

# Challenge Towards Realizing a Decarbonized Society -Hydrogen and CCUS Businesses-

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Integrated Demonstration of Blue Hydrogen & Ammonia Production and Usage  
in Kashiwazaki City, Niigata  
as of August 2024



1

## Support Measures for the Commercialization of Hydrogen and Ammonia Projects

Contract-for-Difference subsidy scheme is key for commercialization



2

## Support Measures for the Commercialization of CCS Projects

CCS Business Act has been established. Supporting scheme needs to be in place.



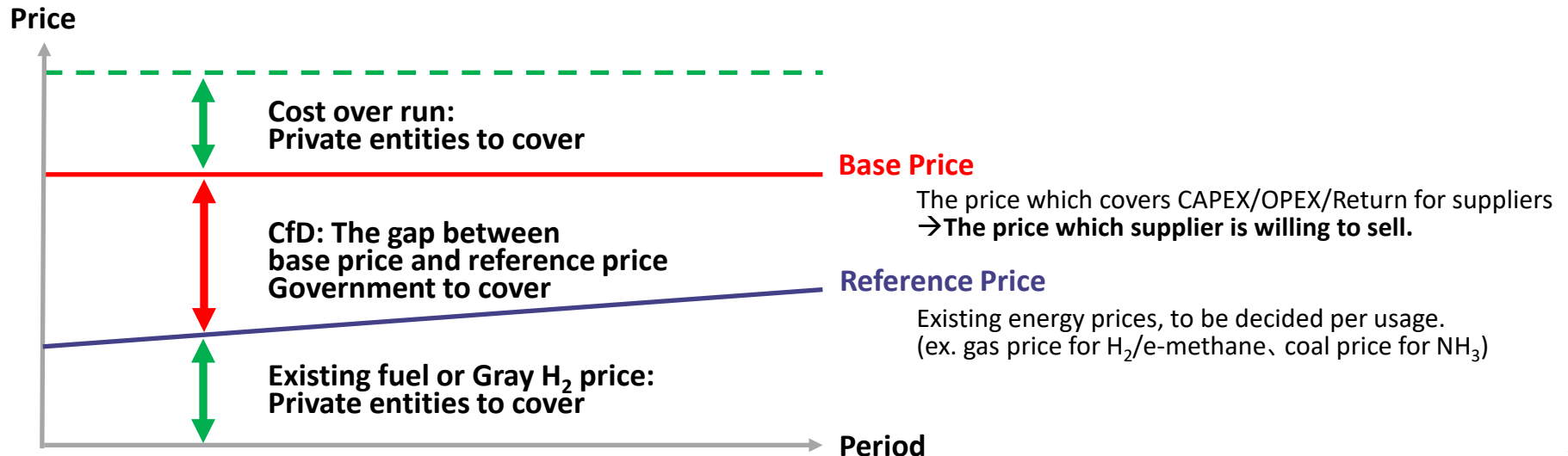
3

## Progress of Main Projects

## CfD subsidy scheme is key for commercialization of hydrogen and ammonia projects

- Japanese government decided to introduce Contract-for-Difference (CfD) and other subsidy scheme.
- The Hydrogen Society Promotion Act passed the Parliament of Japan in May 2024.
- Competition to obtain subsidy is fierce, but the environment is steadily improving for the commercialization of hydrogen and ammonia projects in around 2030.

