

Main Power Generation Optimization

Summary

Target Emission Source: **Power Generation**

Emission Reduction Strategy: **Operations Efficiency**

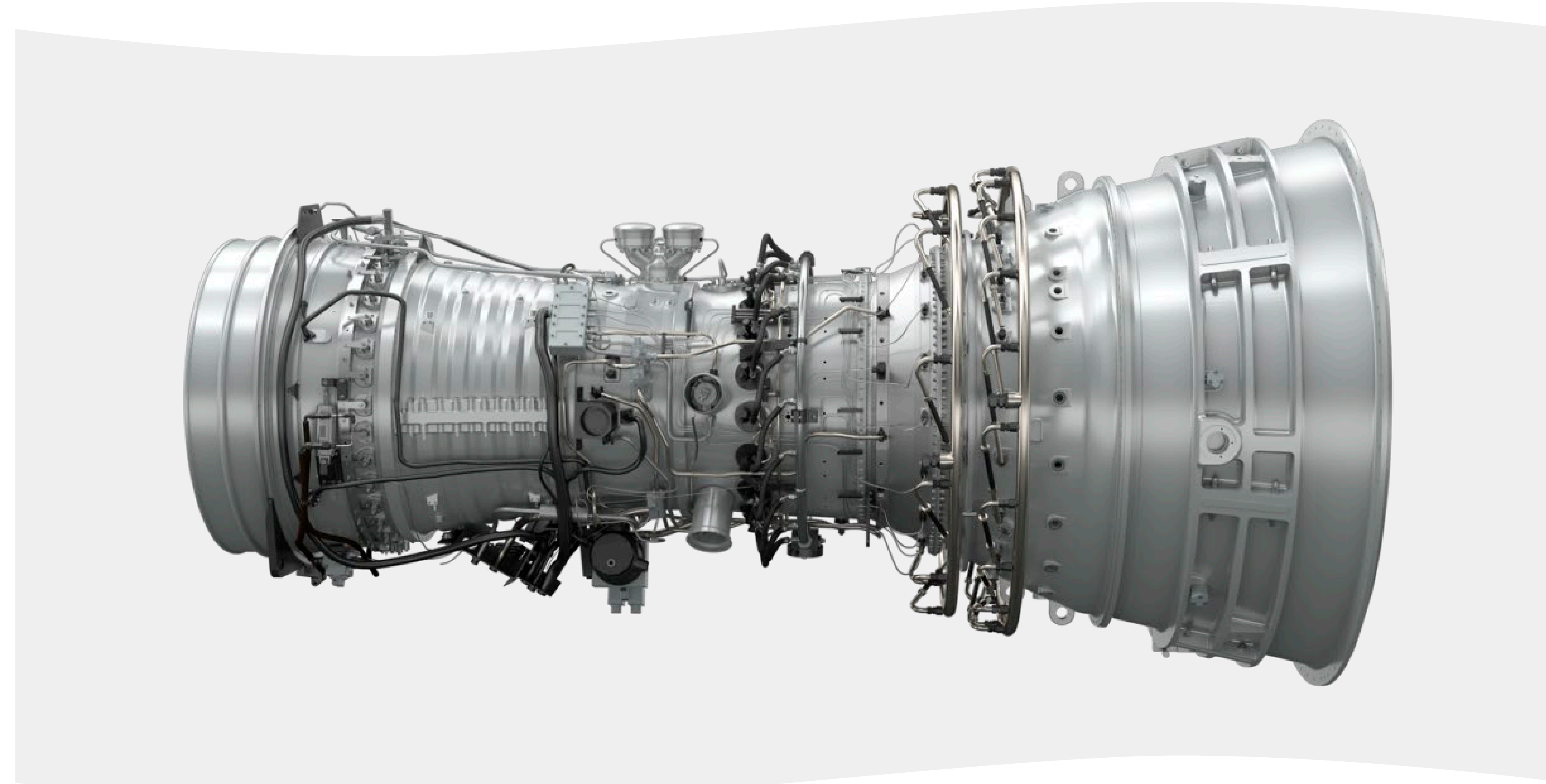
Project Type: **Related Science Activity**

Field Trial Required: **No**

Projected Ready By: **Staged for completion by 2025**

The Project

The power generation system for the SeaRose floating production, storage and offloading vessel (FPSO) comprises three dual fuel turbine driven generators, which provide power to the process and utility equipment. The SeaRose runs three main power generators with a partial load. This study identified the modifications to increase energy efficiency of the power generation system with a target of reliably operating with two main power generators. The study determined the technical and commercial feasibility of options and provided a recommendation on the paths forward to achieve GHG reduction.



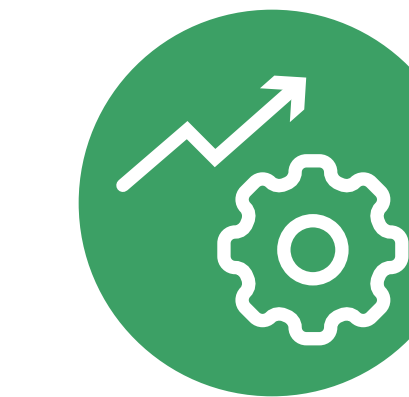
Benefits



Identified and assessed opportunities to increase power outputs of natural gas driven generators



Identified main power generation efficiency opportunities to enable operation with one less unit



Identified technical improvements to enable reliable operation of two main power generators

Opportunities & Next Steps

Complete economic analysis with intent of implementing improvements

Develop a staged approach for improvements to coincide with existing maintenance planning

Tailor the improvements to align with future power demand requirements