

Wirtschaftstag Japan 2023

Energy Transition

engaged!

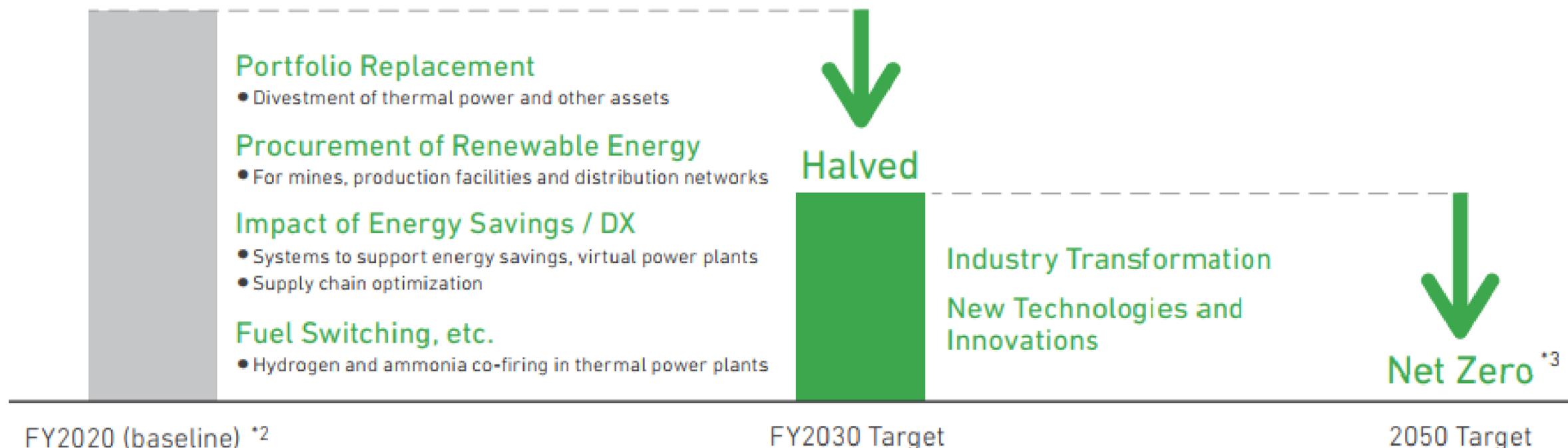
Martin Heins
Deputy General Manager
Energy Service Department



About Us

- **Established 01.07.1954**
- **1,700 groups companies**
- **80,728 employees consolidated**
- **Revenues : 21,572 billion (¥) = ca. 160 billion (€)**
- **Greenhouse Gas Reduction Targets by renewables and alternative fuels (2030), and embracing new technologies and innovations (2050)**