### Outline of CfD Subsidy Scheme: CfD subsidy for 15 years from commencement of operation

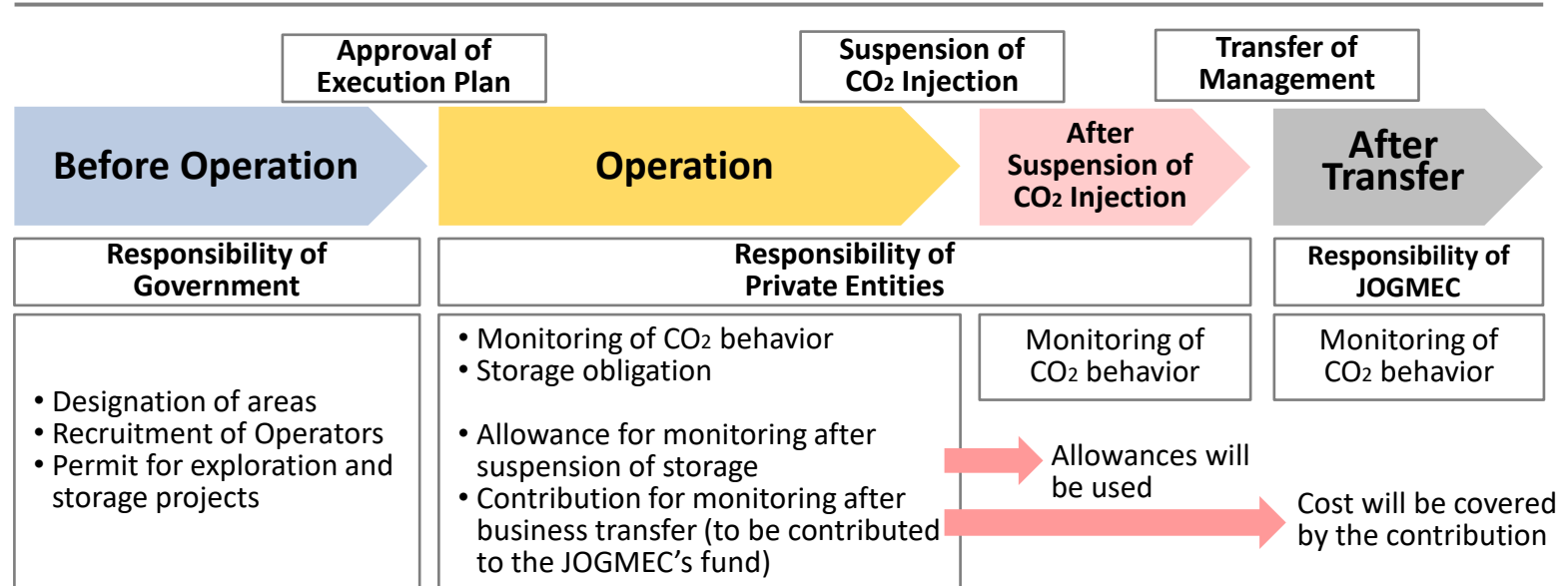


## 2. Support Measures for the Commercialization of CCS Projects

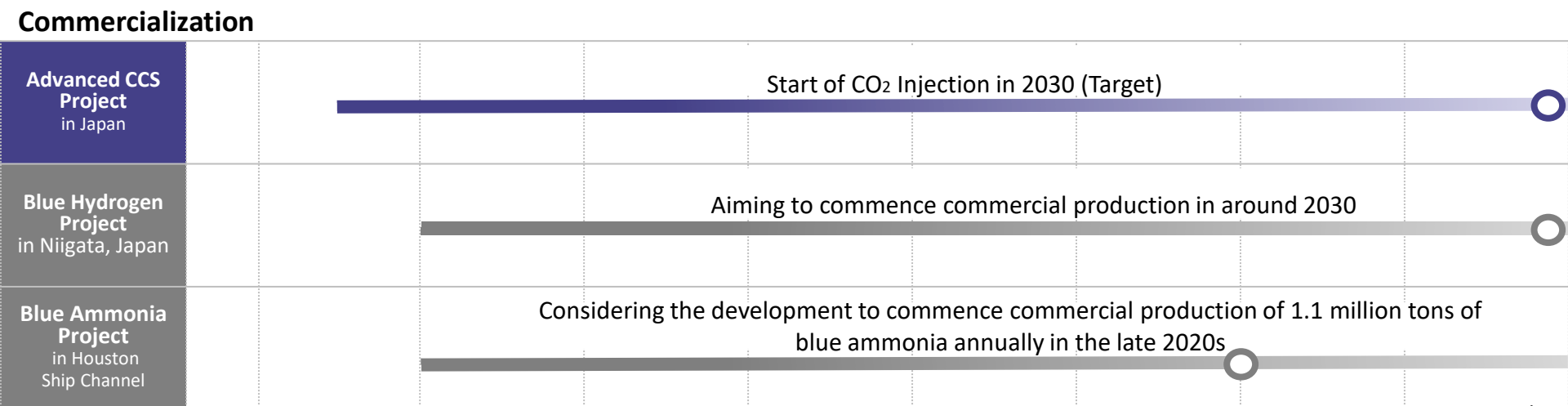
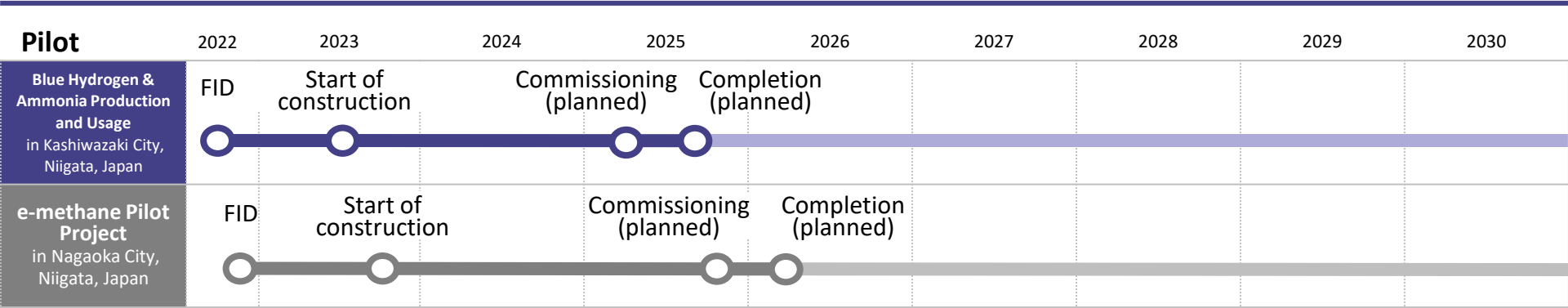
### CCS Business Act has been established. Supporting scheme needs to be in place.

