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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

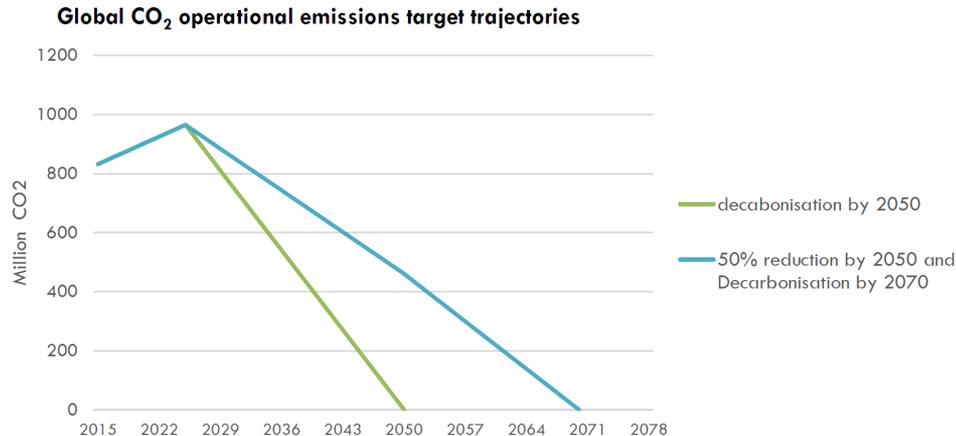
● Shipping's emissions challenge →

- 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:



Produced by UMAS: www.u-mas.co.uk

- 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 CO₂)

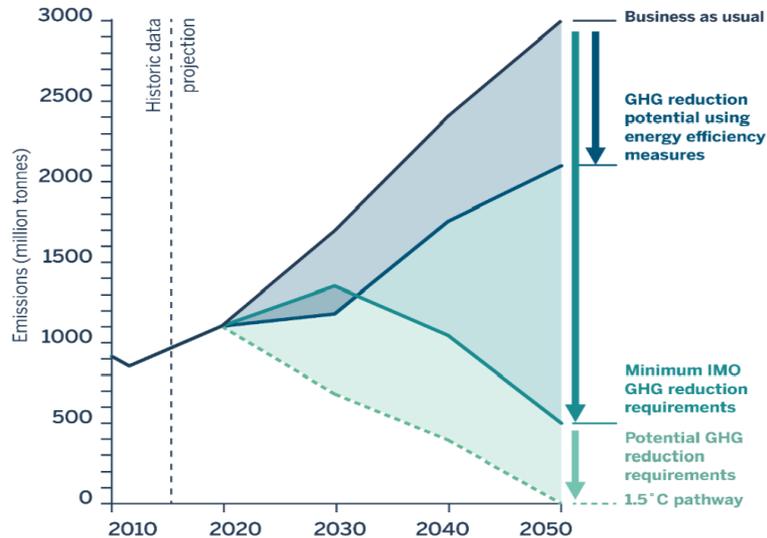
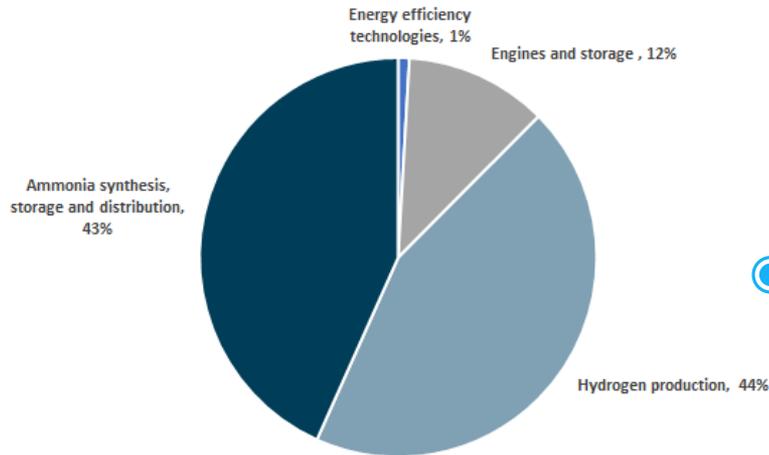


Image: UMAS

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



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.

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: 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

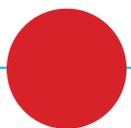
Ambition: Transformation



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 workstream will:

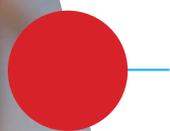
- Build a catalogue of policy options drawing on work already done at the IMO and elsewhere
- Engage further stakeholders, bringing in more diverse views in evaluating policy options
- Work towards a shared understanding across the Coalition with alignment around key messages.



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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An aerial photograph of a large container ship sailing on the open ocean, viewed from an elevated angle. The ship is filled with colorful shipping containers. A large red circle is overlaid on the image, partially overlapping the ship and the text area.

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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