Note: The following is an English translation of the Japanese-language original.

September 13th, 2024

[Press Release]

Japan Petroleum Exploration Co., Ltd. JGC Holdings Corporation Kawasaki Kisen Kaisha, Ltd. JFE Steel Corporation Mitsubishi Gas Chemical Co., Inc. Mitsubishi Chemical Corporation The Chugoku Electric Power Co., Inc. Nippon Gas Line Co., Ltd. PETRONAS CCS Ventures Sdn. Bhd.

<u>Commission a CCS engineering design work in Sarawak, Malaysia</u> <u>as the "Japanese Advanced CCS Projects" in FY2024</u>

Japan Petroleum Exploration Co., Ltd. (JAPEX), JGC Holdings Corporation (JGC HD), Kawasaki Kisen Kaisha, Ltd. ("K" LINE), JFE Steel Corporation (JFE Steel), Mitsubishi Gas Chemical Co., Inc. (MGC), Mitsubishi Chemical Corporation (Mitsubishi Chemical), The Chugoku Electric Power Co., Inc. (EnerGia) and Nippon Gas Line Co., Ltd. (NGL) (hereinafter "Eight Japanese Companies") signed a contract with Japan Organization for Metals and Energy Security (JOGMEC) for the commissioning of design work, etc. (hereafter, the "Work") related to the Carbon Capture and Storage (CCS) project to inject and store CO₂ emitted from multiple industries in Japan including the Setouchi area in offshore Sarawak, Malaysia, which is one of the public solicitations regarding the Request for Proposal on the "Japanese Advanced CCS Projects" in the fiscal year 2024 (hereinafter the "Public Solicitation").

Eight Japanese Companies that signed the contract will proceed with the Work to examine the equipment and costs required for the separation, collection and liquefaction of CO_2 emitted from steelworks, power plant, chemical plant, etc., in Japan. PETRONAS CCS Ventures Sdn. Bhd. (PCCSV) will jointly work with the Eight Japanese Companies (hereinafter "Nine Participating Companies") to examine equipment and costs required for the marine transport to Sarawak (including domestic marine transportation in the Setouchi area) and the injection and storage of the CO_2 .

Please refer to the appendix for an outline of the Work, roles of the Nine Participating Companies and profiles of each company.

JAPEX, JGC HD, "K" LINE, and PCCSV have signed the Key Principles Agreement (KPA) regarding the study of commercializing the CCS project on September 22, 2023 ^(*1) and have signed the Storage Site Agreement with PETROLEUM Sarawak BERHAD the Sarawak state-run energy company and the state's

 $\rm CO_2$ storage rights manager on February 26, 2024. To implement the injection and storage of $\rm CO_2$ from domestic as well as foreign countries such as Japan, JAPEX, JGC HD, "K" LINE, and PCCSV are investigating the profitability of the CCS project using depleted gas fields off the coast of Sarawak, offshore Malaysia including M3 depleted field as $\rm CO_2$ storage sites by formulating a development plan for the $\rm CO_2$ storage sites including CO₂ transportation, onshore terminals and pipelines, and evaluating their technical and commercial feasibility ^(*2).

In addition, on February 26, 2024, JAPEX, JGC HD, "K" LINE, JFE Steel, EnerGia, and NGL (hereinafter "the Six Companies") have signed a Memorandum of Understanding regarding joint evaluation aiming to establish CCS value chain originated from Japan for the commercialization of the CCS project in Malaysia. The Six Companies are conducting the joint evaluation of required facilities and costs^(*3) to establish the CCS value chain, from CO₂ separation and capture at JFE Steel's steelworks and EnerGia Group's power plant to marine transportation (including domestic marine transportation in the Setouchi area) of liquefied CO₂ to the receiving point(s) in Malaysia. As the joint evaluation progressed, the Six Companies recognized that their direction of business consideration was in line with those of MGC and Mitsubishi Chemical, which were considering decarbonizing their factories. As a result, the Eight Japanese Companies concluded the contract with JOGMEC.

By promoting the Work with the aim to early commercialize the CCS project, the Eight Japanese Companies will contribute towards carbon neutrality in 2050, including the realization of a de-carbonized society in Asia targeted by the "Asia Energy Transition Initiative (AETI)" ^(*4).