- CCS Business Act passed the Parliament of Japan in May 2024.
- The ratification of the London Protocol amendment for CO<sub>2</sub> transportation to overseas has been approved by the Parliament of Japan.
- Dialogues among governments also progressed.
- Though support scheme is still under consideration, the environment is steadily improving for the commercialization of CCS projects in Japan in around 2030.

### Outline of CCS Business Act



# 3. Progress of Main Projects



JOGMEC has picked 9 candidate projects as “Advanced CCS Project” for this year on July 28, 2024. INPEX is involved in “Metropolitan Area CCS” and “Tohoku Region West Coast CCS”. “Metropolitan Area CCS” is led by INPEX

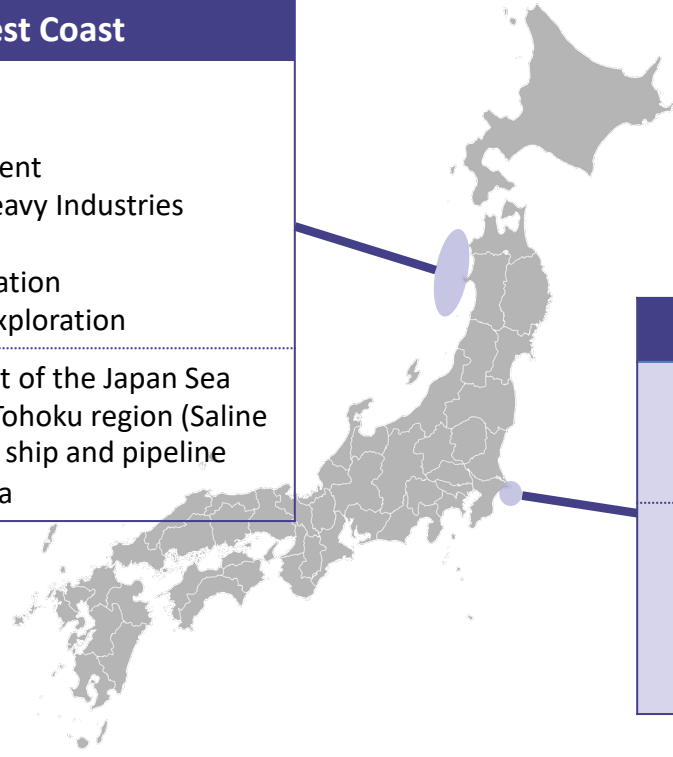
## Tohoku Region West Coast

### Partners

ITOCHU  
Nippon Steel  
Taiheiyo Cement  
Mitsubishi Heavy Industries  
**INPEX**  
Taisei Corporation  
ITOCHU Oil Exploration

