

Current Status of Sustainable fuel Technologies Development in Japan

Shintaro Matsumoto

NEDO JAPAN

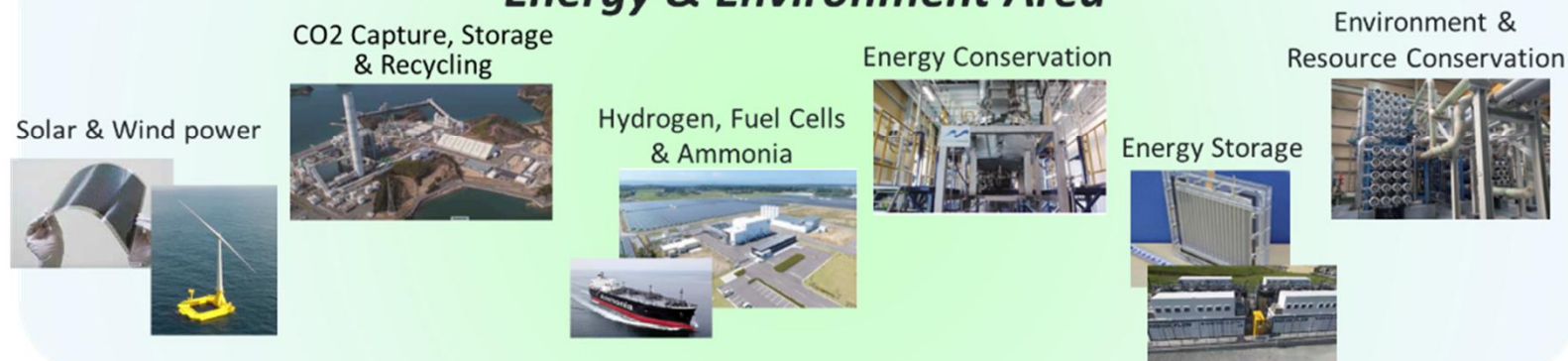
18/02/2026

- **New Energy and Industrial Technology Development Organization (NEDO)** is the **largest governmental funding agency in Japan**.
- Support environmental and industrial technology R&D projects worldwide, with approximately 810 Million Euro for annual budget and 58 Billion Euro fund.

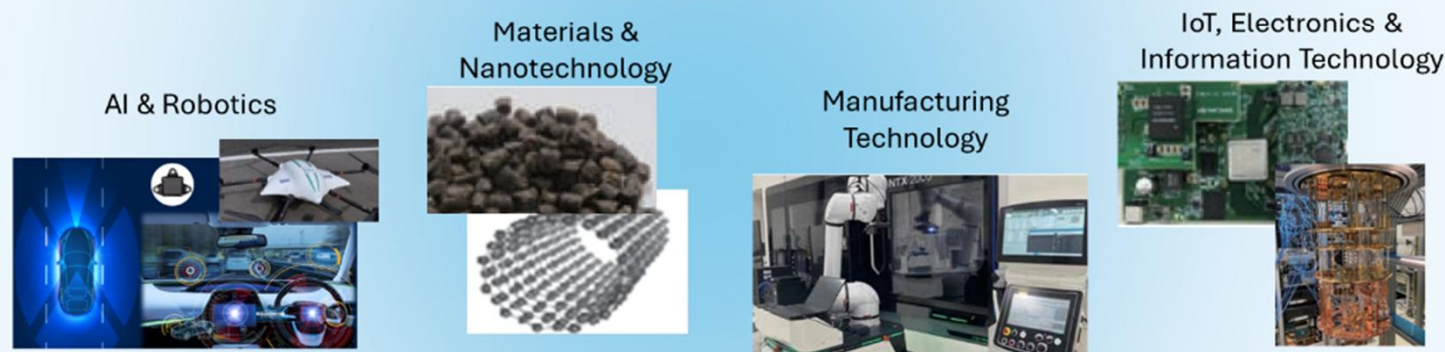
Covering a Wide Range of fields

(1 Euro= 185 JPY)

