

# TECHNOLOGY TRENDS

Exploring the Future of Maritime Innovation

“Innovation in the maritime industry is cyclical, and we’re on the verge of a new wave of technologies and change.”

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Kirk H. Waltz  
Director, Business Development –  
Clean Energy Transition

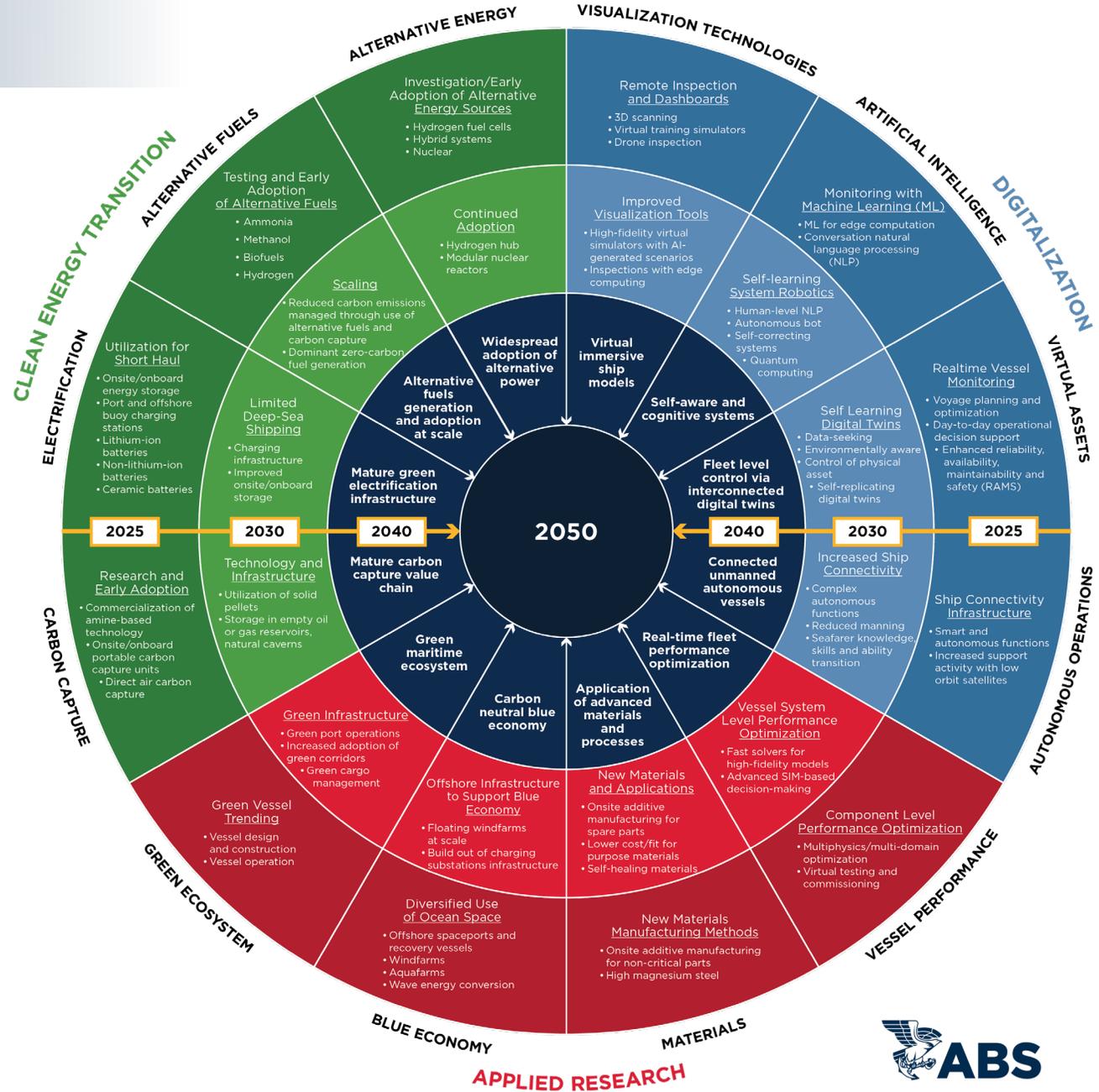
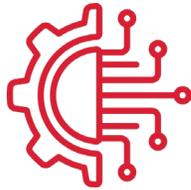
# Innovation Outlook