### Specification

- Off the coast of the Japan Sea side of the Tohoku region (Saline aquifer), via ship and pipeline
- 1.5-1.9 Mtpa



## Metropolitan Area

### Partners

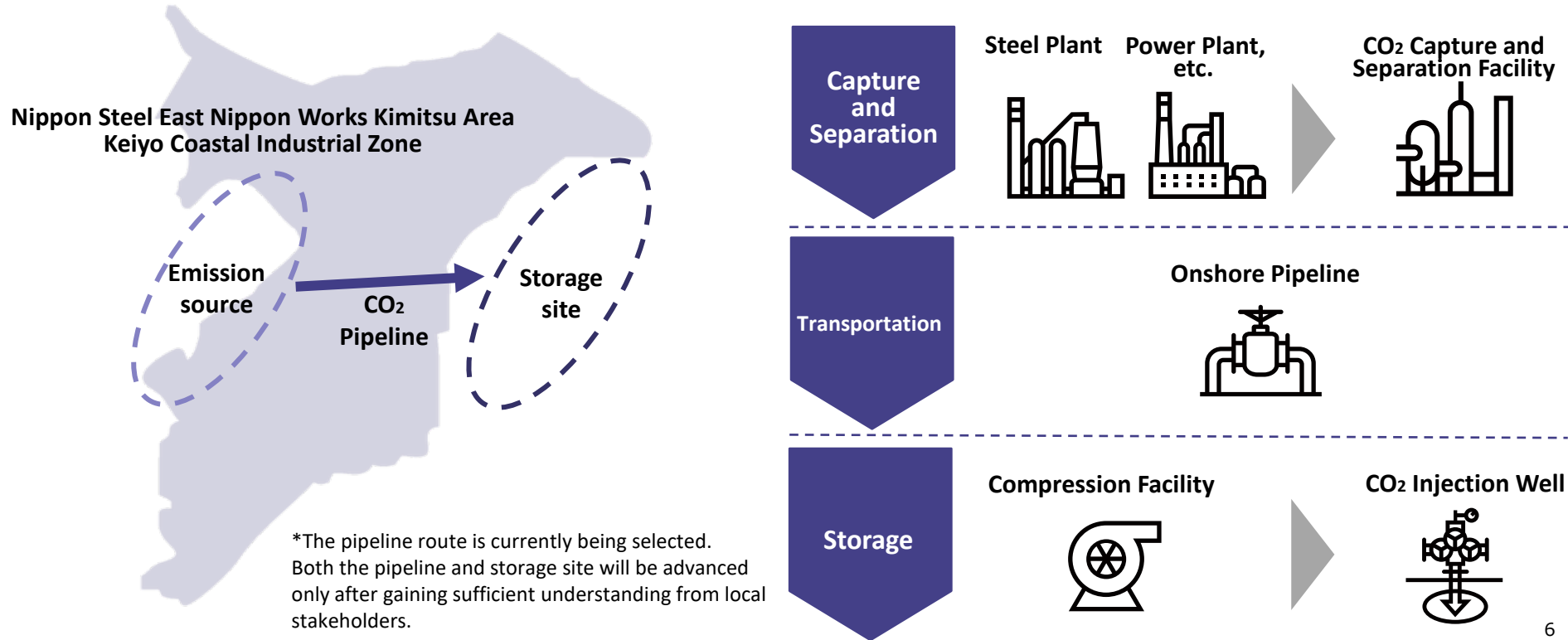
**INPEX**  
Nippon Steel  
Kanto Natural Gas Development

### Specification

- Off the coast of Chiba Prefecture, in the outer Chiba Boso region (Saline aquifer), via pipeline
- 1.4 Mtpa

## Capturing CO<sub>2</sub> emissions from multiple industries

A CCS project that transports the captured CO<sub>2</sub> via pipeline\* and stores it in the offshore area of Chiba Prefecture



# 3-II. Integrated Demonstration of Blue Hydrogen & Ammonia Production and Usage in Kashiwazaki City, Niigata

As of September 2023



Current Status as of August 2024

