



AMMONIA ENERGY
ASSOCIATION

Demand Centers for Low-Emission Ammonia IV: Global Shipping

30 MTPA is 5% of total shipping fuels: Tipping point in 2030

13 November 2024
Ammonia Energy Association

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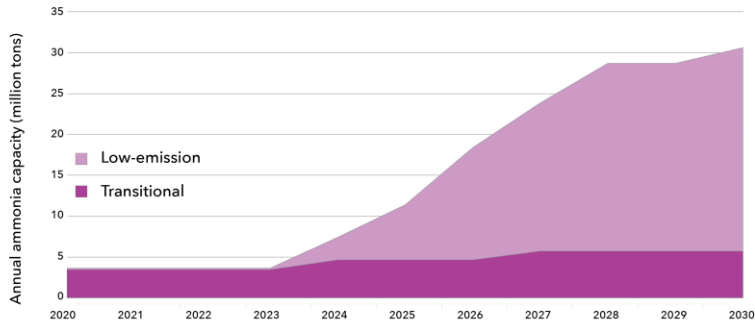
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Tipping point in 2030

- By 2030, 30.6 million tons per annum (MTPA) of low-emission (and transitional) ammonia capacity is expected to be operational, based on the projects that are Operational, Firm, and Mature in the LEAP database.
- The AEA tracks 263 Ammonia-fueled & Ammonia-ready Vessels, of which 96 are Ammonia-fueled Vessels, and 167 are Ammonia-ready Vessels. Ammonia-fueled engines are available and the IMO guidelines are in place.

Low-emission and transitional ammonia plants

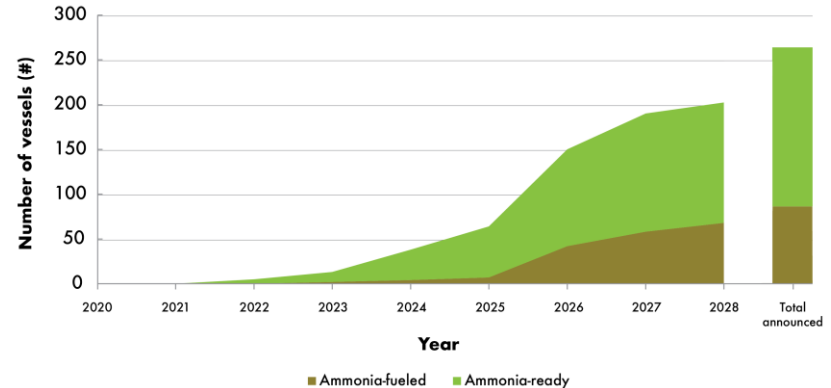
By category (Operational, Firm, Mature): 30.6 million tons of ammonia by 2030



Global Project List: Low-Emission Ammonia Plants, Ammonia Energy Association (data from August 2024). Firm: Projects that have taken FID. Mature: Projects in the FEED phase.

Ammonia-fueled and ammonia-ready vessels

Global announcements: 96 ammonia-fueled and 167 ammonia-ready vessels



Global Project List: Ammonia-fueled Vessels, Ammonia Energy Association (data from September 2024)