## Sustaining innovation for Net-Zero Carbon Environment



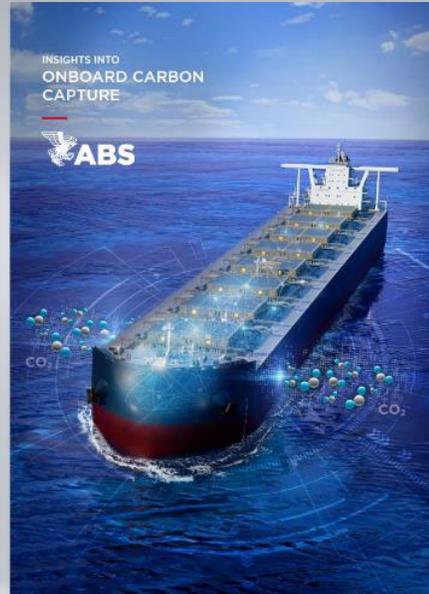
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## Digital Ecosystem





# Carbon Capture

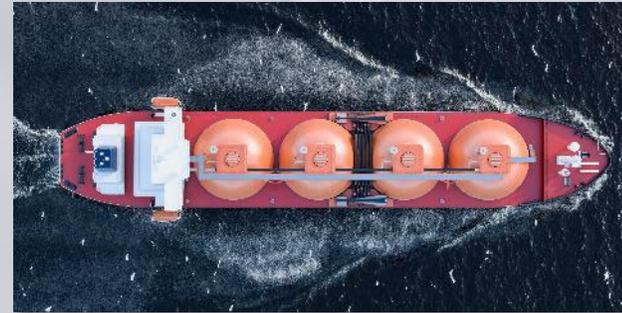
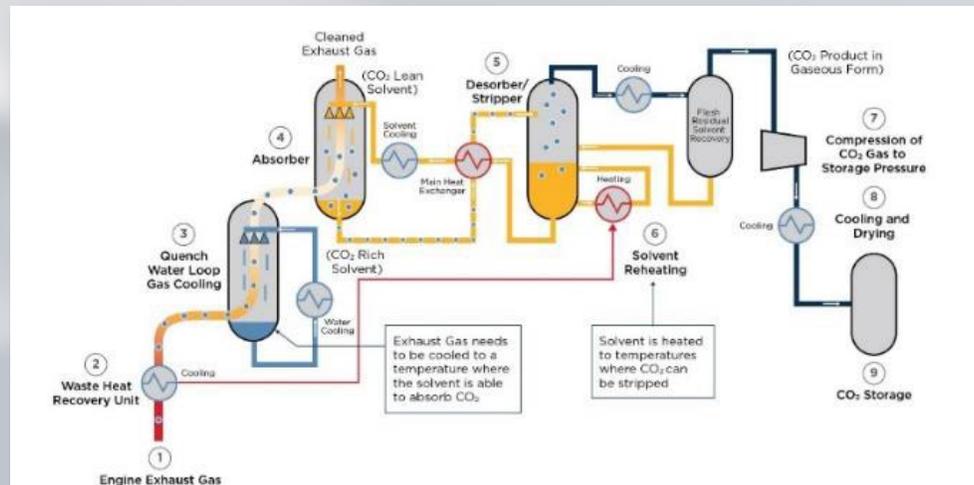


## TECHNOLOGY

Carbon Capture Guidance

Insights into Onboard Carbon Capture and Storage

ABS Requirements for Onboard Carbon Capture and Storage



## APPLICATION

JDPs to Develop Carbon Capture and Storage System

## RESEARCH



Considerations for design and verification of CCUs onboard LNGC's

“Carbon capture is going to be a key transformational technology for shipping to achieve net zero emissions by 2050. It will be **critical to addressing the challenge** before us.”