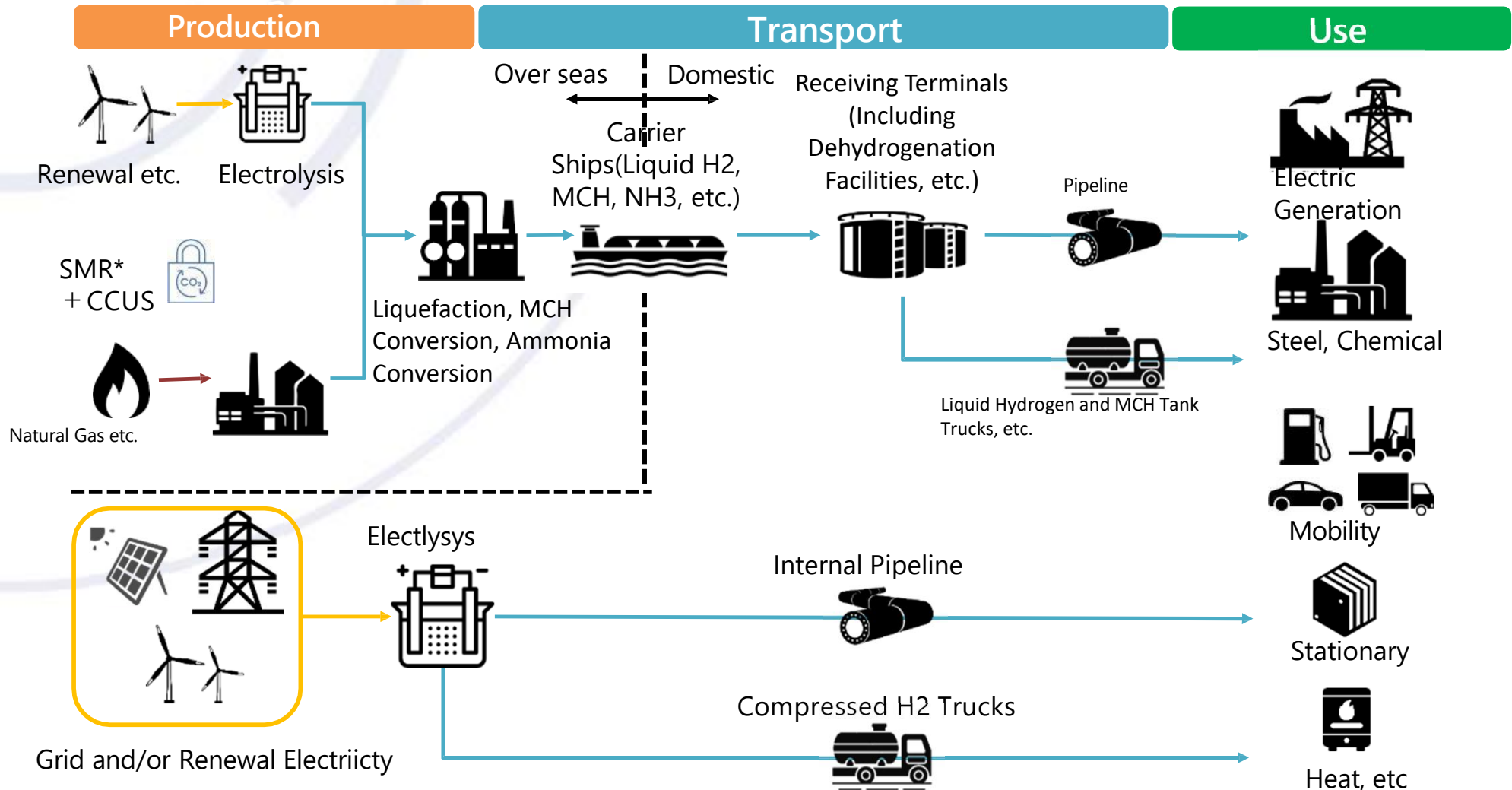
Energy & Environment Area



Industrial Area

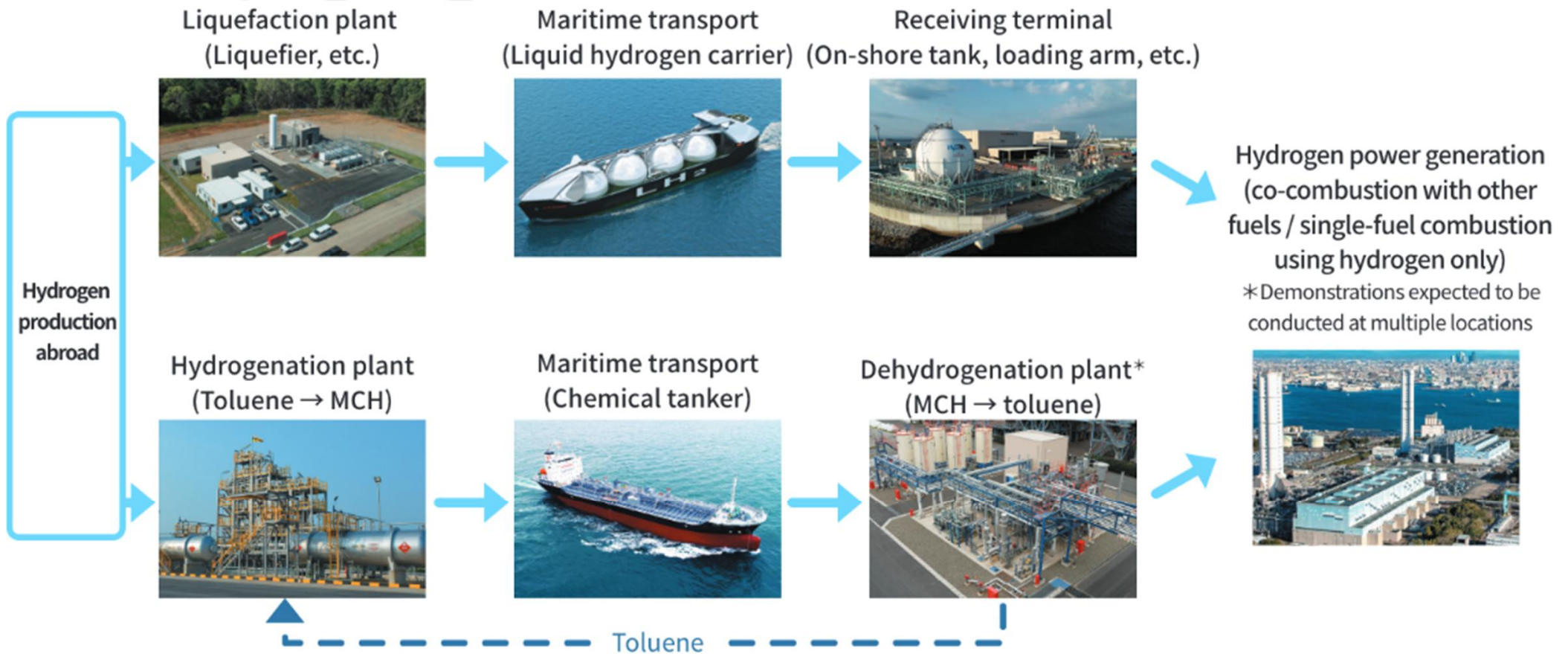


Overall Picture of the Hydrogen and Ammonia Value Chain



Ref. https://www.meti.go.jp/shingikai/enecho/shoene_shinene/suiso_seisaku/pdf/002_01_00.pdf

