

Towards the Decarbonization of Fossil Fuels JAPEX's Efforts for Realizing Tomakomai CCS

September 3, 2026
Japan Petroleum Exploration Co., Ltd.
(JAPEX)

Profile



Dai Wada

Executive Officer

/President of Japan Carbon Neutral Division
Japan Petroleum Exploration Co., Ltd. (JAPEX)

Joined JAPEX in 1995. Following roles in the Sapporo Mining Office and Corporate Planning Headquarters, appointed current role.

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4. The Way Forward

Corporate Profile

Head Office	SAPIA Tower, 1-7-12, Marunouchi, Chiyoda-ku, Tokyo, Japan
Establishment	April 1, 1970
Capital	14,288,694,000 JPY
Representative	YAMASHITA Michiro Representative Director and President, Chief Executive Officer
Number of Employees	1,670 (Consolidated)/ 993 (Non-consolidated) *as of March 31, 2026
Main Business	● Exploration, Development, and Production of Oil and Natural Gas (E&P) ● Infrastructure & Utilities (Gas Supply and Power Generation) ● Carbon Neutral (CCS / CCUS)

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1. About JAPEX

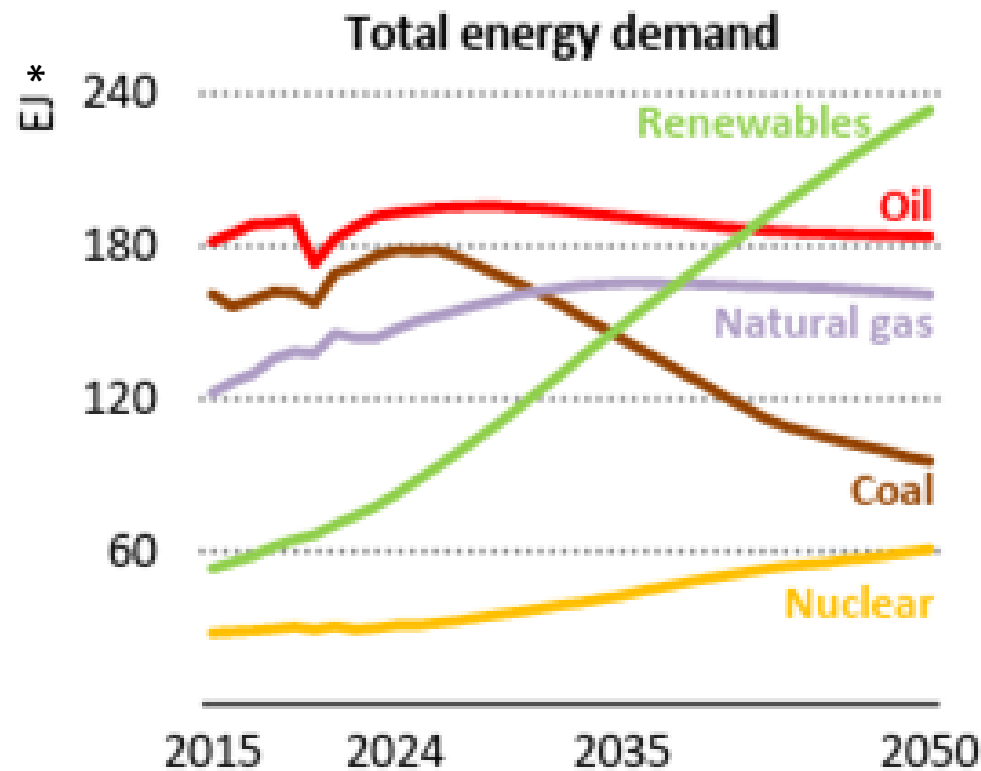
2. Decarbonization of Fossil Fuels

3. Advanced CCS project "Tomakomai CCS"

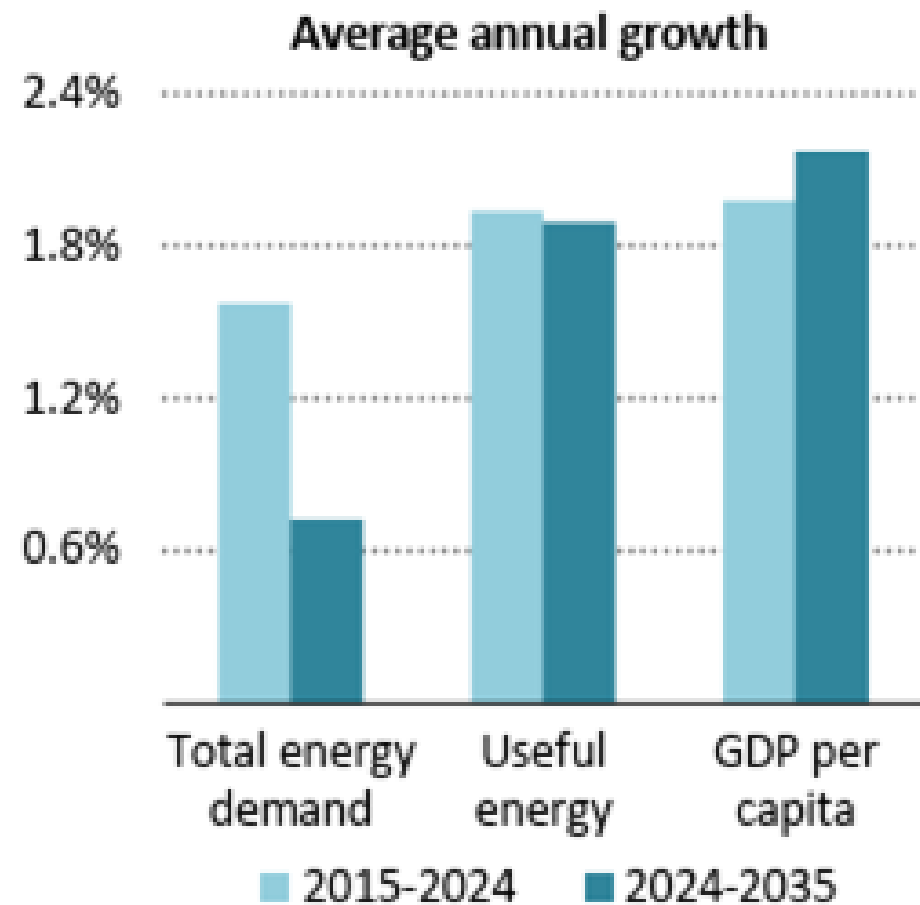
4. The Way Forward

Fossil Fuels Remain Core to Global Energy

WEO 2025 STEPS: Energy Demand Expected to Hold Steady



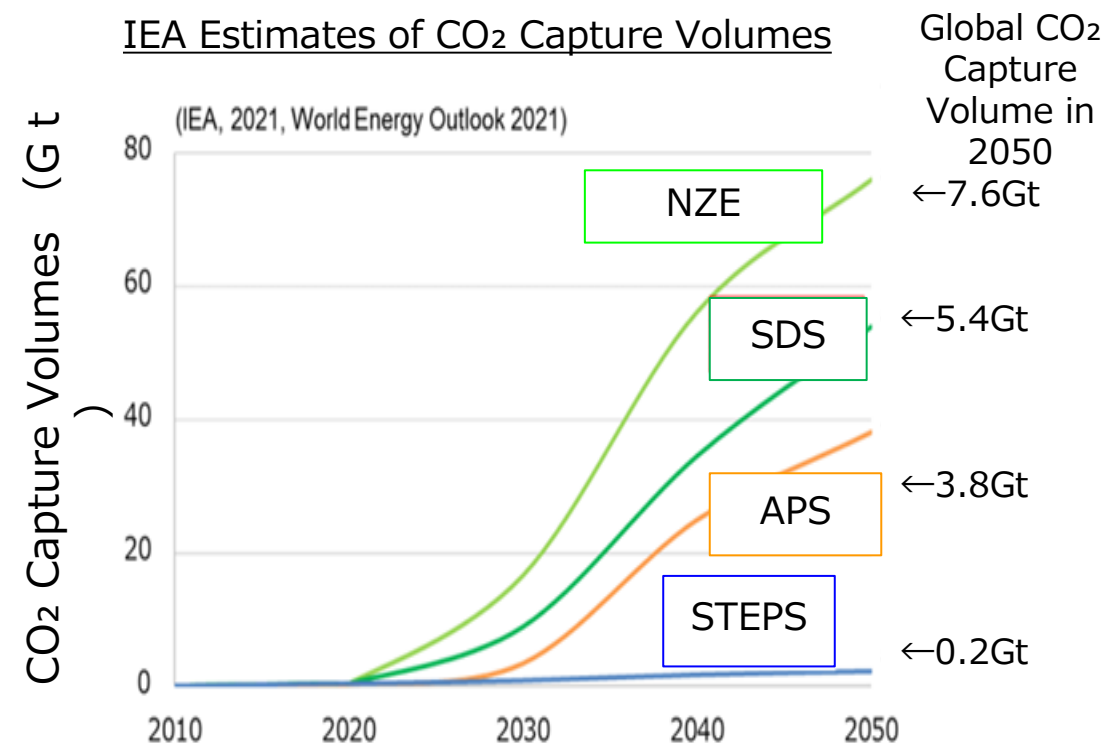
*1EJ = 10¹⁸J



IEA. CC BY 4.0.

