

Terra Nova FPSO Flare Reduction Study

Summary

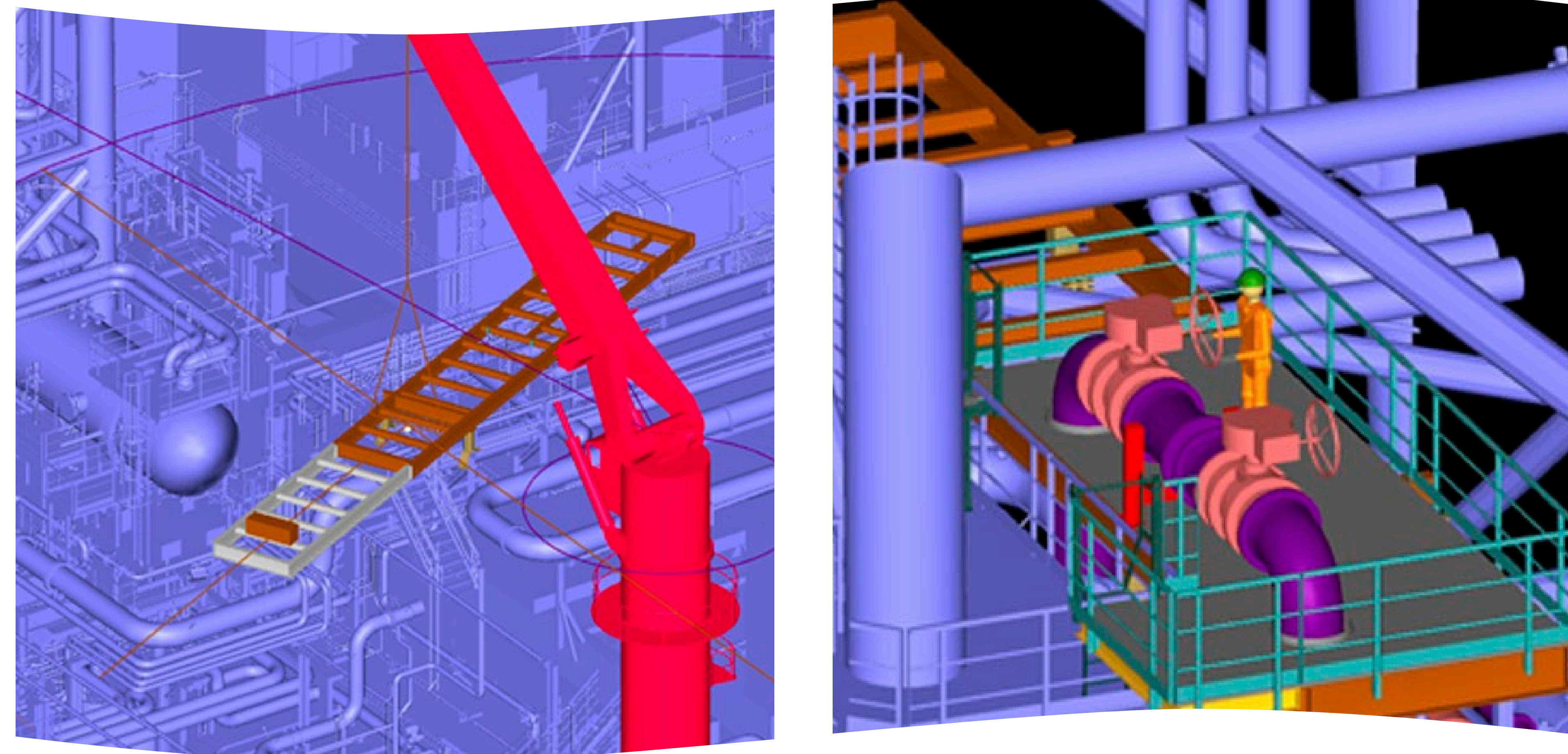
Target Emission Source: **Flaring**

Emission Reduction Strategy: **Flare Reduction Technologies and Operational Efficiency**

Project Type: **Related Science Activity**

Field Trial Required: **No**

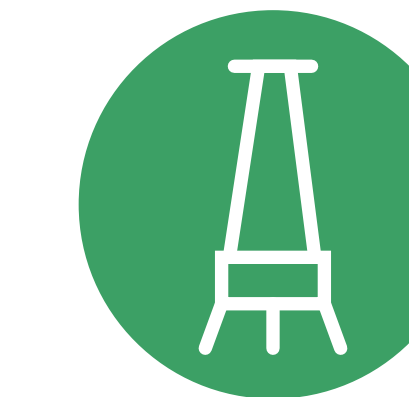
Projected Ready By: **2022**



The Project

On average, daily background flaring results in approximately 25-30% of Terra Nova's current greenhouse gas emissions. Flare gas is a by-product of oil production and processing during normal operations that is released from different sources in the process system. This project completed front-end engineering and design (FEED) studies focusing on reducing flaring on the floating production, storage and offloading vessel (FPSO). The study assessed the technical feasibility of installing a closed flare system on the Terra Nova FPSO and reducing gas compression train related flaring, and recommended paths forward for GHG reduction.

Benefits



Identified and assessed options to install a closed flare system and reduce other operations related flaring on the Terra Nova FPSO



Knowledge advancement related to GHG reduction technologies and methodologies, particularly those related to retrofitting a mature facility

Opportunities & Next Steps

Seek alignment to proceed with detailed engineering to further evaluate constructability and practicality of implementing a closed flare system considering remaining service life

Conduct a thorough economic analysis and GHG emissions forecast to better quantify the benefits and risks of implementing such a system.