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# Getting to Zero Coalition

ACCELERATING THE DEVELOPMENT AND DEPLOYMENT OF  
ZERO EMISSION VESSELS BY 2030

Kasper Søgård, Head of Research, Global Maritime Forum



## Global Maritime Forum

- An international not-for-profit organization
- Committed to shaping the future of **global seaborne trade** to increase sustainable long-term economic development and human wellbeing
- Convenes leaders to discuss **collective challenges** and to work together on developing new solutions and recommendations for action
- Identifies, develops and shares **new insights** and key issues on the global agenda and facilitates collaborative projects and initiatives that can deliver long-term impact and sustainable change
- Supported by a visionary group of **leading industry partners** who share our ambition of creating a common platform to drive positive change that benefits not only their organizations and the industry, but society as a whole



## ● Shipping's emissions challenge →

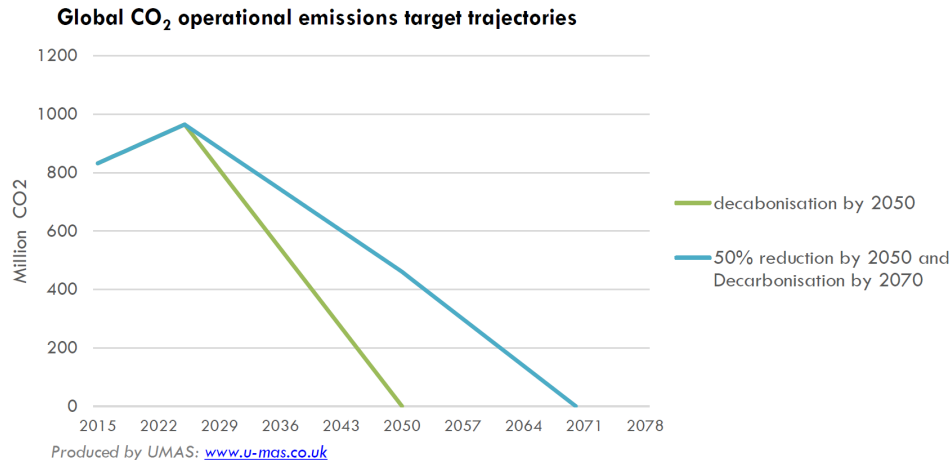
- The maritime industry uses between 250-300 million tonnes of oil annually
- It is responsible for emitting between 2-3% of global GHG emissions annually – equivalent to the emissions of Germany, the 6th biggest emitter by country
- Due to rising trade volumes, this number could increase by 50-250% by 2050 if no action is taken



# The objective

In 2018, the International Maritime Organization (IMO) released an initial strategy on reduction of GHG emissions from ships, which aims to:

- Reduce the total annual GHG emissions by at least 50% by 2050 compared to 2008...
- ...while, at the same time, pursuing efforts towards phasing them out entirely



# A combination of measures needed

2050 decarbonization (1.5°C aligned)  
Emissions (million tonnes CO<sub>2</sub>)

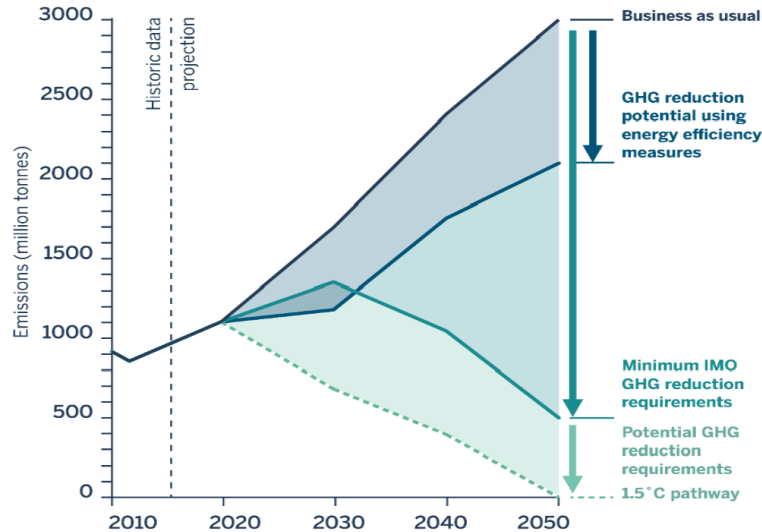
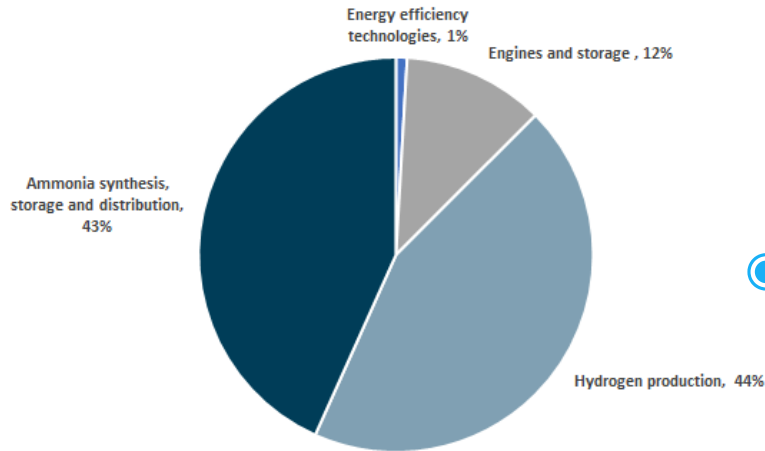


