

IHI's Activity for Development of Fuel Ammonia Supply Chain

Takuya HIROSE
AIF2023 Market Days Event
November 2023, Marrakech, Morocco

Rely on good experience with

steinmüller engineering

The Engineers Company

IHI & Steinmüller Engineering

IHI Corporation / Japan



Year of establishment

1853



Capital

~720 million \$



Revenue(Consolidated)
(Fiscal 2022)

~9.06 billion \$



Number of employees
(consolidated)

28,801



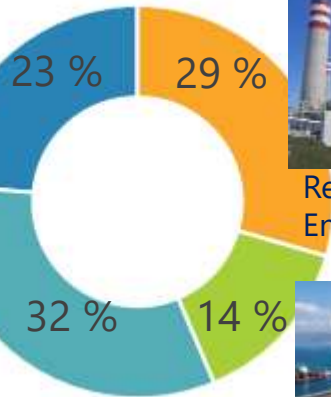
Overseas affiliates

142

Revenue Composition



Aero Engine,
Space & Defense



Resources, Energy &
Environment

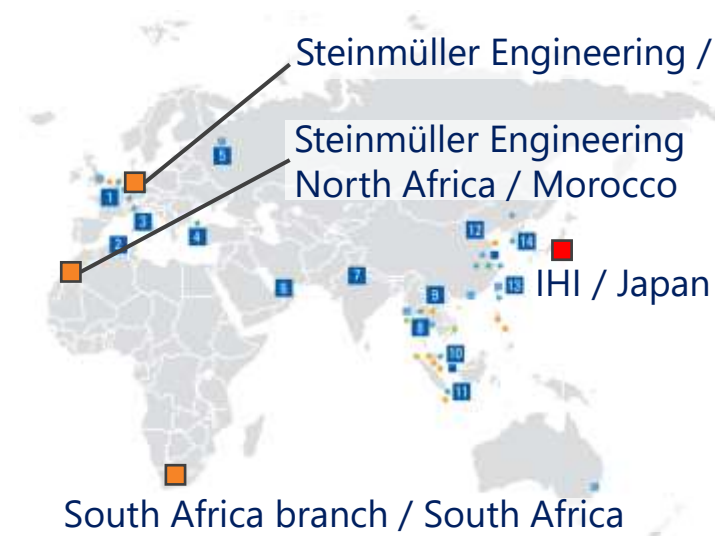


Industrial Systems &
General-Purpose Machinery

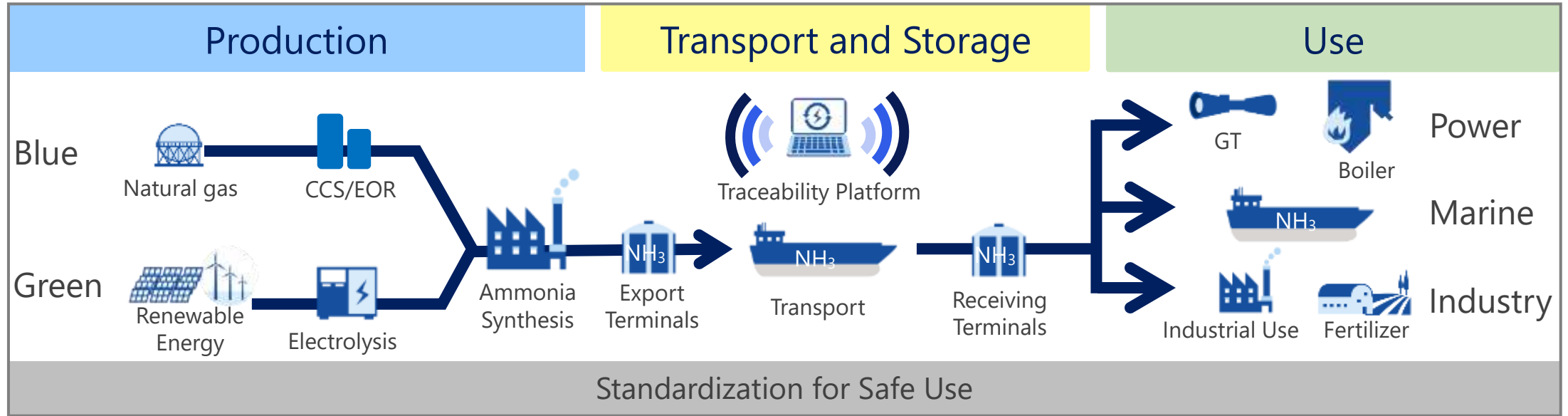


Social Infrastructure

Steinmüller Engineering GmbH / Germany



Building Fuel Ammonia Businesses Through New Value Chains



IHI's ongoing activities

