

DECARBONIZING SHIPPING

Getting to Zero Coalition

ACCELERATING THE DEVELOPMENT AND DEPLOYMENT OF ZERO EMISSION VESSELS BY 2030, TOWARDS FULL DECARBONIZATION BY 2050

This document presents an overview of the Getting to Zero Coalition, a partnership between the Global Maritime Forum and the World Economic Forum.

The challenge

International shipping emits 2-3 percent of global GHG emissions, transporting close to 80 percent of global trade by volume. To curb the emissions from shipping, the IMO has agreed on an ambition to reduce GHG emissions from shipping by at least 50 percent by 2050. To reach this goal and to make the transition to full decarbonization possible, commercially viable zero emission vessels must start entering the global fleet by 2030, with their numbers to be radically scaled up through the 2030s and 2040s. This will require both developing the vessels as well as the future fuel supply chain, which can only be done through close collaboration and deliberate collective action between the maritime industry, the energy sector, the financial sector, and governments and IGOs.

The opportunity

Shipping's decarbonization can be the engine that drives green development across the world. The falling costs of net zero carbon energy technologies make the production of sustainable alternative fuels increasingly competitive. Determined collective action in shipping can increase confidence among suppliers of future fuels that the sector is moving in this direction. This will translate through the supply chain into increased demand for zero emission fuels. It could also be an important point of leverage for change across other hard-to-abate sector, thus accelerating the broader energy transition.

New marine fuels, derived from abundant untapped renewable resources, could also bring substantial development gains. Ports and shipping already underpin many countries' economic growth; if shipping becomes a reliable source of demand for zero emission fuels, it has the potential to drive investment in energy projects in developing and middle-income countries.

The ambition

The ambition of the Getting to Zero Coalition, set in the Ambition Statement¹, is to have **commercially viable zero emission vessels operating along deep-sea trade routes by 2030, supported by the necessary infrastructure** for scalable zero-carbon energy sources² including production, distribution, storage and bunkering, towards **full decarbonization by 2050**.

The Coalition endorses the messages and ambition of the Call to Action for Shipping Decarbonization³ launched in September 2021, which points to the need for shipping to align with the Paris Agreement temperature goal and be run entirely on net-zero energy sources by 2050.

1 [Getting to Zero Coalition Ambition Statement](#)

2 The term zero carbon energy sources should be understood as including zero carbon and net zero carbon energy sources. See [definition of zero carbon energy sources](#)

3 [Call to Action for Shipping Decarbonization](#)

The Strategy towards 2030 and 2050

Making zero emission vessels (ZEVs) commercially viable and scalable by 2030, will require a systems view and the active involvement of all the different parts of the future value chain. Coordination between the Global Maritime Forum and the World Economic Forum is bringing stakeholders across the maritime spectrum, the energy sector, the financial sector, other related industries as well as academics, think tanks and policy makers together to develop a roadmap towards our shared ambition, identifying the technologies, investments and actions needed to get commercially viable ZEVs operating on the water by 2030.

The Strategy for the Transition to Zero-Emission Shipping⁴ sets out key milestones for the sector towards full decarbonization. These include milestones within policy, finance, demand, and technology/supply. The Transition Strategy also charts the necessary steps to achieve this, including steps that must be taken now.

The Getting to Zero Coalition 2022-2023 strategy therefore identifies the following primary objectives for the Coalition by the end of 2023:

- **Industry Action:** Through Getting to Zero Coalition engagement, industry engagement turns into concrete action, including the development of a number of deep sea green corridors with participation from Coalition members.
- **Policy Action:** Through Getting to Zero Coalition engagement, inform and support policy action, especially the adoption of a revised GHG strategy at the IMO setting a zero in 2050 target, as well as the agreement on the measures needed to ensure this in a just and equitable manner.

The two primary objectives are supported by knowledge building and dissemination, engagement with members, stakeholders, and policymakers through workshops, working groups and taskforces.