25.30 MMTCO₂e^{*1}

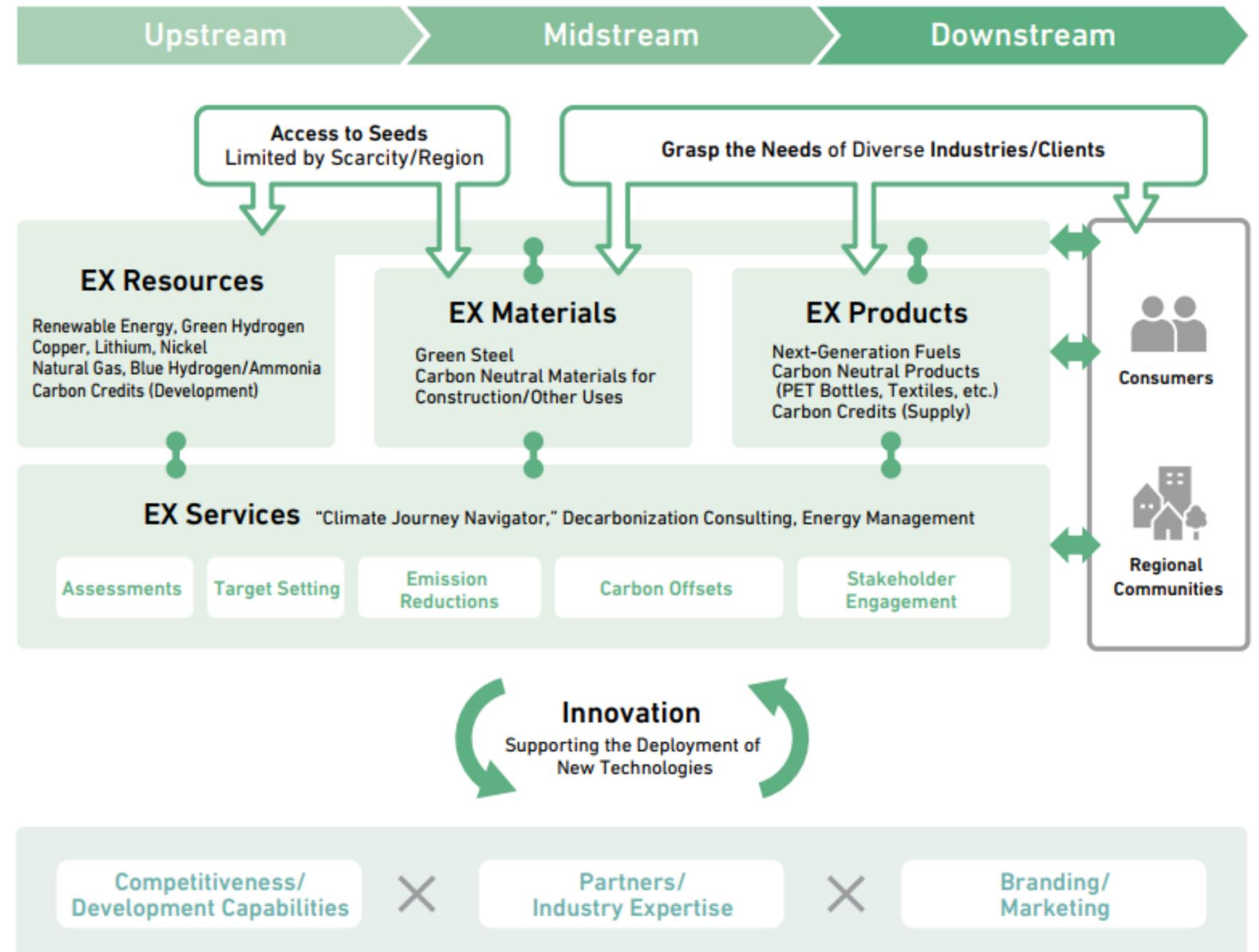


Mitsubishi Corporation



Fostering New Industries

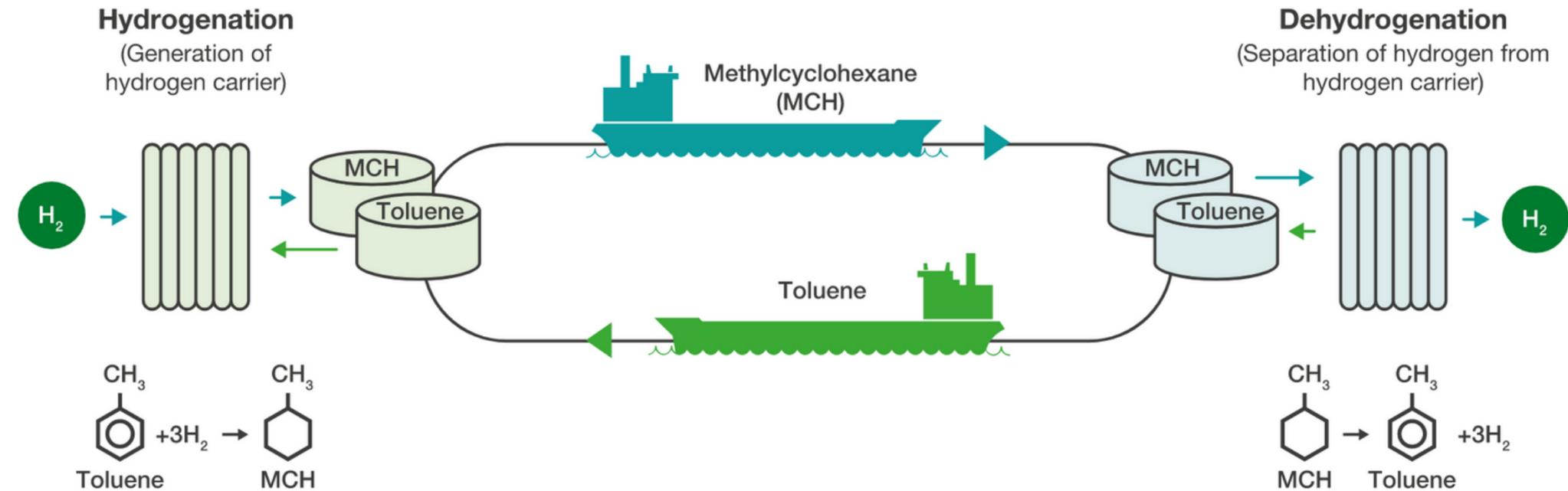
Aim to Become a Decarbonization Solution Provider



SPERA Hydrogen™



Liquid Organic Hydrogen Carrier (LOHC) with MCH



SPERA Hydrogen™ is a technology to transport and store hydrogen utilizing Methylcyclohexane (MCH), which is Liquid Organic Hydrogen Carrier (LOHCs.)