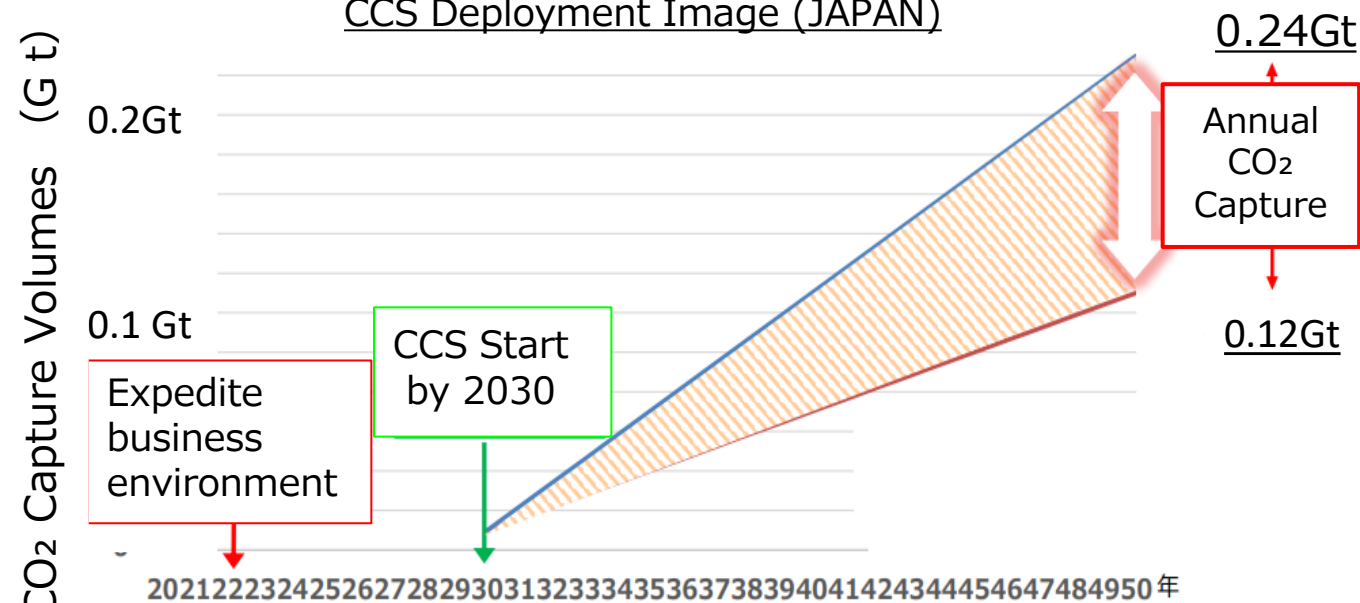
CCS : A Key Tool for Decarbonization

IEA Estimates of CO₂ Capture Volumes



- **NZE:** A scenario to put global CO₂ emissions on a trajectory to reach net zero by 2050.
- **SDS:** A scenario to achieve net zero by 2050 for advanced economies, by 2060 for China, and by 2070 for other countries.
- **APS:** A scenario based on each country's climate pledges, such as NDCs and long-term net-zero targets.
- **STEPS:** A scenario based on each country's measures, precisely evaluating whether goals can be achieved by sector.

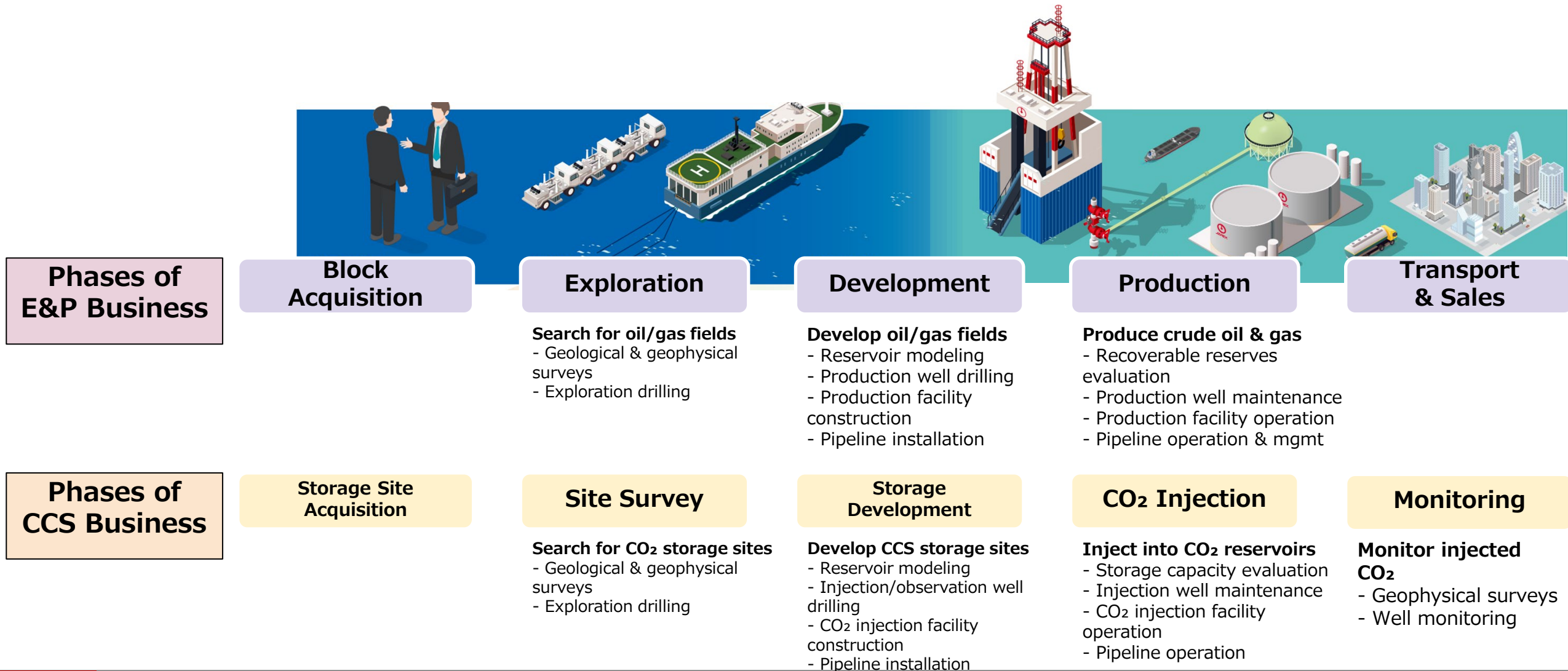
CCS Deployment Image (JAPAN)



