

CASE STUDY

Understanding Decarbonization in Various Offshore Industries





Client

An Offshore Drilling Company



Industry Industrials



Solution Market Landscape



Region

Global





OBJECTIVE AND SCOPE

The client wanted to take strategic decisions around their decarbonization efforts and sought Benori's support for:

- Understanding initiatives taken by offshore industries and their implications for the Ocean Economy
- Focus was on major offshore segments including shipping, oil and gas, service vessels, fishing, and offshore renewables







APPROACH

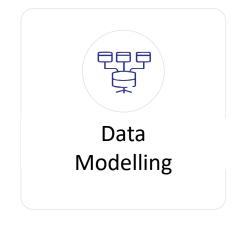
We conducted secondary research from resources including International Energy Agency and International Maritime Organization, company websites, and news articles. We studied the regulations, goals, and initiatives by different countries, and collated data on carbon emissions, trends, drivers, and challenges in each segment. We also created case studies of top players in each segment to understand their goals, initiatives, technologies, partnerships, and investments made.



METHODOLOGY













Impact

The detailed insights helped the end-client in:

- Gaining a deeper understanding of carbon emissions at different stages of the value chain
- Leveraging competitive intelligence to understand the top technologies, initiatives, goals, and investments for decarbonization to shape their sustainability strategy





Sample Output

Major Decarbonization Initiatives Major Initiatives Decarbonisation Initiatives **Key Players** Sectors Establishing new floating wind farms for providing power to diffshore all and gas platforms in The North Sea Use of blue hydrogen produced by reforming of natural gas or gasification of coal, with CO2 captured and Offshore Oil and **S**bp stored (CCS) Offshore Vestas Renewables Orsted Collaboration with other shipping companies by forming partnerships or associations, to are resolved associated costs. Developing vissels that run on LNG, methane, and hydrogen Improving digital means to track and monitor carbon emissions as well as the use of Al, blockchain, and software's for ornarier solutions. Shipping Low-emission upgrades which include hybrid power technologies and fuelling infrastructure Hydrogen and ammonia-based fuels are in consideration as an alternative fuels to reduce the carbon emission. SOLSTAD OFFSHORE They are obtaining power from land, solar cells and hybrid Salutions and electric share power is being used to reduce the emissions. They are trying to reduce the emission from their process and to meet the net zero emission targets by ver 2050. Whod turbines and solar panels are used in fishing farms (in Rogaland by Grieg seafood). LERØY Grieg Offshore Fishing

Global Carbon Emissions in Shipping Global Carbon Emissions side (CO2), nitrous-exide (N2O), and mathene (CH4), expressed in CO2e — of the **total shipping** have increased from xx Carbon intensity has improved between 2012 and 2018 for international shipping when compared to 2008 standards, by about xx% (Voyage-based allocation EEOI) and xx% better (Vexeel-based allocation EEOI) Global CO2 Emissions (IMO) +. Three different methods have been considered for emissions : CO2 Emission Mn Tonnes Total shipping – all vessel types (heavyweight vessels, mediumweight vessels, lightweight vessels, and boats) Voyage based international shipping – only voyages between ports of different countries are considered Vessel-based international shipping – based on total vessels type and size, to either domestic or international 0.000 Global shipping CD2 amissions represented as Mn bonnes in 2018, as Mn tonnes in 2019, also as Mn tonnes in 2020 and were responsible for around as/% of global emissions 400.0 200.0 Emissions are projected to increase from about x5% of 2008 emissions in 2018 to xx% of 2008 emissions by 2050 for a range of plausible long-term economic and energy scenarios 2013 2014 2015 2016 7017 2003 -- Venuel-based d-based 4th IMO GHG Study

About us:

Benori is a trusted partner for knowledge solutions across the globe, serving clients from a wide range of industries including Professional Services, Financial Services, Consumer & Retail, Technology & Internet, Industrials & Manufacturing, and more. Our customized solutions strengthen the insights value chain of our clients, empowering them with key insights needed to drive intelligent decision-making and accelerate growth.

Headquartered in India, Benori is uniquely positioned to deliver multilingual research needs of global clients, powered by its digital agility, deep research capabilities and a highly experienced leadership team. Adopting a 360-degree approach, our team employs a combination of diverse methodologies including primary research, secondary research and data modeling, and offers detailed foresight on market trends, competitive shifts, regulatory changes and technological advancements.

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