

Oct 6, 2022

Innovation for Cool Earth Forum

NEDO Green Innovation Fund Projects Symposium

“A Challenge toward Global Supply Chain Carbon Neutrality”

***Development of “Integrated Project”
with ammonia as marine fuel***

ITOCHU Corporation
Green Innovation Business Unit



I am One with Infinite Missions

1. Introduction

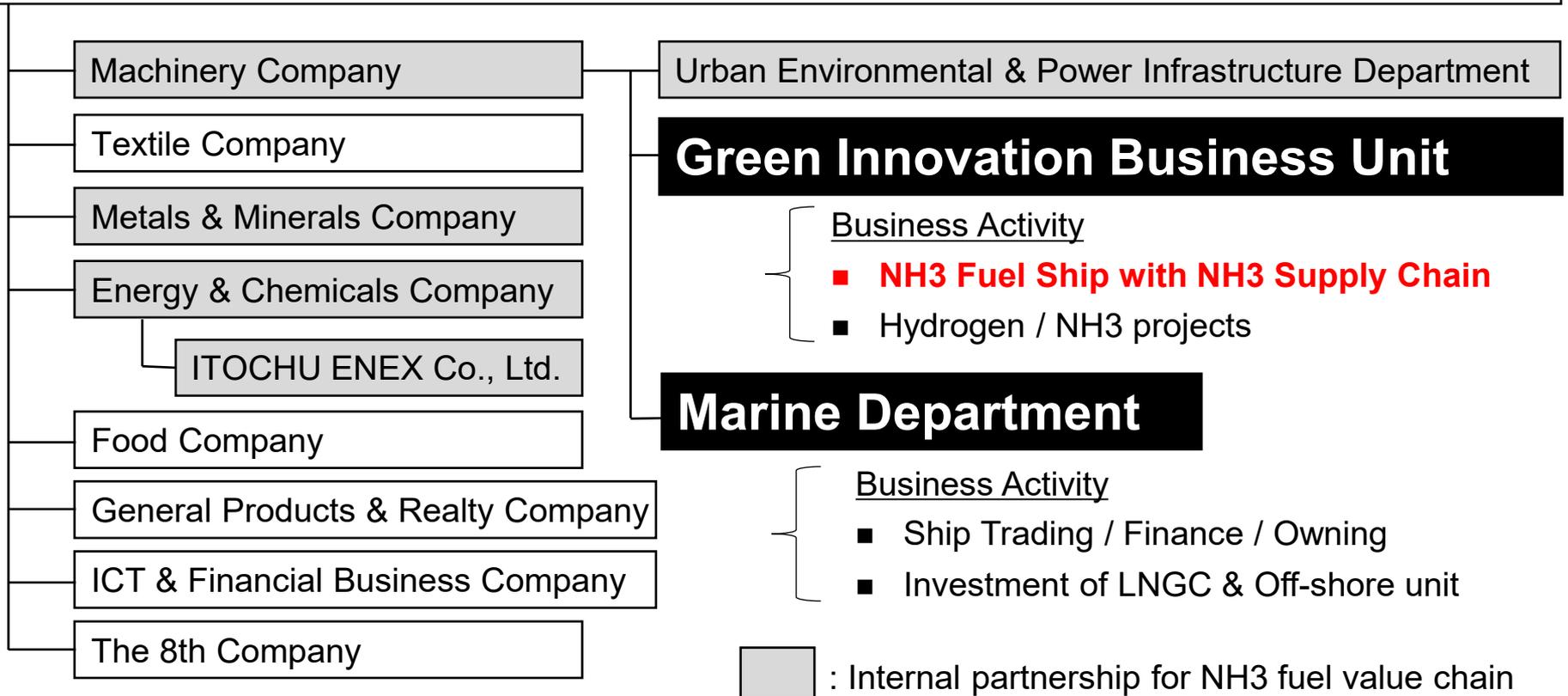


Founded : 1858 (incorporated 1949)