Large-scale Hydrogen Supply Chain Establishment



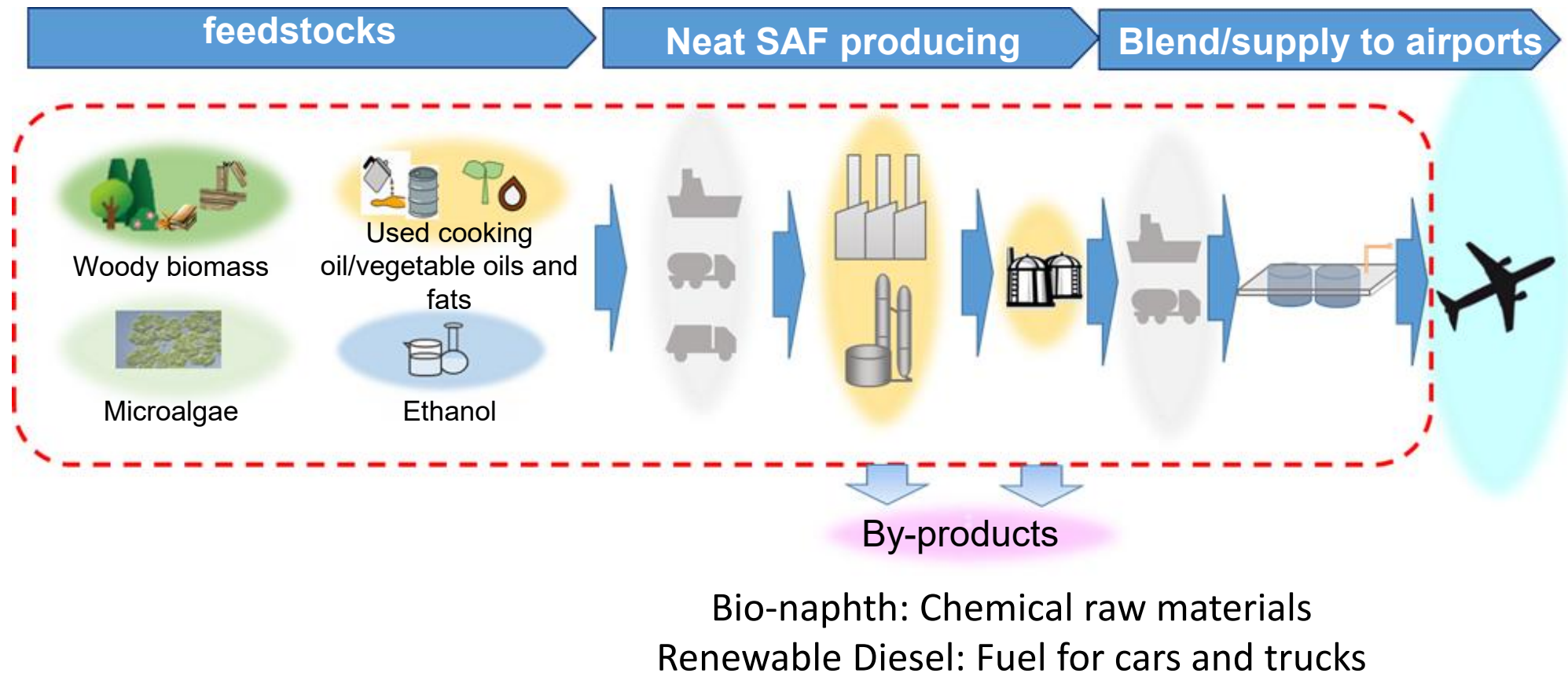
*Oil refineries and other existing facilities are expected to be utilized to the maximum
 Source: Created by the Agency for Natural Resources and Energy based on the websites of HySTRA, AHEAD, etc

Overall Picture of the SAF(Bio jet fuel) Value Chain

✓ Developing projects using a variety of feedstocks

- (1) Woody biomass
- (2) Microalgae

- (3) Used cooking oil/vegetable oils and fats
- (4) Domestic second-generation bioethanol



