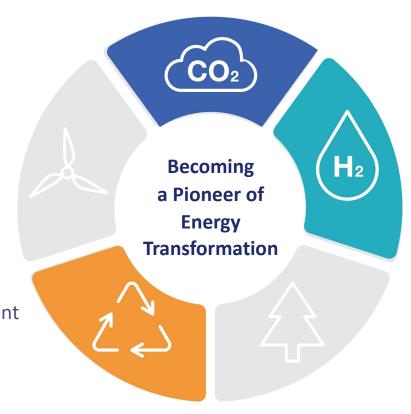


Hydrogen and CCUS Business

Director, Managing Executive Officer, Senior Vice President, Hydrogen & CCUS Development

Toshiaki Takimoto





INPEX Vision / Target around 2030



5 Net Zero Business

Expand each business at an accelerated pace and become recognized as a credible key player

Oil & Gas business

Maintain stable energy supply on the basis of thoroughly making the business cleaner



Target of Hydrogen/CCUS

ccs · ccus

Around 2030

CO2 Injection **2.5 MTPA**

Around 2050

CCUS Business

e-methane

Around 2030

Production Volume 10,000Nm³/h (60,000TPA) Around 2035

Production Volume 60,000Nm³/h (360,000TPA)

Hydrogen

Around 2030

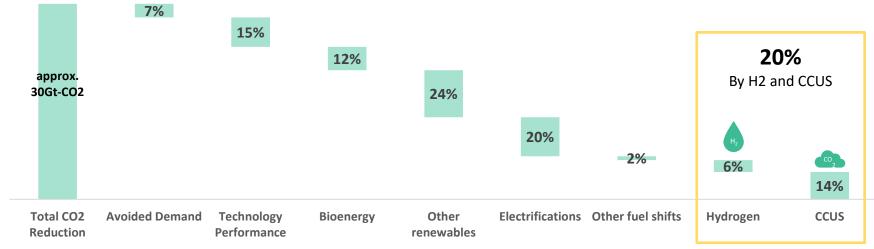
>=3 projects **100,000TPA** Around 2050

Supply 10% demand in Japan

Why Hydrogen & CCUS?



Hydrogen & CCUS contribution to global CO₂ reduction in 2050



Note: INPEX created based on "Energy Technology Perspective 2020" (IEA)

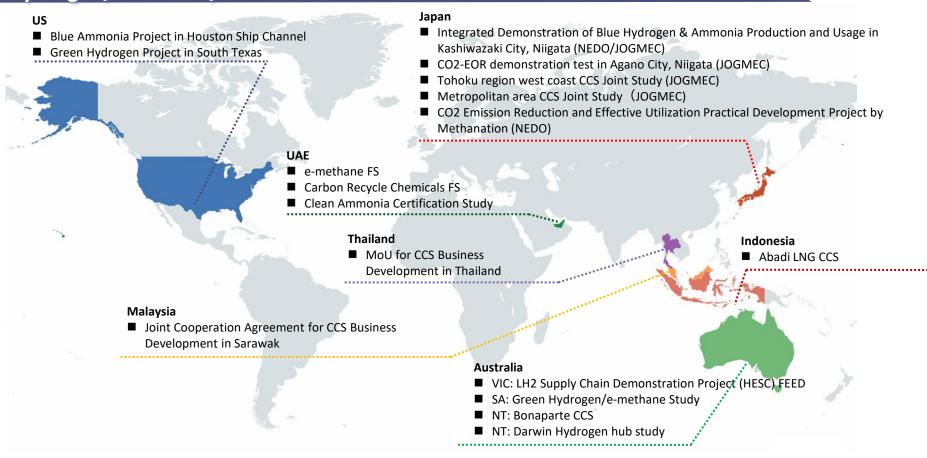
H2 and CCUS will play an important role toward 2050, as the benefits of H2 and CCUS deployment will account for more than 20% of the global CO2 reductions in 2050.

For INPEX, CCUS is not only a way to reduce CO2 from its own upstream operations and to obtain a Social License to Operate, but also to create a new business pillar by supplying clean energy to customers.

INPEX aims to be a first mover to gain first-mover advantage, and to commercialize multiple projects by around 2030.