Image: UMAS

To reach the IMO's ambition,  
commercially viable  
**Zero Emission Vessels (ZEVs)**  
must start entering the global fleet by  
**2030**



# At least \$1 trillion in investments



- To achieve the IMO's ambition, a recent study found that a total of **\$1-1.4 trillion** in investments are needed – \$50-70 billion annually for 20 years
- Only **13%** of this investment is **ship-related**, the rest will be needed for land-based production facilities and infrastructure

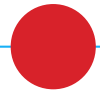
Source: UMAS & ETC



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# Launch at UN Climate Summit

23 September 2019 in New York



” To take the next big step change towards decarbonization of shipping, a shift in propulsion technologies or a shift to clean fuels is required which implies close collaboration from all parties. The coalition launched today is a crucial vehicle to make this collaboration happen. - Søren Skou, CEO of A.P. Møller Mærsk.



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# 125 Coalition Members

103 Companies  
8 Knowledge Partners  
11 Supporters  
3 Project Partners

# 14 Supporting Governments

Denmark, Belgium, Chile, Palau, Morocco, Korea, Ireland, United Kingdom,  
New Zealand, Sweden, France, Finland, Netherlands, Poland

Ambition Statement; [link](#)

As of March 10 2020





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An aerial photograph of a large solar farm, showing rows of solar panels stretching across a landscape. The image is tilted and serves as a background for the left side of the slide.

# Ambition: Getting to Zero

To reach the IMO's ambition to reduce GHG emissions from shipping by at least 50% by 2050, commercially viable Zero Emission Vessels must start entering the global fleet by 2030

## Ambition of the Coalition

To have commercially viable Zero Emission Vessels (ZEVs) operating along deep-sea trade routes by 2030, supported by the necessary infrastructure for scalable net zero-carbon energy sources including production, distribution, storage and bunkering



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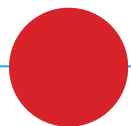
# Ambition: Transformation



## Focus on Zero Carbon

- The Coalition is focused exclusively on scalable zero carbon options for international shipping and its fuel supply chains.
- The Coalition's "zero carbon energy sources" phrase is intended to be inclusive of fuels derived from zero carbon electricity, biomass and fossil fuel feedstocks coupled with the use of CCS.
- Technologies and solutions for energy efficiency, operational efficiency, data and transparency, and near-shore shipping are commendable and should continue in parallel to this effort.





# Workstreams

1. Fuels, Technologies & Transition Pathways
2. Motivating First Movers
3. Closing the Competitiveness Gap
4. Global Opportunity for Zero Emission Fuels Exports





# 1. Fuels, Technologies & Transition Pathways



Zero Emission Fuels are the key to ZEVs. This workstream will:

- Build a common understanding of the engine and fuel storage technologies that are suitable for advancing ZEVs at scale
- Engage with future fuel suppliers to narrow the choice of possible zero emission fuels to those that show technical and economical potential for scale
- Map out pathways to scale for key fuels, along with safety implications, public perception, guidelines and required regulations for scaling up new fuels
- Identify possible ports and “corridors” that are candidates to build a constellation of bunkering hubs and trade routes to lead on decarbonization



## 2. Motivating First Movers

A group of companies and stakeholders will need to dive in to get things moving in the next 5 years. This workstream will:

- Explore policies and funding mechanisms to motivate and de-risk first mover investments in zero emission shipping
- Build the business case to unlock substantive financial investment
- Explore new business models, supply chain interactions and demand drivers that can aggregate client demand for zero emission solutions
- Develop an actionable blueprint for first movers that can help make the opportunities more tangible and catalyze concrete initiatives



### 3. Closing the Competitiveness Gap

Mass uptake of zero emissions fuels and vessels will only happen when they can compete with incumbent options. This workflow will:

- Build a catalogue of policy options drawing on work already done at the IMO and elsewhere
- Engage further stakeholders, bringing in more diverse views in evaluating policy options
- Work towards a shared understanding across the Coalition with alignment around key messages.

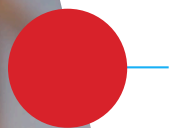




## 4. Global Opportunities for Zero Emissions Fuels Exports

There are untapped opportunities for producing marine fuels using renewable energy sources in countries around the world. This work will:

- Raise awareness and create a shared understanding about the opportunities around developing supply of zero emission marine fuels
- Map countries with the potential to generate and export zero emission fuels with deep dives on high-potential countries
- Explore possible barriers to concrete action and how to overcome these
- Explore options for how to move from mapping and analyzing towards concrete projects



Q&A







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# Thanks

- Ambition Statement; [link](#)
- Project Outline; [link](#)
- Coalition Video; [link](#)

If you wish to learn more about the Coalition, please contact Louise Dobler:  
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