Source: Ministry of Economy, Trade and Industry (METI),
Explanatory Materials for the Final Summary of the CCS Long-Term
Roadmap Study Group

E&P expertise for the CCS business

E&P business and the CCS business have synergies across their respective phases.



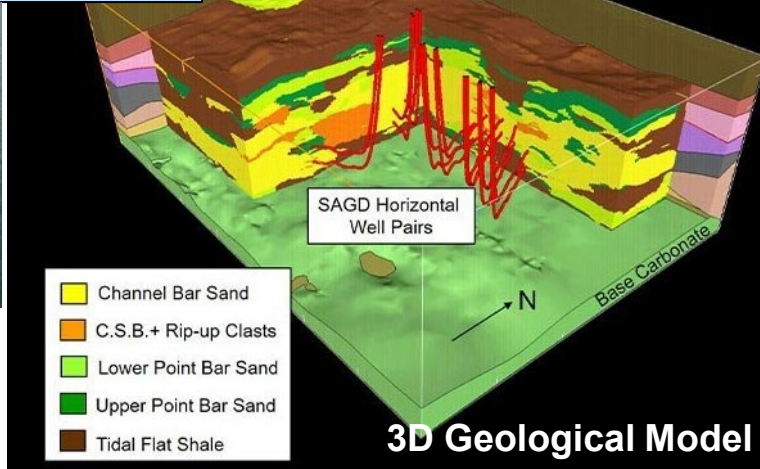
Strengths: In-housing all technical elements for CCS

Subsurface Survey & Reservoir Evaluation

JGI 株式会社 地球科学総合研究所



Work scene by JGI
(Japan Geophysical
Exploration Co., Ltd.)



Well Drilling

エスケイエンジニアリング株式会社



Drilling Rig



Operations on Drilling Rig

Transport (Pipelines & Vessels)

JPL 株式会社ジャベックスパイプライン



LNG Domestic Vessel "Akebono
Maru"



Natural Gas Pipeline

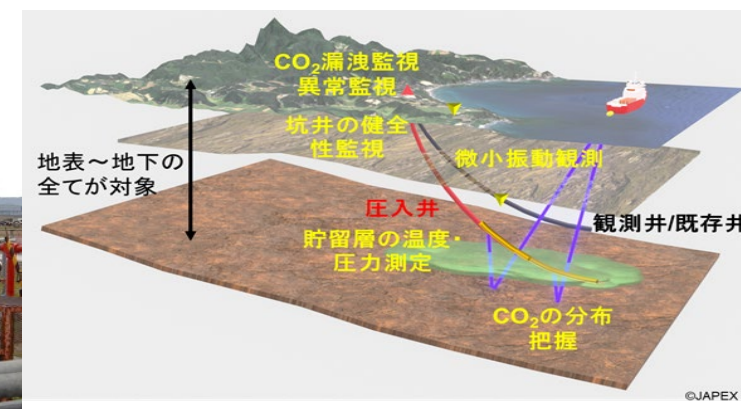
Monitoring

GSC 株式会社物理計測コンサルタント
Geophysical Surveying Co., Ltd.

