

Clean Fuel Ammonia Association (CFAA) and its Initiatives

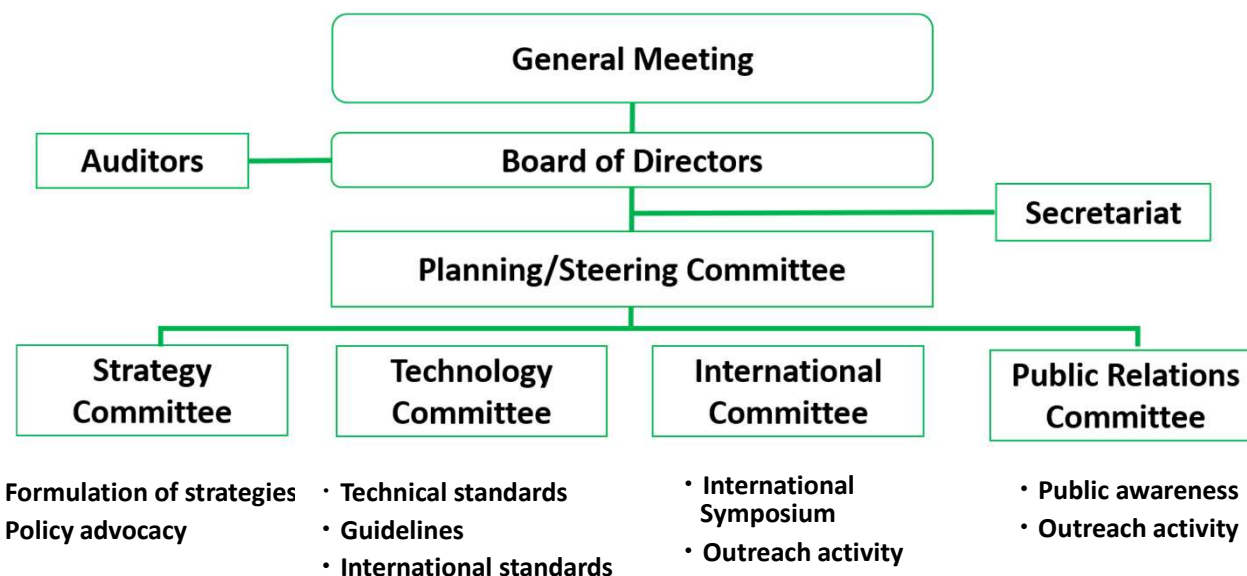
Establishment

- 2014～2018 : In pursuit of a hydrogen society, the Cross-ministerial **Strategic Innovation Promotion (SIP)** Program was implemented.
- April 1, 2019 : Green Ammonia Consortium (as an independent **General Incorporated Association**)
- January 14, 2021 : **Clean Fuel Ammonia Association (CFAA)**(name was changed)

Objectives

- Contribution to the realization of a **hydrogen/ammonia society** by aiming to mitigate global warming and enhance energy security, under the recognition that ammonia is a **promising hydrogen energy carrier**
- Establishment of **value chains** that focus on **using clean ammonia fuels and raw materials** to contribute to the achievement of a low-carbon society

Organization Structure



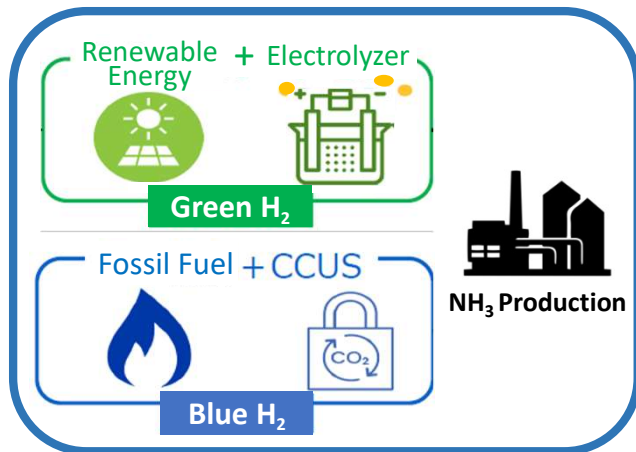
Members

Regular Members **158** (Board Members **15**, General Members **143**), Associate Members (foreign company) **33**, Advisory Members **48**, Honorary Members **2**, Associate Members (Individual) **9**, Total **250**

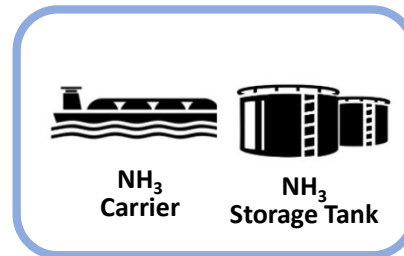


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Production



Transportation Strage



Utilization

Power Generation



- Thermal Power Boilers
- Gas Turbines

Maritime Transportation



NH₃-Fueled Vessel

Industries



Industrial Furnaces



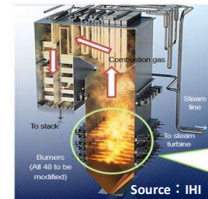
Heat Supply

H₂ Supply



NH₃ Cracking

2024
Demonstration completed for a 20% substitution ammonia at 1,000MW Coal Power Station



Source : IHI

2025
Demonstration completed for a 2 MW-Class 100% Ammonia-Fired Gas Turbine



Source : IHI

2023
Ammonia Combustion Demonstration completed in a Glass Melting Furnace



Source : AGC

2024
Ammonia Combustion Demonstration completed in a Naphtha Cracking Furnace



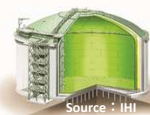
Source : IHI

2026
Completion of 40,000 m³ Ammonia-Fueled Ammonia Carrier



Source : NYK Line

2026
Construction of a 40,000-ton-class Storage Tank, Underway



Source : IHI

