

IADC ART Energy Efficiency Project Proposal

Project Proposal Title

Alternative Fuels Overview Report

Project Description

As operators and drilling contractors come under increasing scrutiny to reduce their direct emissions from activities, the implementation of more carbon-neutral energy to power operations will play a critical role in making substantial reductions. Alternative fuels such as biofuel, liquified gas, methanol, ammonia, and hydrogen have been identified as primary candidates for achieving carbon neutrality from drilling operations in the long-term. Meanwhile, line power, battery storage, fuel cells, and other technologies currently available on the market may also help in the near-to-medium-term to achieve decarbonization of drilling operations.

It is important for drilling contractors to navigate through this technologically complex and rapidly expanding market, monitor developments and be ready to implement solutions matured sufficiently for newbuilds, conversions and upgrades. In addition to the maturity of various technologies or fuels, there are many other factors to be considered and monitored, including safety, logistics, long-term storage, and various geographical limitations.

It is proposed to investigate the current technological landscape and prepare a report to the IADC ART Committee and to the wider IADC community with an overview of various solutions, feasibility of taking these solutions short, medium and long term, and the magnitude of the upgrades of the existing onshore and offshore drilling rigs associated with alternatives fuels enabling.