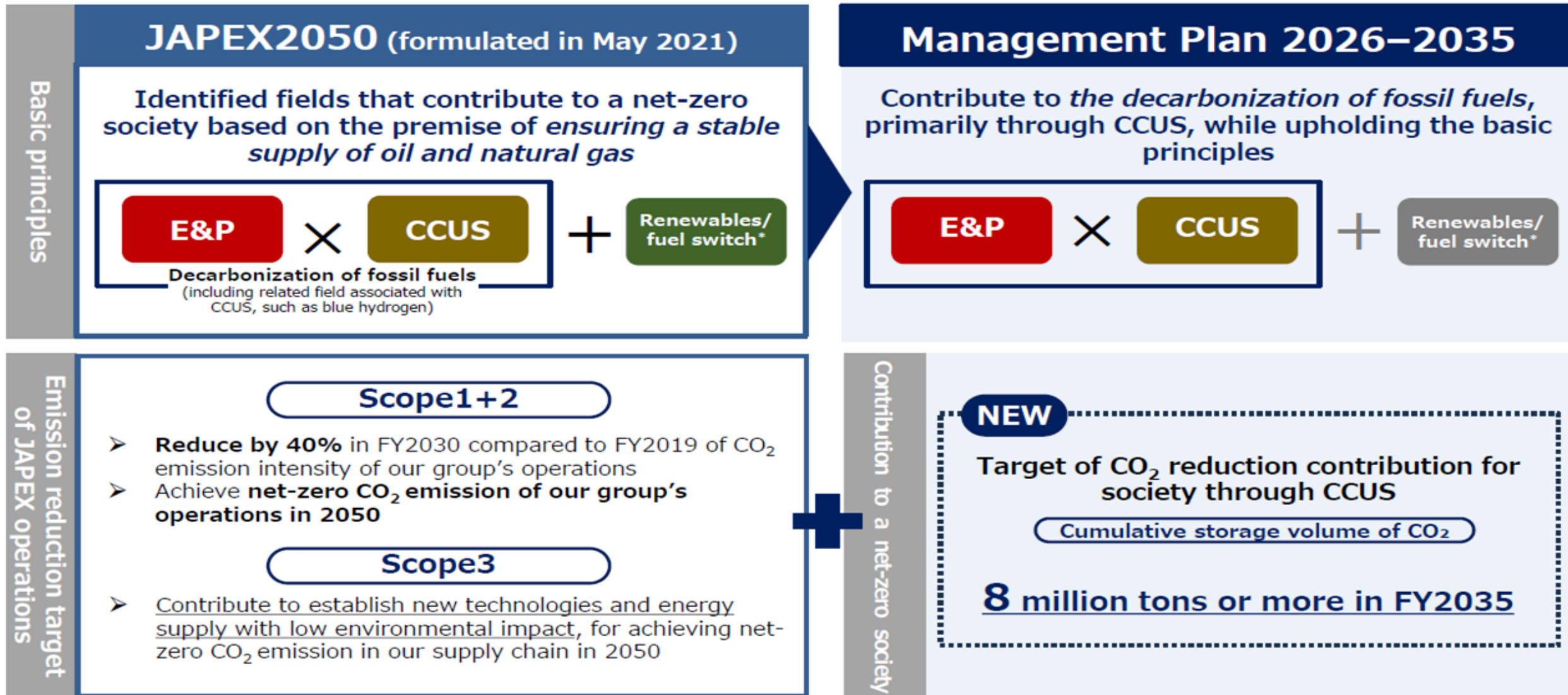
JGI 株式会社 地球科学総合研究所



Fiber-optic Data
Acquisition & Installation



A New CCUS target Under JAPEX2050

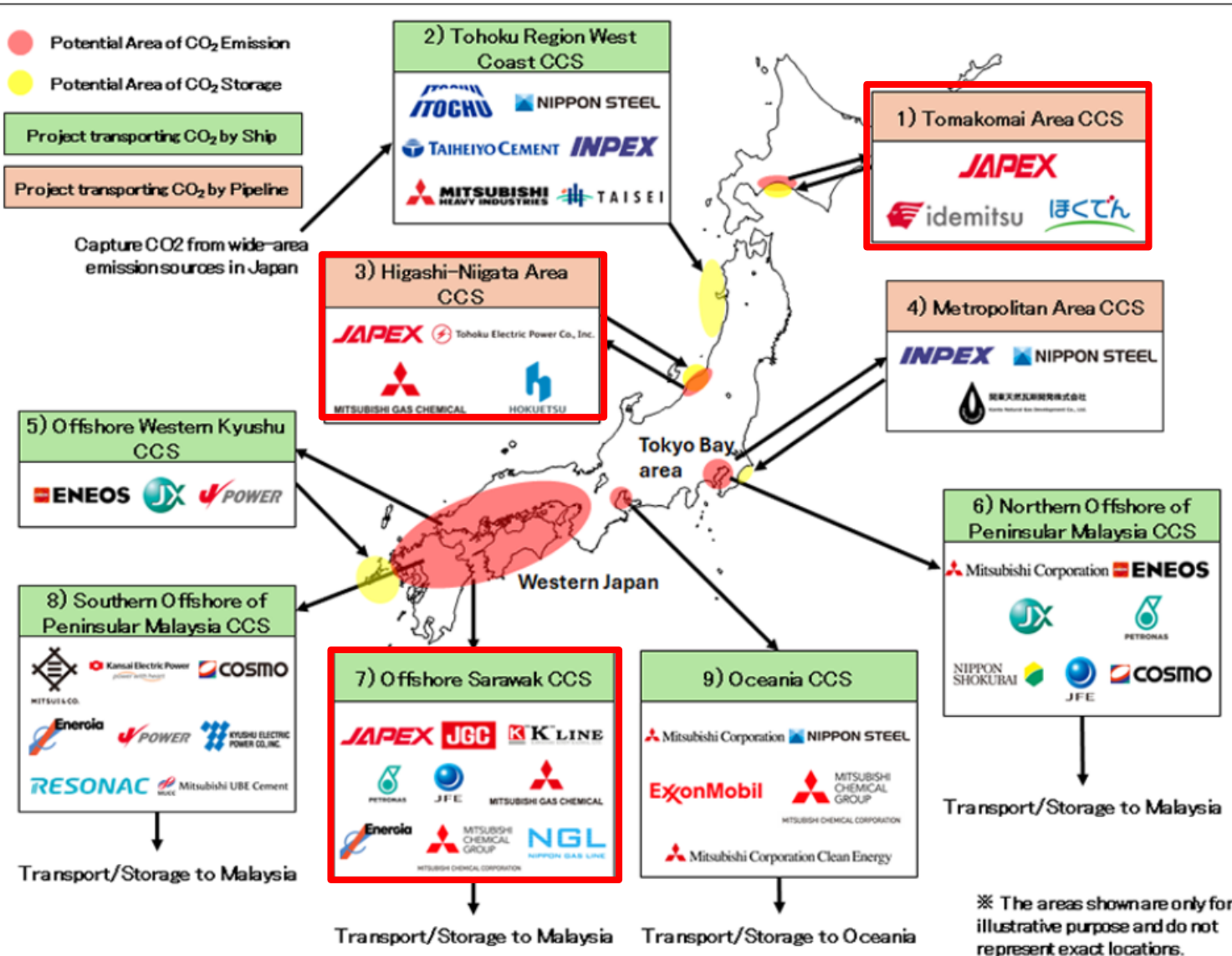


* Transition from petroleum fuels, which have a high environmental impact, to natural gas

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JOGMEC Advanced CCS Projects