<p>Production</p> <p>Green Ammonia Production</p> 	<p>Production</p> <p>Direct Synthesis</p> 	<p>Storage</p> <p>Large scale storage</p> 	<p>Use</p> <p>Power / Marine / Industry</p>  <p>7F.05: Source: GE</p>
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Gas Turbine using 100% Liquid Ammonia

The world's first gas turbine using 100% liquid ammonia

IHI has succeeded in reducing greenhouse gases by over 99% during combustion of liquid ammonia in a 2,000-kilowatt-class gas turbine achieving truly CO₂-free power generation.

Looking forward, IHI will further reduce NO_x levels, improve operability, evaluate long-term durability, and proceed with efforts toward the practical application of a 100% liquid ammonia combustion gas turbine in 2025.



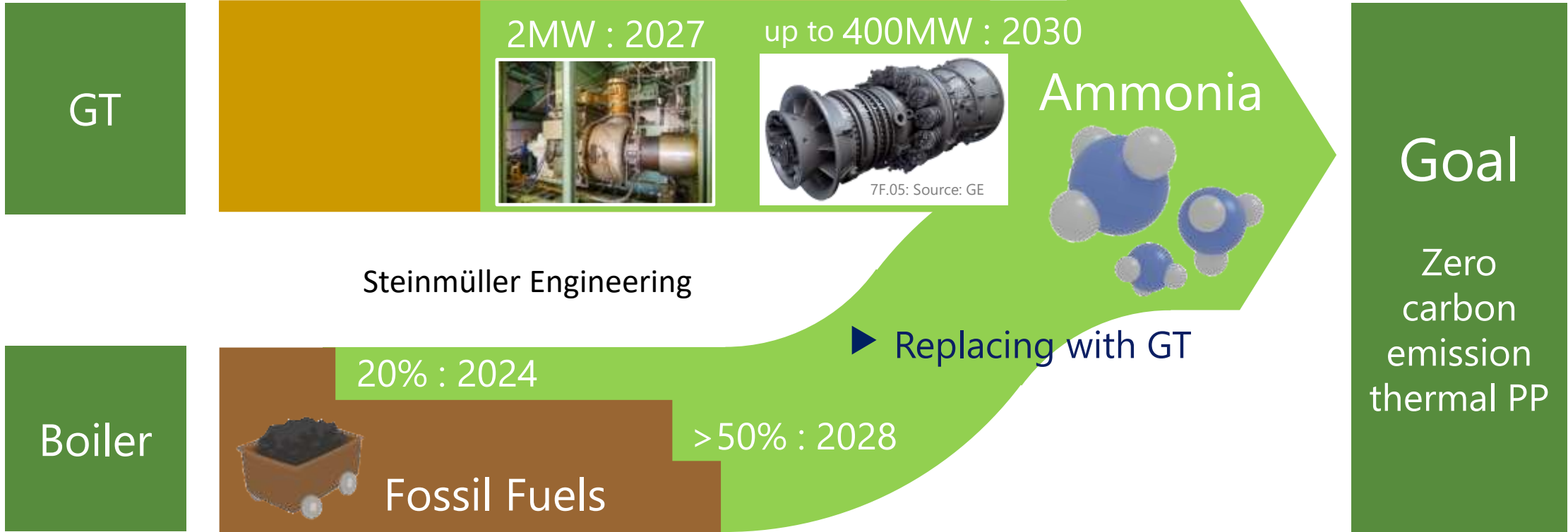
Press Release Jun. 16, 2022

https://www.ihi.co.jp/en/all_news/2022/resources_energy_environment/1197938_3488.html

NEDO : JPNP21020

IHI Roadmap Towards Decarbonization of Power Sector

▶ Retrofit of Ammonia firing



▶ Stepwise increase of co-firing ratio toward zero CO₂ emission

