Baker Hughes

Spotlight on Progress

ALL IN. CARBON OUT.

Blue Marlin 'rides the waves' in Brazil

Business need

Dynamic positioning is a method by which a vessel remains stationary in the ocean without physically attaching itself to the oil rig or dropping anchor. Although this method provides more flexibility and efficiency in operations, it burns more fuel.

In our Pressure Pumping business, there is a high reliance on diesel to fuel the marine vessels utilized for operations. This high reliance on diesel heightened the need to improve the efficiency of our fuel usage related to marine vessels. Combined, our marine vessels produced ~26,275 MT CO_2e in 2023.

Impact

In Brazil, our assembly, maintenance and overhaul team led a project to decrease our emissions on our Blue Marlin vessel utilizing variable frequency. Variable frequency is a new technology designed to maximize fuel efficiency during dynamic position operations by rotating the propeller at a slower, variable rate, thereby burning less fuel.

The upgrade provided significant fuel savings and emissions reduction, leading to an approximately 30% reduction in fuel consumption and approximately 14% emissions reduction when the vessel was stationary to the rig.

Project team

Carbon Out - OFSE

Strategic outcome

Reduce scope 1 and 2 greenhouse gas emissions by 50% by 2030

Supporting the UN's Sustainable Development Goals (SDGs)

In support of UN SDG **target 9.4**: upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies. Through our Carbon Out program, we have implemented new technology designed to maximize the fuel efficiency during vessel dynamic position operations.

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