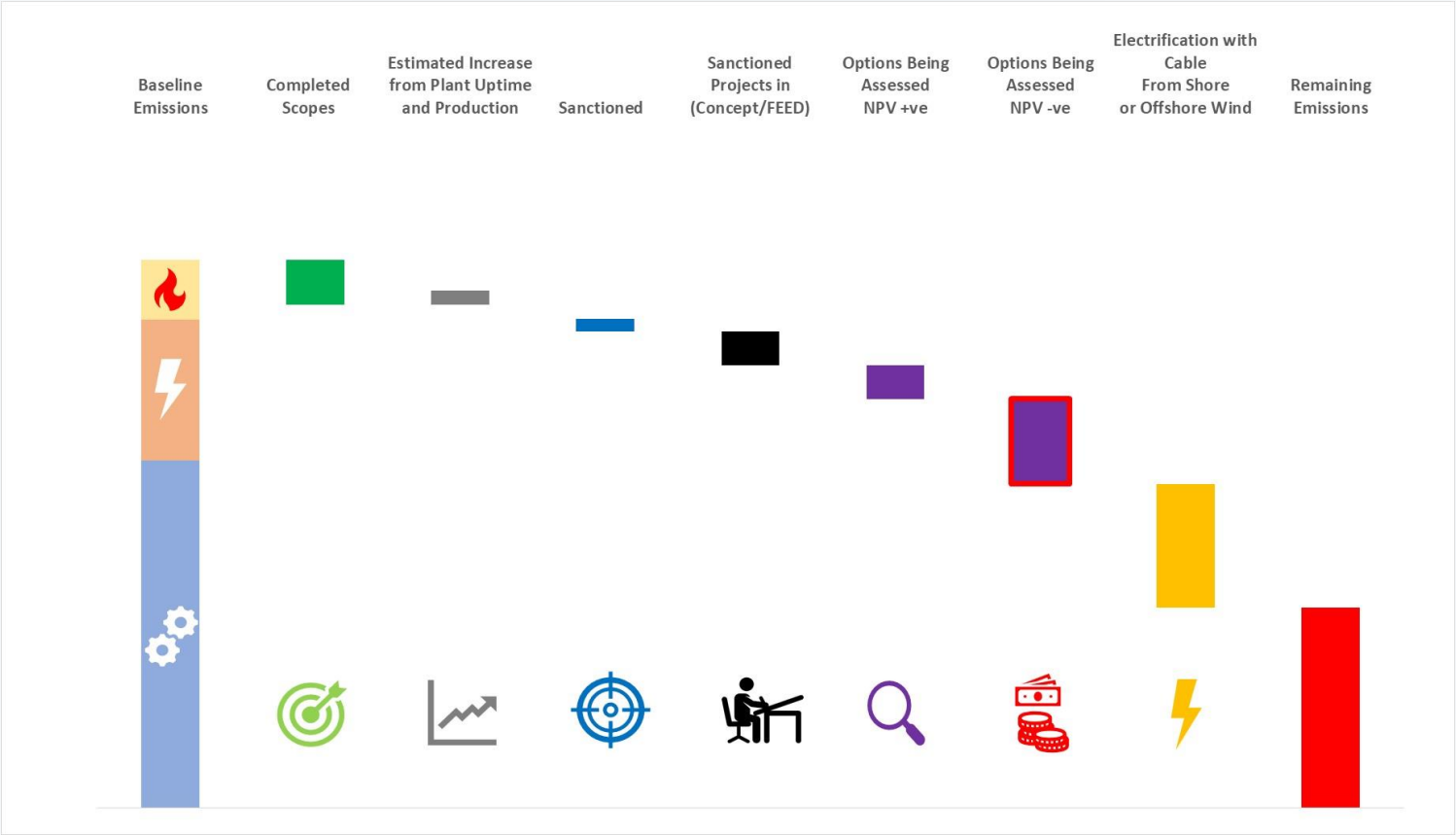
CO_2 Reduction Waterfall



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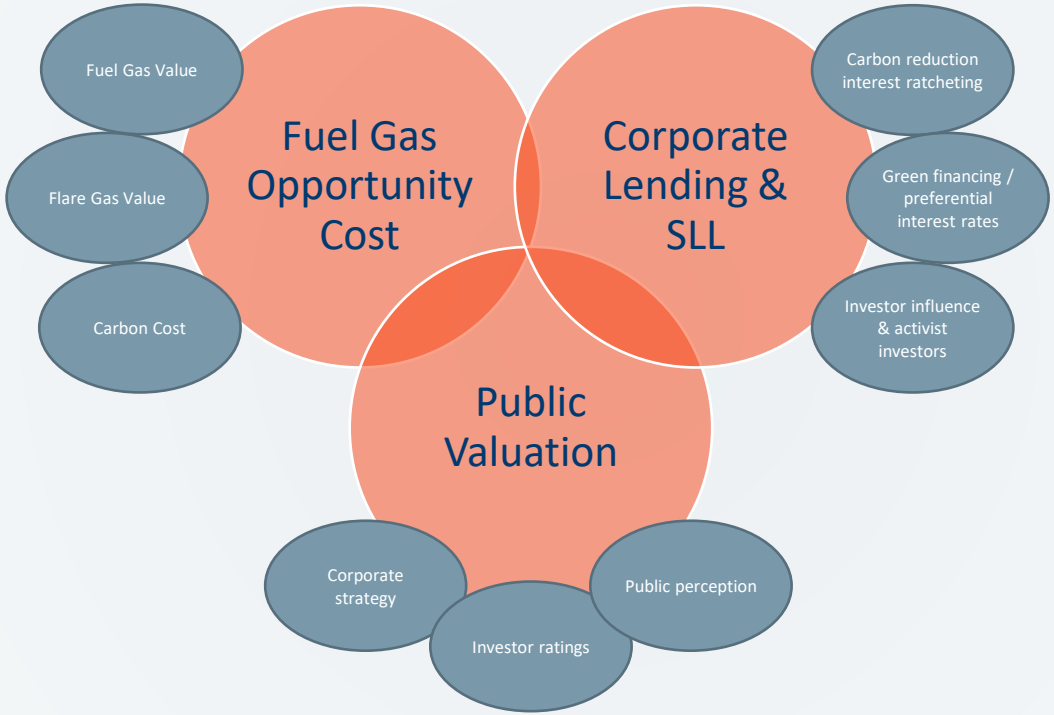
Economics of Emissions



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THE INDUSTRY CHALLENGE

People – how do we promote behaviours to enable GHG reduction in similar style to safety (e.g. stopping energy waste, consumption, venting and flaring)

Plant – what plant modifications do we need to do on the facilities that helps drop GHG emissions safely and economically

Process – how we change how we operate, maintain, support the facilities and business that helps drop GHG emissions safely and economically

To achieve Industry, Government and Societal goals, we need to identify, assess, and execute the right actions, at the right time, for the right outcomes.

We need practical ideas from inside and outside our own companies, industry PEERs, outside industry and supply chain to support our GHG reduction journey.

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