

AN INITIATIVE OF THE CLEAN ENERGY MINISTERIAL

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The ENERGY-MARITIME high-level global initiative



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IMO's Strategy and Net-Zero Goals = Net-zero by 2050 Paradigm shift

- Production at scale of low and zero carbon fuels close to ports. Global regulation and cross-sectoral collaboration Dual-role of Shipping as an ENABLER of the energy transition









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Aligning Demand with Supply. Where will these low-carbon fuels come from? Clean Energy Hubs are needed.











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GAP between government announcements and real progress (low-carbon hydrogen).





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Energy Products Seaborne Trade towards low-carbon fuels 2050. To increase share of clean fuels.







International Chamber of Shipping



The ENERGY-MARITIME high-level global initiative

- Public-Private Platform across the sectors of the energy-maritime value chain (ports, energy providers, shipping, finance and governments).
- Global cross-sectoral platform to share knowledge and data to derisk investments to set up HUBS to accelerate production, transportation and use (aggregated demand) of low-carbon fuels through the maritime sector.
- **Co-led by Government & Industry** (Taskforce of CEOs of cross-sectoral stakeholders).











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ICS represents national shipowners associations, representing over **80% of the global fleet.**

IAPH members represent 60% of seaborne trade and 60% of world container traffic.

CEM members represent **90% of installed clean energy generation capacity, 80% of global clean investments.**

Taskforce members to include (energy companies, shipping companies, ports, finance).





International Chamber of Shipping



De-risking and transforming the Energy-Maritime supply chain



De-risking and transforming the Energy-Maritime supply chain

To decarbonize the world, global electricity demand will increase to **60,000 TWh**







To transition to net-zero and meet the world energy demand, the world will require to increase its renewable energy power by 18 times. Shipping will require access to these fuels to decarbonize but also to support the wider energy transition.

Nultiple sectors are looking to hydrogen and sustainable biofuels to decarbonize



Shipping will be a **MINOR** player in the Hydrogen demand by 2050 but a **KEY ENABLER** to transport these fuels.





- Shipping alone transports 80% of global trade.
- **36%** of the world's current energy is transported by sea from source to consumption.
- The International Renewable Energy Agency (IRENA) estimates that over **50%** of the trade of zero carbon fuel will need to be transported by ship from producing to importing countries by 2050.

I This means transitioning to a **low-carbon energy-maritime value chain**





This means transitioning from a mostly fossil-fuel energy-maritime value chain to a low-carbon energy-maritime value chain, modifying production, storage, transport and import infrastructure

HYDROGEN

 H_2







This aggregated demand of low-carbon fuels will require a **massive increase of renewable energy** to produce e-fuels. And particularly for that **new capacity and infrastructure to be strategically located close to a port** or access to ports.

Infrastructure located close to and with access to port facilities





Together Governments and industry will seek to establish Clean Energy Marine Hubs across the globe, **providing low-carbon fuels for all**



Governments and industry by launching the CEM-Hubs initiative under the Clean Energy Ministerial platform will seek to establish Clean Energy Marine Hubs across the globe, coordinating efforts to advance faster together in de-risking and greening the energy-maritime link and greening the global supply chains, by providing low-carbon fuels for ALL.



Governments and private sector across the value chain will share best practices to de-risk investment to accelerate production







The benefits of working together globally will be felt locally for years to come.



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Co-leading Governments



Six supporting governments













Canada

Norway

Panama

UAE

Uruguay

CONTRIBUTIONS



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- Key aspects of this transition. Why is it different now?
- Electricity represents the paradigm shift! From 0 to 3,000 Twh.
- Don't underestimate the Scale and Speed.
- No HUBS = no fuels at scale! Energy Hubs for maritime to Transport & Use low-carbon fuels.
- Shipping to play an important role for the Global Energy Transition, but it needs to be **Fast Track**!
- **CEMHubs** Collaboration across the energy-maritime value chain, best practices **6 countries** at Energy **Ministerial level**.

www.cleanenergyministerial.org

What is next?



COP28: Maritime Programme and Conference 9th and 10th of December, Dubai (Museum of the Future)

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