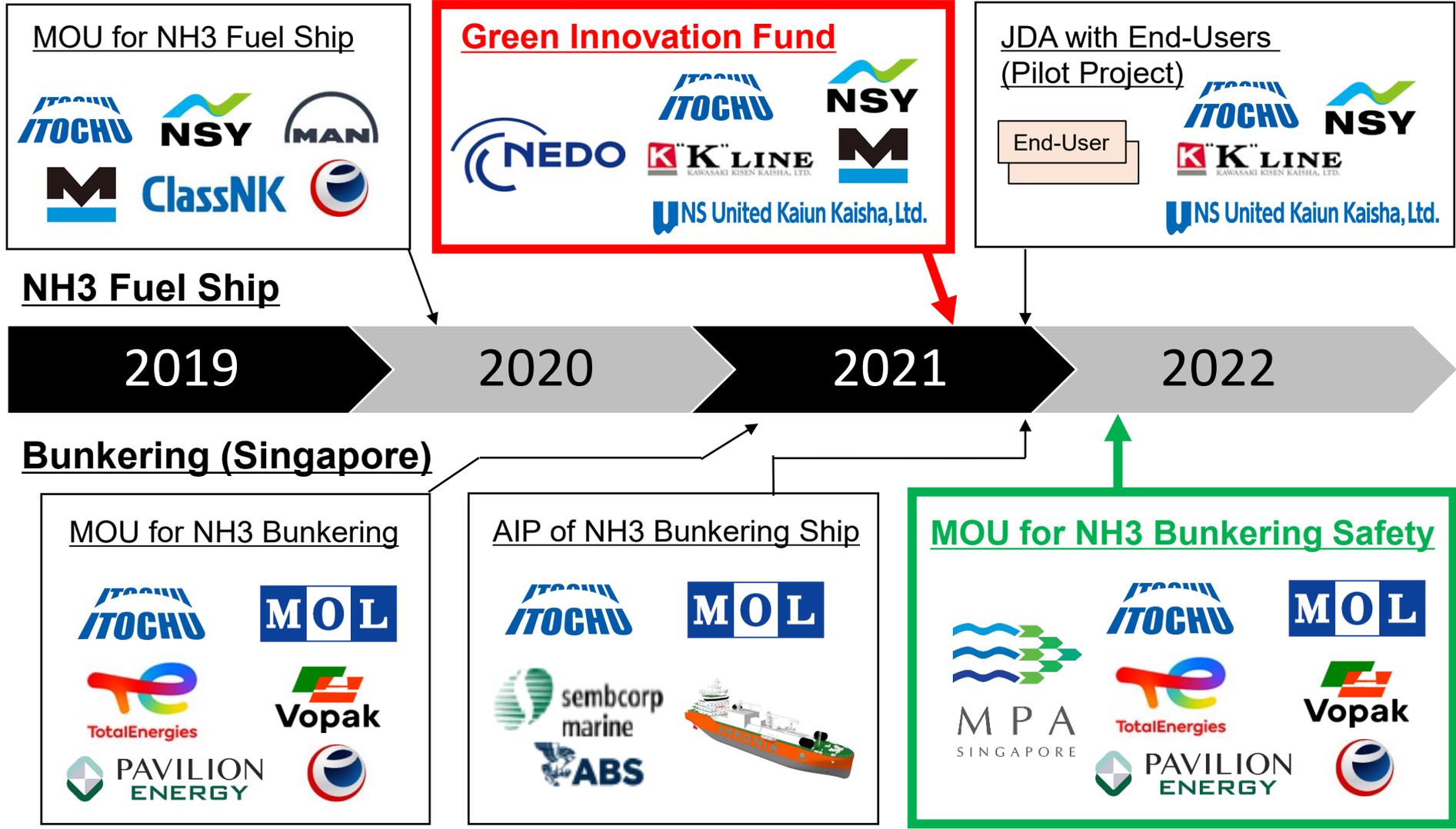
Number of employees : 4,319

Number of offices: 94 (oversea) & 9 (domestic)