JOGMEC Advanced CCS Projects

Target : 20 Mt*/year CO₂ storage
(5 Japan and 4 Asia-Pacific)

CCS Projects' Schedule

By FY2026:

Final investment decision by
project operators

By 2030:

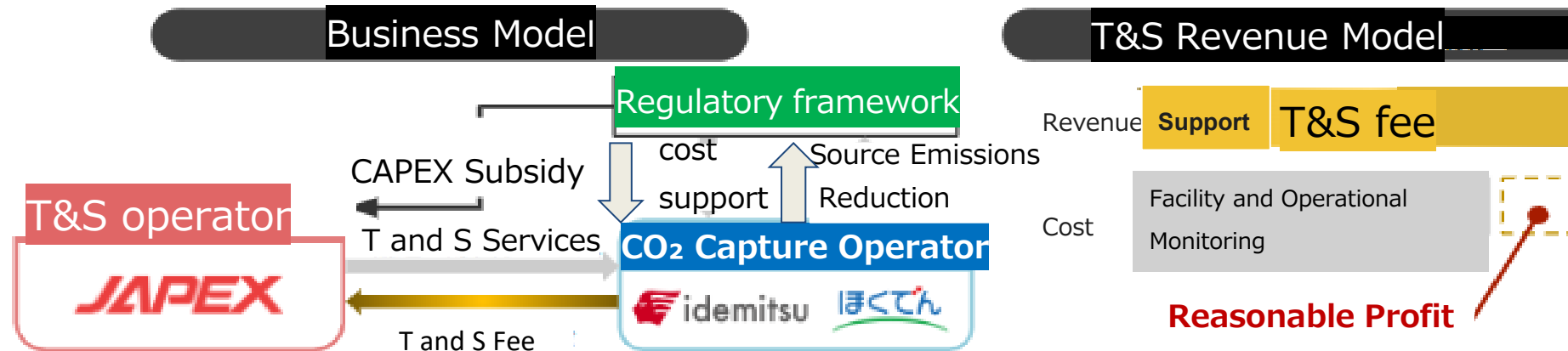
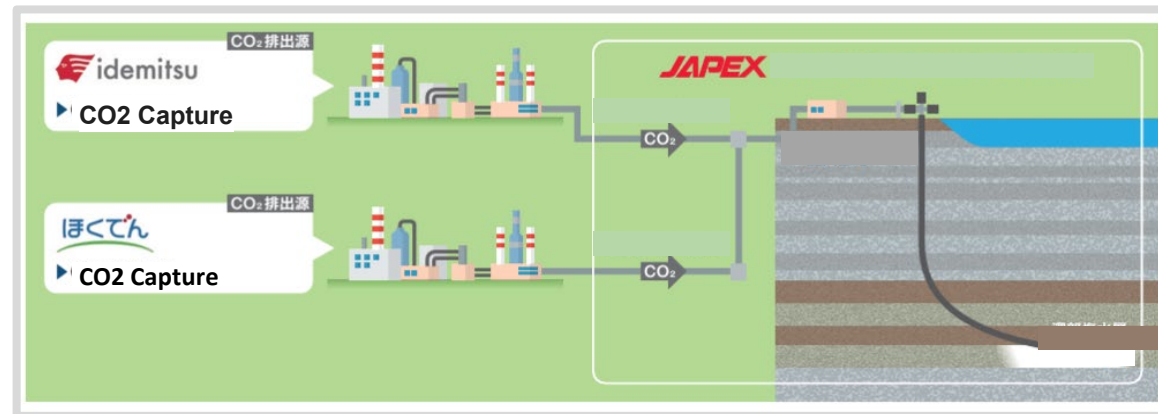
Advance initiatives toward
achieving a storage capacity
of 6–12 Mt*/year.