INPEX Activities Hydrogen/Ammonia/e-methane

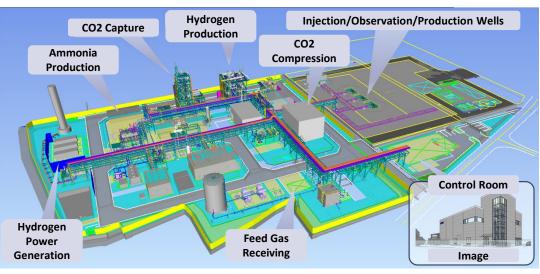




INPEX Activities - 1 Kashiwazaki Integrated Demonstration Project







Overview Schedule

- Demonstration project of blue Hydrogen/Ammonia production with CO2-EGR, with full utilization of existing assets
- NEDO supports Hydrogen/Ammonia production and CO2 capture, JOGMEC supports CO2-EGR
- INPEX is the operator, JGC and Daiichi Jitsugyo (Ammonia production) take construction work

Oct. 2022 : FID

Jul. 2023 : Commencement of construction of

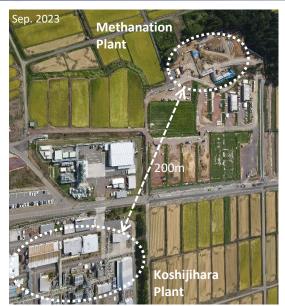
surface plant

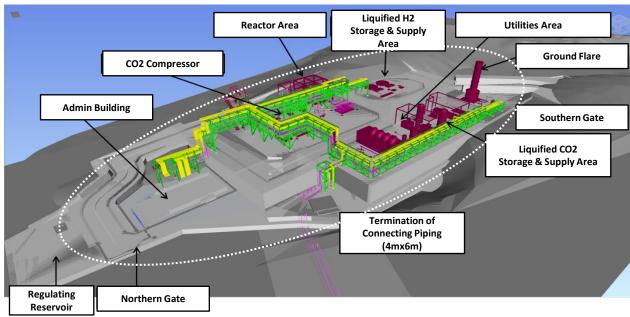
Mar. 2025 : Commissioning (planned)

Aug. 2025 : Completion (planned)

INPEX Activities - 2 Nagaoka Methanation Pilot Project







Overview

Methanation test facilities, producing 400 Nm3/h, equivalent to the amount of methane consumed by 10,000 households in Japan

 NEDO supports the project, INPEX is the operator, Osaka Gas develops reaction process technology, Nagoya University develops simulation technology and Chiyoda takes construction work

Schedule

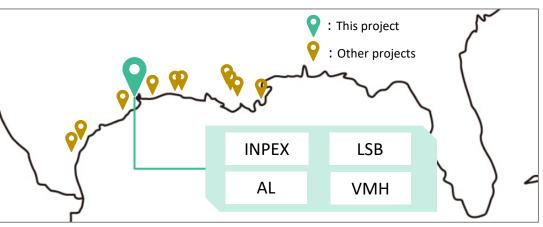
Oct. 2023 : Commencement of construction

2025 : Commissioning & Start-up

INPEX Activities - 3 Blue Ammonia Project in Houston Ship Channel







Overview

- INPEX, Air Liquide Group(AL), LSB Industries, Inc.(LSB), and Vopak Moda Houston LLC(VMH) have agreed to collaborate on the pre-FEED for the development of a large-scale, blue ammonia production and export project on the Houston Ship Channel
- The port is close to the open ocean, and there are existing infrastructures such as natural gas/hydrogen/CO2 pipeline, etc.
- Discussing with potential Asian off-takers incl. Japan

Schedule

 Targeted to produce more than 1.1MTPA of blue ammonia by the end of 2027

Challenges for Commercialization



Company's Effort

- Production cost reduction
 - ✓ Procure cheaper and cleaner H2
- Technology development of efficient H2 production facilities
- Development of efficient CO2 removal equipment
- Establish value chain and secure off takers
- Secure CO2 storage site

Regulation (Sticks)

- Carbon Pricing
 - ✓ Carbon tax, Emission trading scheme, Carbon credit etc.
- Legislation System
 - ✓ CCS legislation system in Japan etc.
- GHG Counting Rule
 - ✓ Important especially for e-methane

Govt. Support (Carrots)

- Early commercialization utilizing IRA
- Establishment of Japanese government support
 - ✓ Price difference support, Long-term decarbonization power source auction, Maintenance of bases
 - ✓ Support scheme within advanced CCS projects
- Public acceptance support
- Carbon credit / Certification scheme