Website: <http://www.itochu.co.jp>



2. Development of Integrated Project

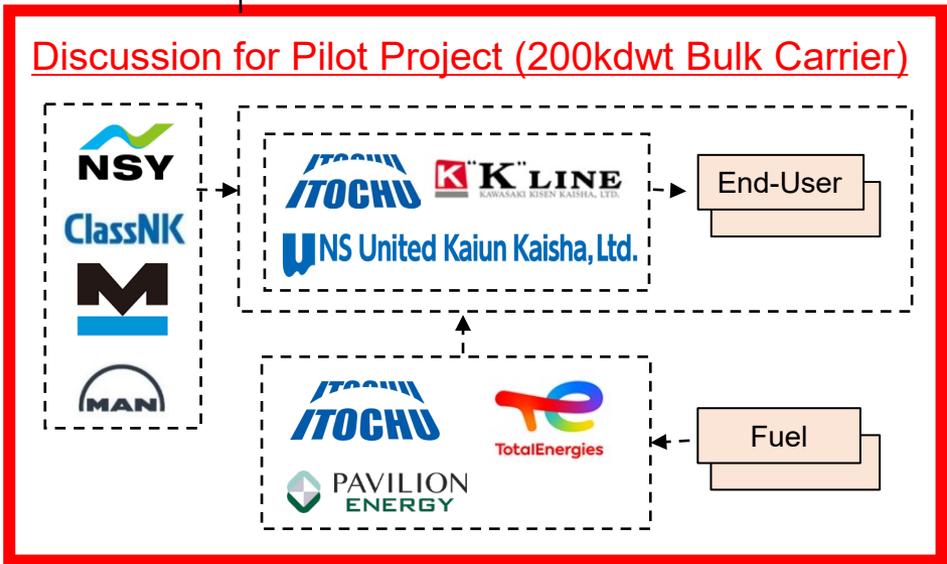
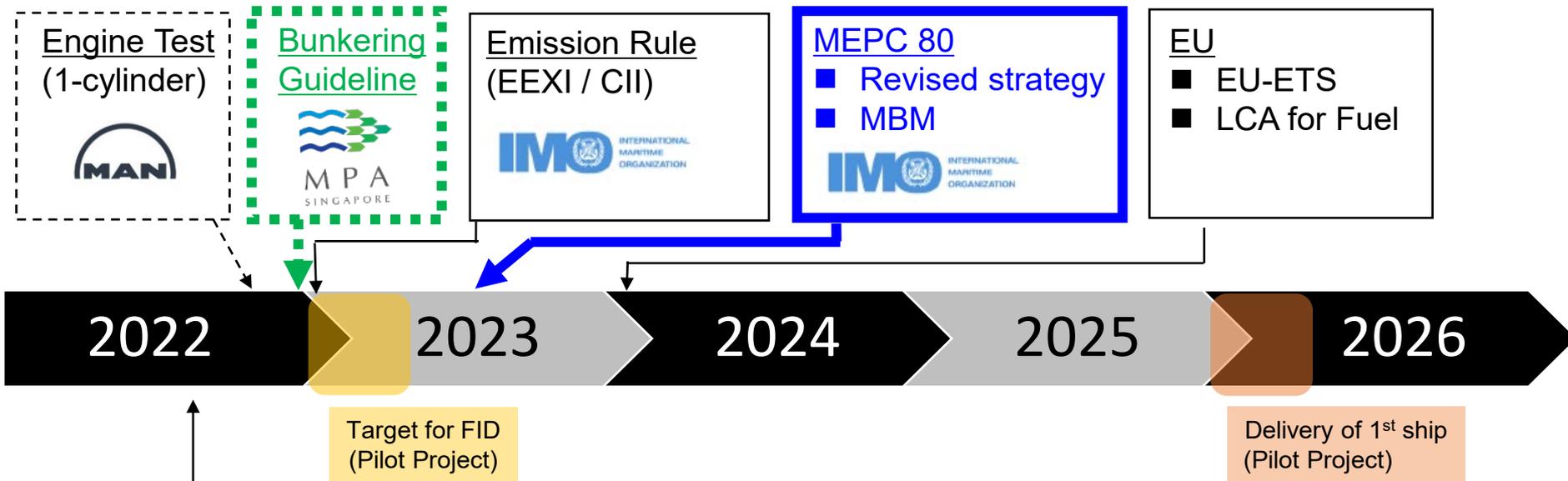


3. Frameworks of JOINT STUDY



- ✓ Original JOINT STUDY (established in 2021) for Common Issues, i.e.
 - A) Safety for NH3 Fuel Ship
 - B) Safety for NH3 Bunkering
 - C) NH3 Fuel Specification
 - D) NET CO2 emission of NH3
- ✓ Support from various companies, authorities, organization as experts for some category with around 40 sessions.
- ✓ After Original JOINT STUDY program in 2021, ITOCHU proposed “Joint Session” as to item B) with separated framework of JOINT STUDY with port authorities for NH3 Bunkering Safety (established in 2022).
- ✓ ITOCHU established Working Group to focus on “Key Factors” for NH3 Bunkering among limited parties of JOINT STUDY.

4. ITOCHU's Plan for next step



- ITOCHU's Plan after Pilot Project**
- 2nd Project with 200kdwt Bulk Carrier
 - Development for other ship type
 - Development for other bunkering port

- KEY FACTORS for "decarbonization"**
- Commitment for "NET ZERO"
 - Demand of End-Users
 - Fair Value of "zero-emission shipping"

THANKS