

GAMMA – Greener Transport and Trade

The International Maritime Organisation (IMO) has set a goal for the maritime sector to reduce the industry's greenhouse gas emissions to around net-zero by 2050.

The five-year GAMMA project will contribute to this by the innovative development of a bulk carrier to sail on climate-neutral fuels and green power.

GAMMA Innovation

In the project, an innovative fuel system will be installed. Ammonia and green methanol will be bunkered on-to the ship and then converted into hydrogen with cracker and reformer technologies. The hydrogen will be purified and then converted into electricity with a fuel cell, which will be providing electric energy to the vessel and thus replacing the use of the auxiliary generators running on fossil fuel.

In addition to that, the partners have gone further, since part of the energy necessary to convert to hydrogen will be supplied by renewable energy, in this case PV panels, which will be installed on the hatch covers of the bulk carrier.

About

The project began in January 2024 and will run for five years. The innovation project has received €13 million in support from the European Commission's Horizon Europe framework programme for innovation.

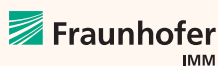
The total budget is €17 million, and Gamma stands for Green Ammonia and Biomethanol fuel Maritime Vessels and involves 16 partners from Europe:



"The GAMMA project will provide the most advanced vessel's performances and environmental quality without compromising on operation effectiveness and flexibility of our ships."

Alex Albertini, CEO, ANT Topic Srl.

Partners:



Get in touch with GAMMA

www.green-gamma.eu