

The aim of the project

The NH3CRAFT project will develop a next generation sustainable, commercially attractive and safe technology for high-volume storage and transportation of ammonia as fuel on-board ships. The project will focus on ammonia storage system design and demonstration on the case ship, including five desktop study case ships and scale up study.

The process will be realized by developing new design methodology that will offer the feasibility of 1,000 m³ storage of ammonia (NH₃) in liquid form at a pressure of 10 bar and demonstrating it on a multi-purpose general cargo vessel. In addition, for ensuring the wider applicability and refinement of the developed methodology, five (5) different type of vessels and corresponding fuel-storage tanks concepts will be studied and documented.



NH3CRAFT will help Europe pursue two parallel societal objectives: serving the society's needs and maintaining global maritime leadership.



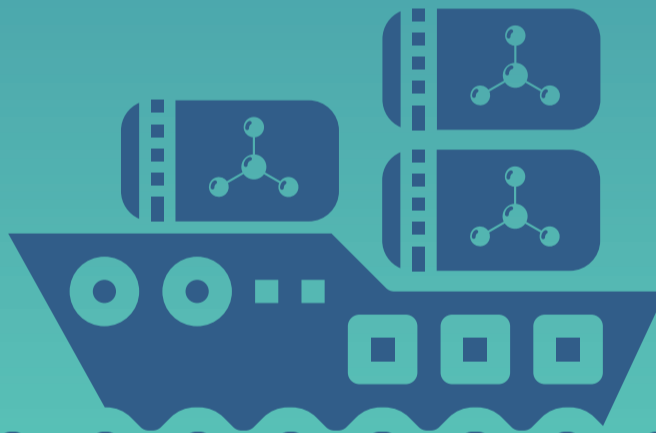
The vision is to pioneer the reduction of GHG emissions by at least 50% by 2050.



NH3CRAFT will provide major impacts on Europe's innovation-driven industry providing highly skilled jobs, efficient technological solutions, and international regulatory standards.



Safe and efficient storage of ammonia within ships



The objectives of the NH3CRAFT project are divided into six groups

1

Safe and efficient storage of large quantities of NH₃ as fuel on-board vessels

2

Cost reduction on the retrofit of current fleet through modular design-based methodology

3

Control of complexity by modular and scalable structural integration of fuel tanks (on-deck & hull-integrated)

4

Shorter development times through interconnected digitalized tools

5

Promote implementation of NH₃-fuels with new pertinent technical rules

6

Reduce the environmental footprint of the fleet

The balanced and comprehensive consortium comprises of **12 beneficiaries** from **6 different Member States** and includes IACS Classification Societies, major Engineering Designers and Consultancies, leading Technical Universities, Industrial Partners and SME's, and one of the largest Ship Management Companies globally.

