

# IADC ART Energy Efficiency Project Proposal

## Project Proposal Title

Emission Reduction Recommended Practices for Drilling Operations

## Project Description

The International Energy Agency predict that almost 40% of the emissions reductions required to meet the Paris Agreement scenario will come from energy efficiency improvements. Energy efficiency and emission reduction are now front and center in the dialogue between offshore drilling contractors and operators and their stakeholders following the energy transition. While much is written and published on the intentions, future targets and efforts to be taken to achieve these targets, there is little published on the tools and techniques to improve energy efficiency and thus reduce emissions from drilling operations.

We propose to assemble a working group to develop a document which will capture and share recommended practices to optimize energy efficiency of rig operations. The group may split into multiple groups to develop sub-sections for specific conversations based on rig type (onshore, jackup, floating). Specific considerations onboard of MODU which may include, but not be limited to, optimizing Dynamic Positioning (DP) operations and thruster utilization, optimizing engines utilization, optimizing power plant configurations, optimizing the use of drilling equipment, optimizing the use of marine and ancillary systems, stored energy considerations, external power supply considerations.

Along with energy efficiency optimization, which has a direct impact on the emission level, following passive emission reduction practices can be described and detailed; CSR reactors, CO2 capturing and storage, etc.

It is the intention to keep alternative fuels outside of the document scope and place this scope with another project.

It is the intention, at this time, to include specific recommended practices solely focused on the MODU and offshore drilling operations due to the fact that tools and techniques are substantially different for MODU and Land rigs

Depends on the industry's attention to these Recommended Practices but also if we will be able to accumulate and align a significant number of recommended practices, we can take the next step and discuss how they can be published, e.g., IADC, API, etc.