*million tons

Source : Japan Organization for Metals and Energy Security(JOGMEC),Advanced Efforts for Commercialization of CCS-
JOGMEC selects Nine projects as Japanese Advanced CCS Projects -

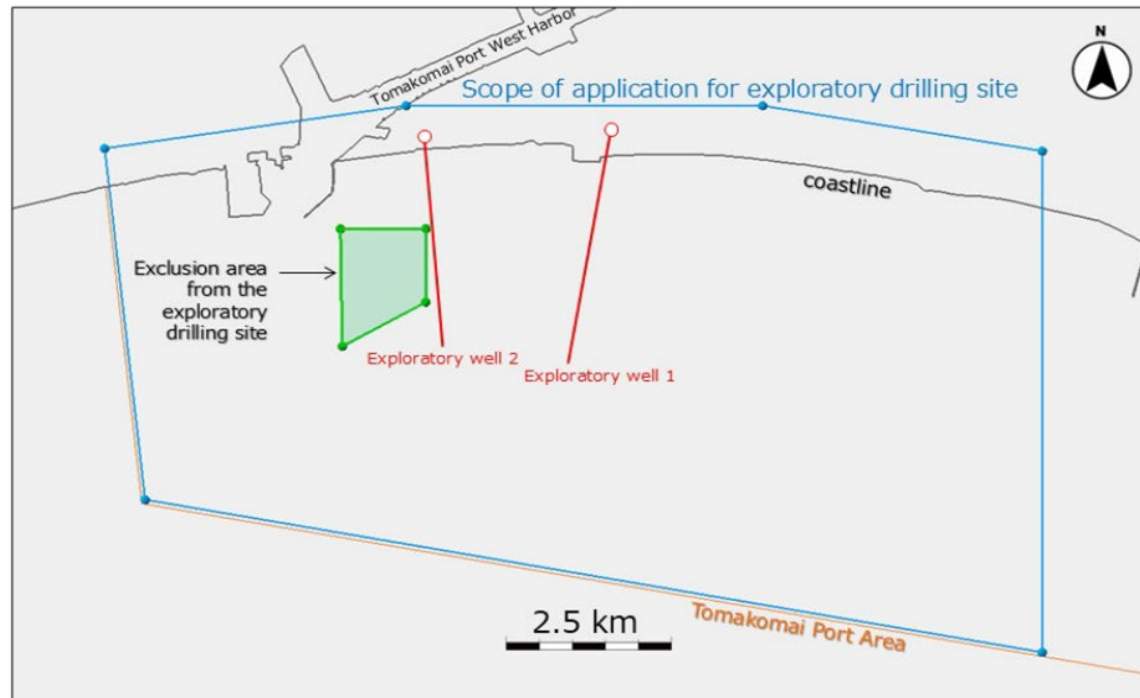
CCS Project in the Tomakomai Area

JAPEX, Idemitsu Kosan, and Hokkaido Electric Power are studying the full CCS value chain near Tomakomai, including CO₂ capture, pipeline transport, injection/storage, and monitoring. The project aims to **start injection in FY2030**, with storage capacity of **1.5–2.0 Mt/year**.



Permission for Exploratory Drilling in Specified Areas

- Feb 21, 2025: "Off the coast of Tomakomai, Hokkaido" designated as first CCS specified area.
- Sep 17, 2025: Exploratory drilling permit obtained.
- Nov 2025 – July 2026: 1st well drilling operations completed.
- Aug 2026: 2nd well drilling started (Ongoing)
→Results will inform final investment decision.



Tomakomai J-1 exploratory drilling site



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New Company for the Tomakomai CCS Project

- A new company will lead the Tomakomai CCS project.
- JAPEX plans to seek government approval to transfer its offshore Tomakomai exploration permit to the company, which will then apply for a CO₂ storage business permit.

Company Name Tomakomai CCS Co., Ltd. (TCCS)

Established Date July 1, 2026

Location 134-648, Numanohata, Tomakomai City,
Hokkaido Japan Petroleum Exploration Co.,
Ltd. Hokkaido Office