Outputs

The Coalition seeks to deliver the following:

- **A committed community.** The Getting to Zero Coalition is now a community of over 200 ambitious stakeholders from across the maritime spectrum, the energy sector and other stakeholder groups, who are committed to the decarbonization of shipping, and to working together in a collaborative manner - as opposed to a transactional manner - to deliver commercially viable ZEVs by 2030 towards full decarbonization by 2050.
- **Visible transformational leadership.** Leaders of the participating companies and organizations use the Coalition as a platform to advocate and actively influence their peers and policymakers to support ambitious decarbonization of the shipping industry and its supply chain. Specific events aligned with various international processes are being used as launch points, including the COP of the UNFCCC and the MEPC of the IMO. The public leadership will continue to gain momentum through other high-profile events as noted above.
- **Shared knowledge base.** The Coalition delivers targeted synthesis reports required to advance the work of the Coalition and the decarbonization of shipping in general.⁵ These

4 [Transition strategy](#)

5 [Full list of Getting to Zero Coalition resources](#)

help drive sector-wide alignment around zero emission fuels and technologies as well as health and safety standards and regulations that will be needed for their successful implementation. Knowledge sharing and awareness raising also relates to the development of relevant policy frameworks, green corridors and pilots and demonstration projects. An equitable and inclusive transition is key for progress and more knowledge is needed to provide for this. This work includes synthesis of existing research for specific audiences and events – business executives, financiers, insurers, as well as regulators and governments – building on the many excellent reports that have been published by the partners and many others. Additionally, there is a need for new analyses that map demand for new fuels over time so that fuel suppliers can respond, and analysis that aggregates this demand across multiple industries (e.g. hard-to-abate sectors) that will undergo similar changes in energy supply.

- **Demonstrations, pilots, and green corridors.** Finally, there is a need for more demonstrations, pilot projects, and testing, as well as green corridors, in all regions. By bringing stakeholders together and sparking conversations with innovators, the Coalition seeks to catalyze demonstrations across industries, along value chains, including knowledge sharing and associated case studies, and pre-competitive lessons from the wide range of existing pilots to inform what is possible – and what is not.⁶⁻

Stakeholders

The Getting to Zero Coalition includes the most ambitious stakeholders from across the maritime spectrum, the energy sector, think tanks, and governments.