Low risk: safe storage and transportation, equivalent level to petroleum products, using existing safety standard and regulation.

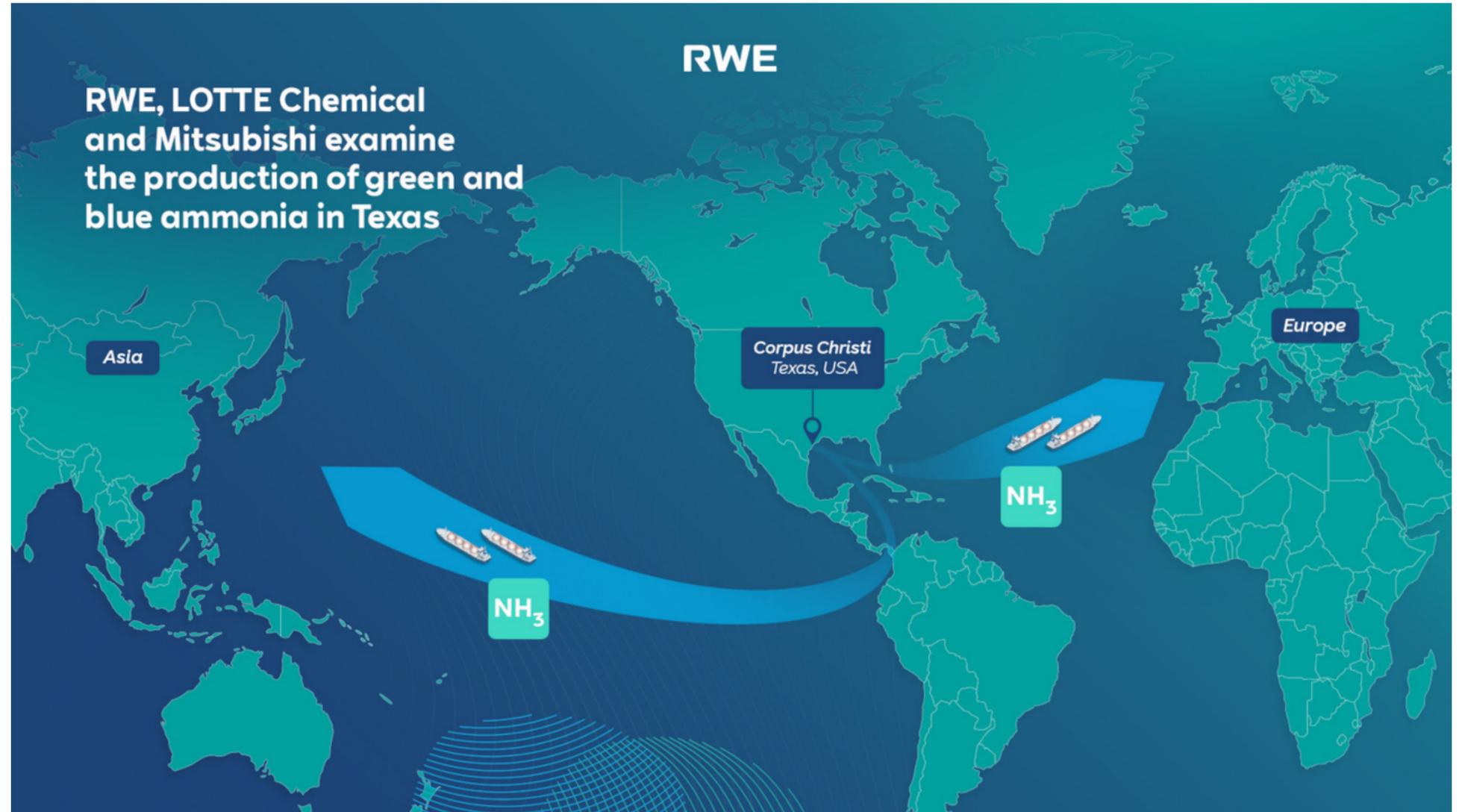
Lower CAPEX: it is feasible to repurpose existing petroleum infrastructure, thereby lowering CAPEX in its transportation and distribution