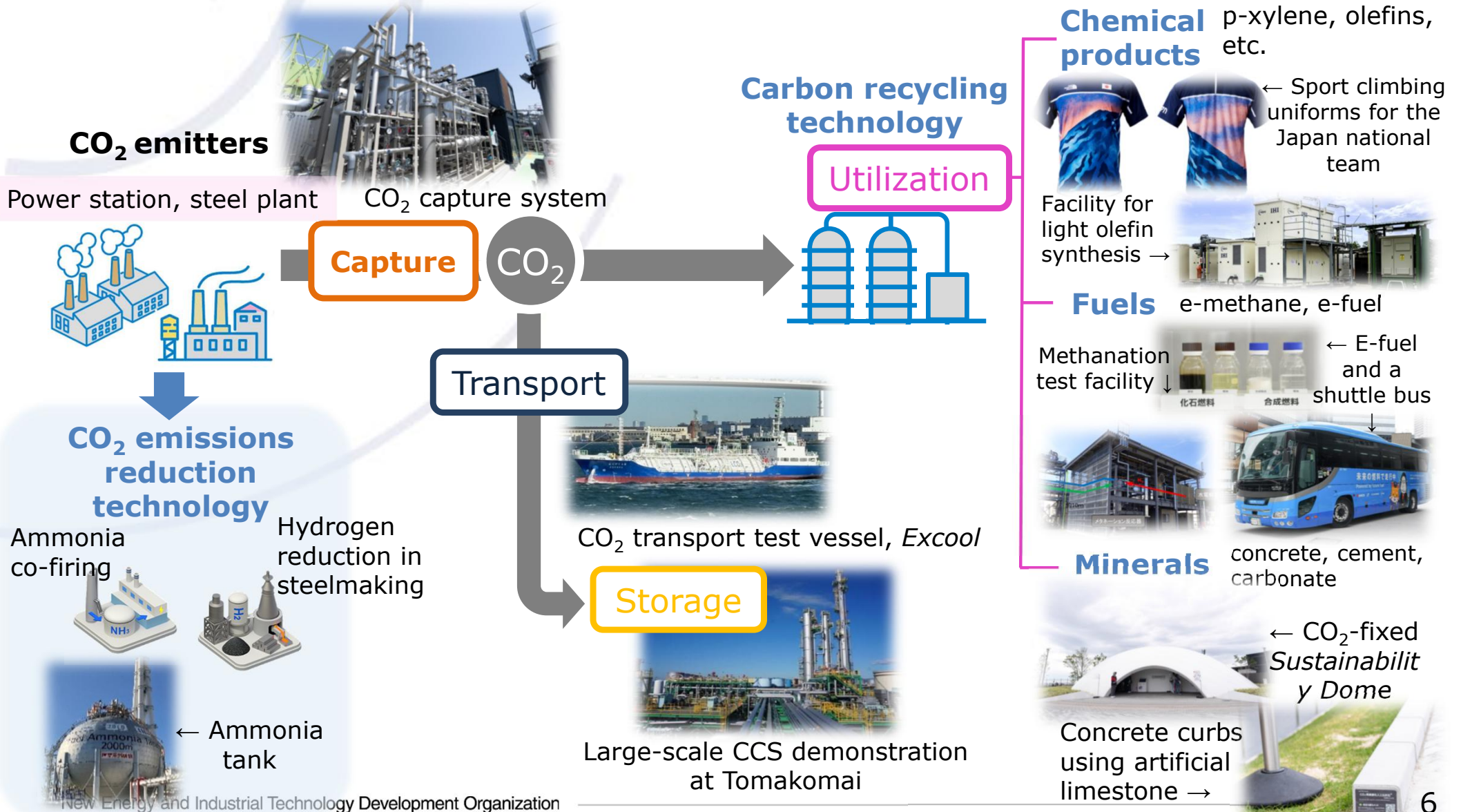
Overall Picture of Carbon Recycling and Decarbonization



Capture

Transport, Storage

Utilization



Japan's Hydrogen Policy Trends

- Japan was the first country to formulate a **national hydrogen strategy**, in 2017, which was then revised in 2023.
- Establishment of **the Green Innovation Fund** of approximately ¥2 trillion (€ 11.7 billion) in 2021.
- Enacted and enforced the **Hydrogen Society Promotion Act** in 2024.

Milestones



Targets

Supply & Demand volume:

Current (Approx. **2Mt**) → 2030 (Approx. **3Mt**) → 2040 (Approx. **12Mt**) → 2050 (Approx. **20Mt**)



Thank you

New Energy and Industrial Technology Development Organization (NEDO),
National research and development agency of Japan

<http://www.nedo.go.jp/english/index.html>