Representative Director & President Yoshinori Yamanouchi

Business Scope Transportation and storage business of
carbon dioxide

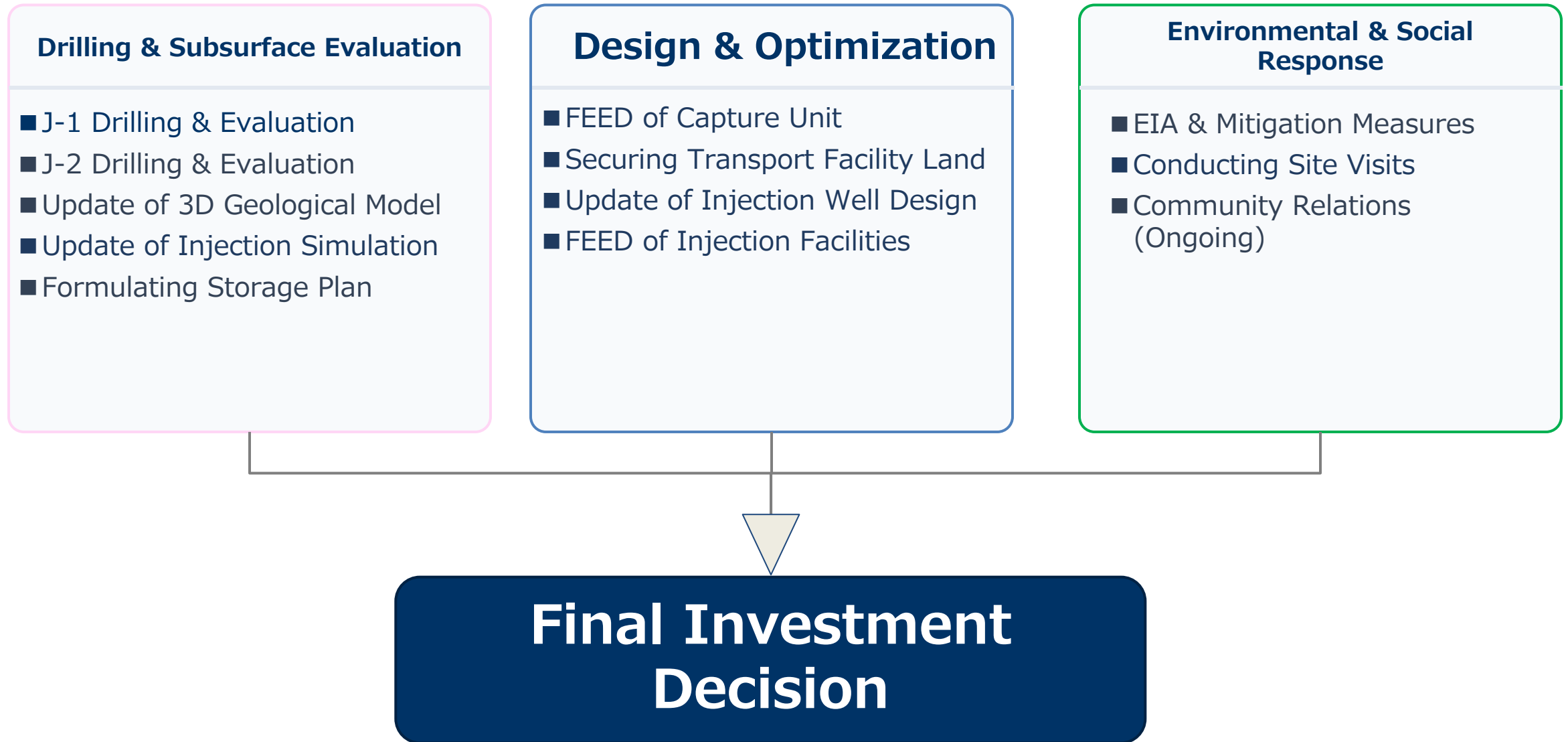
Capital 5 million yen

Investing Company



Japan Petroleum
Exploration Co., Ltd.
(JAPEX)

Final Investment Decision around 2027



Tomakomai CCS Project Roadmap

Final Investment Decision 【Around 2027】

Based on facility design and ongoing test drilling*, a final investment decision(FID) will be made.

*Two wells are being drilled to confirm safe & secure CO₂ storage in deep reservoirs; the first is complete, and the second started in August.

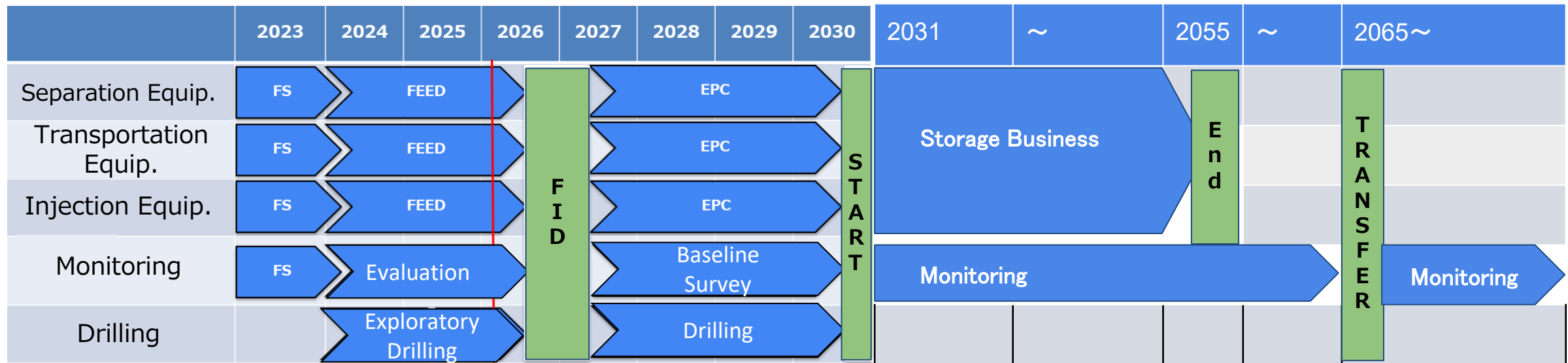
Construction & Drilling 【FY2027~2030】

Following FID, facility construction and injection well drilling will take place over four years.

Baseline data on the natural environment and geology will be collected for post-launch monitoring.

Storage Business 【From FY2030】

After construction, CO₂ separation, capture, and storage will begin. The project is expected to run for about 25 years, with monitoring continuing after completion. Management duties are planned to transfer to JOGMEC 10+ years after injection ends.



Sustainable future with CCS



We appreciate your attention

JAFEX