Clean Ammonia

Strategic alliance to jointly develop stable and large-scale green and blue ammonia supply chains in Asia, Europe and the US

First production by 2030

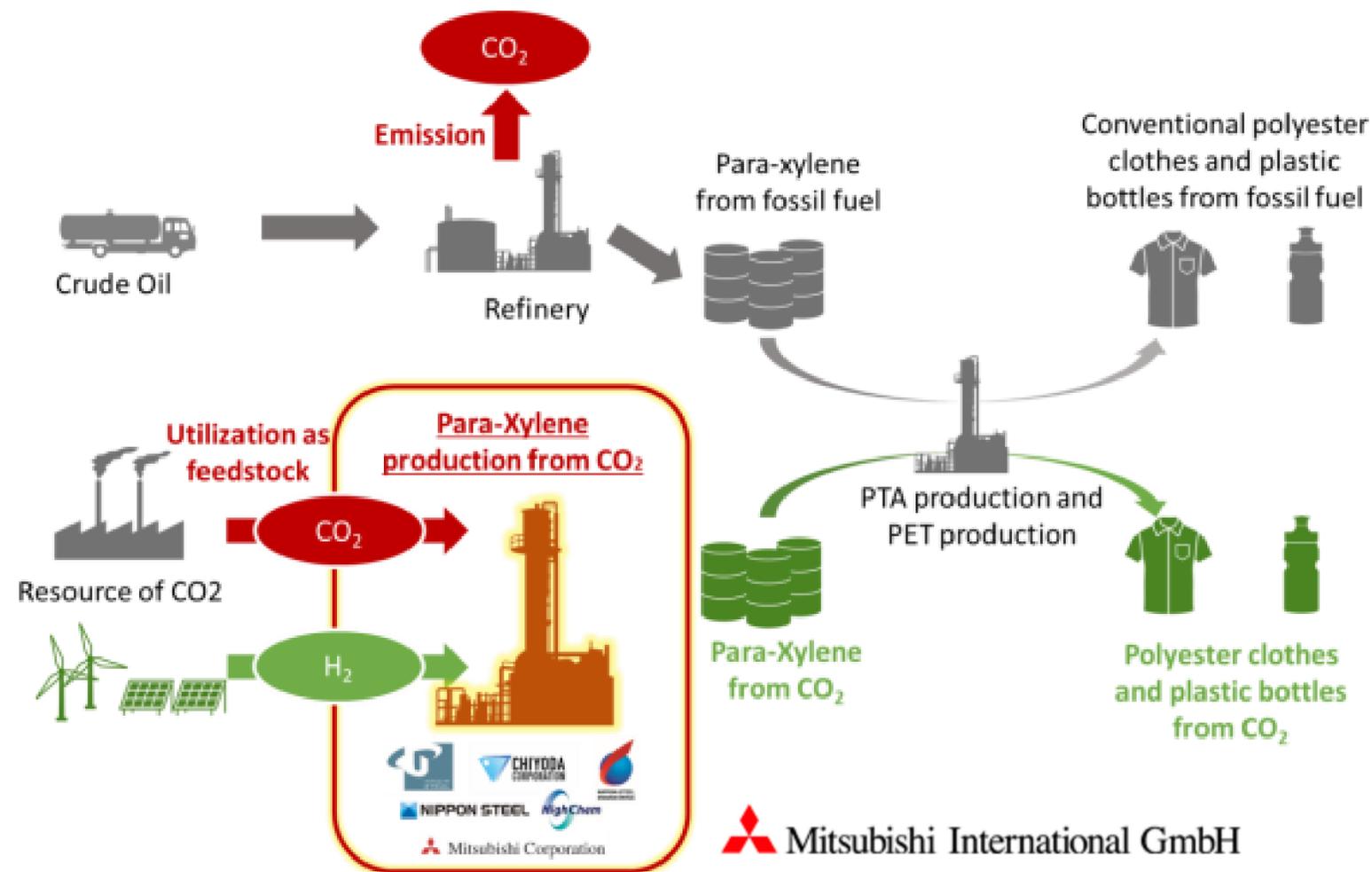
Target 10 mio/tons clean ammonia per year



Green Material



Green para-xylene (PX) is produced from CO₂ and green hydrogen, to substitute existing fossil fuel-derived chemicals
Applicable to resins and chemicals via purified terephthalic acid (PTA)
Innovative catalyst: less reaction steps, reduction of production costs
Integration: green PX process suits the existing downstream supply chain



Arigato
Vielen Dank
Thank you



martin.heins@mitsubishicorp.com

Martin Heins
Deputy General Manager at
Mitsubishi Corporation