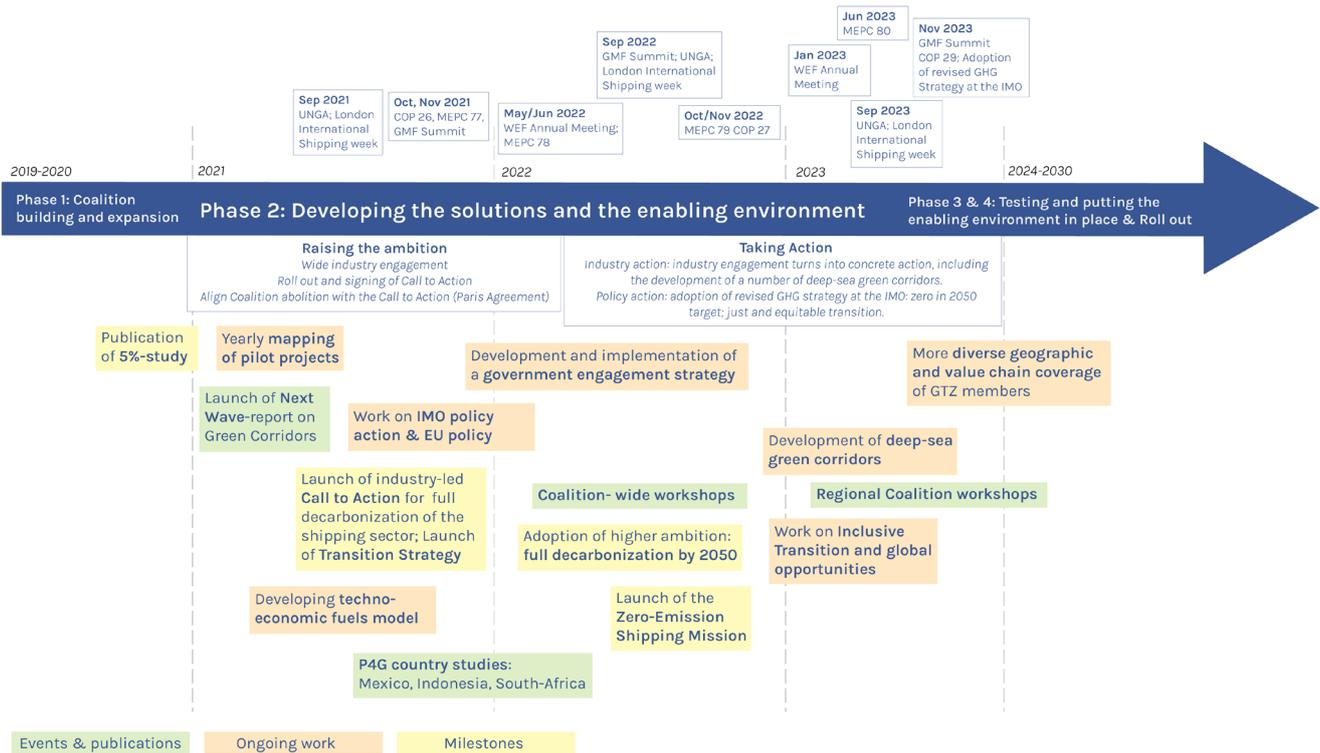
- Oil & gas incumbents
- Electrical utilities
- Renewable energy technology suppliers
- Infrastructure companies
- Port authorities
- Ship builders
- Engine manufacturers
- Shipowners and operators
- Charterers and cargo owners
- Customers
- Financial institutions
- Relevant NGOs and think tanks and academia
- Policy makers, governments, and IGOs

This concept lays the foundations for an action plan that engages stakeholders from across the maritime, fuels, and infrastructure value chains committed to making the vision of decarbonized shipping a reality by focusing on getting ZEVs into operation at scale by 2030 towards full decarbonization by 2050.

Timeline

The Getting to Zero Coalition is intended to be a multi-year initiative that will run through 2023 in two phases, with two further phases mapped out to 2030. These are as follows:

- **Phase 1: 2019-2020** - Building and expanding the Coalition base
- **Phase 2: 2021-2023** - Developing the solutions and the enabling environment
- **Phase 3: 2024-2027** - Testing and putting the enabling environment in place
- **Phase 4: 2028-2030** - Getting ready for roll-out



Governance

The Getting to Zero Coalition is an industry-led platform for collaboration organized as a partnership between the Global Maritime Forum and the World Economic Forum. The partners are supported by knowledge partners such as UCL Energy Institute, Environmental Defense Fund Europe, and the Energy Transitions Commission.

After three years, the Coalition already engages more than 200 members.⁷ A Strategy Group provides strategic direction for the Coalition and represents a range of Coalition members across sectors and geographies. In addition, working groups and taskforces are established as needed to identify and drive actionable solutions and meet the ambition of the Coalition. They include at least one Knowledge Partner and one Industry Member and receive project management and coordination support from the Project Team.

How to join

Coalition members must commit to contribute actively to the work of the Coalition in line with the Industry Roadmap.⁸ The impact and activity of the Coalition depends on the active support of its members in terms of engagement and active participation, in-kind contributions, as well as funding some pieces of the Coalition’s work. To become a member of the Coalition a company or organization must adhere to the ambition and core principles of the Coalition set out in the Ambition Statement and the Call to Action for Shipping Decarbonization. Membership in the Coalition is upon invitation.

- 7 [List of Coalition members](#)
- 8 [Industry roadmap](#)