CHRIS WIERNICKI, CHAIRMAN,  
PRESIDENT & CEO, ABS

# Alternative Fuels/Energy



© Principle Power

## APPLICATION

Industry Partnerships

Offshore Wind: Digital Twin Development

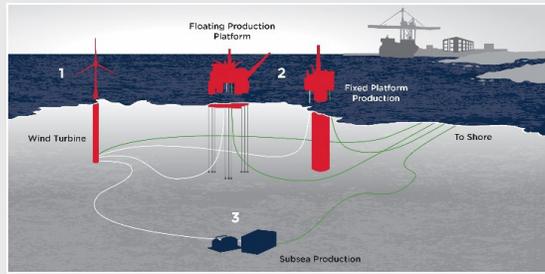
NTQs and AiPs for Ammonia, Methanol, and Hydrogen generators

Guide for Building and Classing Liquefied Hydrogen Carriers

Publication on Offshore Production of Green Hydrogen

## TECHNOLOGY

Generation, Transport, and Storage

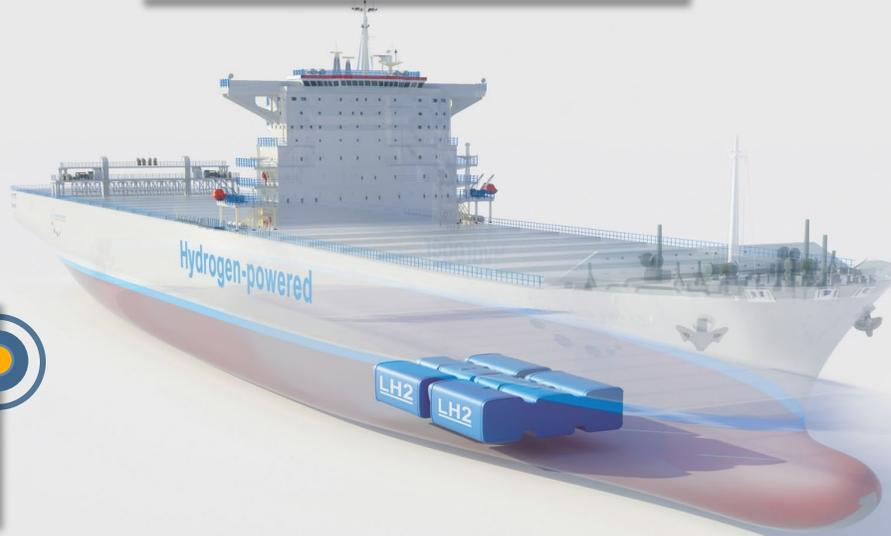


## RESEARCH

University Research Engagements



Lessons from onshore use of ammonia



# Alternative Energy: Nuclear



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## TECHNOLOGY

Industry  
Guidance for  
Novel Concepts

NTQs for Marine  
Modular Reactors

Intro to Advanced  
Commercial Nuclear  
for Maritime



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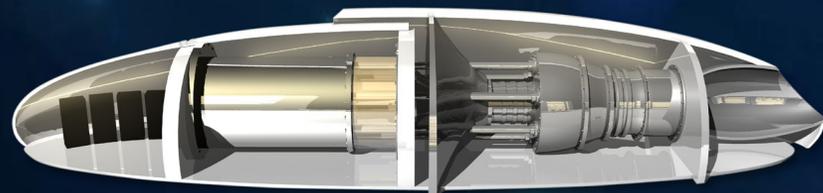
## RESEARCH

Industry Research  
Engagements



US DOE Nuclear  
Energy University  
Program

Advanced Nuclear  
Maritime Demonstrator



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# SAFETY



# Thank You

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