Notes)

- *1: Please refer to a joint press <u>JAPEX</u>, JGC HD, and "K" LINE Sign a Key Principles Agreement with PETRONAS for the <u>maturation and development of the CCS Project in Malaysia</u>
- *2: Please refer to a joint press <u>JAPEX</u>, JGC, and "K" LINE Sign a Storage Site Agreement with PETRONAS and PETROS for the CCS Project in Malavsia
- *3: Please refer to a joint press <u>The Chugoku Electric Power and Nippon Gas Line Participate in the Joint Evaluation to</u> <u>Establish CCS Value Chain Originated from Japan for the CCS Project in Malaysia</u>
- *4: The Japanese Government's initiative announced in May 2021, which aims to achieve sustainable economic growth and carbon neutrality simultaneously in Asia.

[Appendix] Outline of the Work

1) Outline

Storage area	Off the coast of Sarawak, offshore Malaysia
Storage amount	Approximately 1.9~2.9 million tons per year (*)
Emission source	Steelworks, Power plant, and Chemical plant in the Setouchi area
Transportation	Pipelines, domestic coastal boat transportation, oceangoing transportation
Feature of the	Promote a highly scalable, wide-area project that connects CO ₂ storage regions with
project	substantial injection potential via marine transportation, targeting a wide range of
	industries in the Setouchi area.

(*) Assumption storage capacity in 2030 is 5 million tons per year.

2) Each role of the Nine Participating Companies in the Work

JAPEX	Conduct joint technical and commercial studies on CO_2 transport and storage by
JGC	utilizing the experience and expertise of each company in areas such as oil and
"K" LINE	natural gas exploration and development, CO_2 geological storage, plant design and
PCCSV(*)	construction, and marine transport of liquefied CO_2
JFE Steel	CO_2 separate, capture facilities in the JFE Steel's own operation, and liquefy and
	shipping facilities in the JFE Steel's premises
MGC	CO_2 separate and capture facilities in the MGC's own operation
Mitsubishi Chemical	CO_2 separate and capture facilities in the Mitsubishi Chemical's own operation
EnerGia	CO_2 separate and capture facilities in the EnerGia's own operation, and liquefy
	and shipping facilities in the adjacent premises
NGL	Infrastructure for domestic coastal boat transport of liquefied CO_2 .

(*) PCCSV is participating as a joint proponent, not as a contracting party.

[Appendix] Outline of Nine Participating Companies

Japan Petroleum Exploration Co., Ltd. (JAPEX)		
Head Office :	SAPIA Tower 1-7-12, Marunouchi, Chiyoda-ku, Tokyo	
Representative :	Representative Director and President, Chief Executive Officer, YAMASHITA Michiro	
JGC Holdings Corporation (JGC HD)		
Head Office :	2-3-1, Minato Mirai, Nishi-ku, Yokohama-shi, Kanagawa	
Representative :	Representative Director, Chairman and Chief Executive Officer (CEO), Masayuki Sato	
Kawasaki Kisen Kaisha, Ltd. ("K" LINE)		
Head Office :	2-1-1, Uchisaiwaicho, Chiyoda-ku, Tokyo	
Representative :	Representative Director, President & CEO, Yukikazu Myochin	
PETRONAS CCS Ventures Sdn. Bhd. (PCCSV) (*)		
Head Office :	Tower 1, PETRONAS Twin Towers, Kuala Lumpur City Centre, 50088 Kuala Lumpur,	
	Malaysia	
Representative :	Chief Executive Officer, Emry Hisham Yusoff	
(*) PCCSV is part	ticipating as a joint proponent, not as a contracting party.	
JFE Steel Corporation (JFE Steel)		
Head Office :	2-2-3, Uchisaiwaicho, Chiyoda-ku, Tokyo	
Representative :	President and CEO, Masayuki Hirose	
Mitsubishi Gas Chemical Co., Inc. (MGC)		
Head Office :	Mitsubishi Building 2-5-2, Marunouchi, Chiyoda-ku, Tokyo	
Representative :	Representative Director, President, Masashi Fujii	
Mitsubishi Chemical Corporation (Mitsubishi Chemical)		
Head Office :	1-1-1 Marunouchi, Chiyoda-ku, Tokyo	
Representative :	Representative Director, Yasuo Shimodaira	
	Representative Director, Nobuo Fukuda	
The Chugoku Electric Power Co., Inc. (EnerGia)		
Head Office :	4-33 Komachi,Naka-ku,Hiroshima-shi,Hiroshima	
Representative :	Representative Director, President & Chief Executive Officer, Nakagawa Kengo	
Nippon Gas Line Co., Ltd. (NGL)		
Head Office :	4-12-7 Sanbancho, Matsuyama City, Ehime	
Representative :	President Yasuhiro Muramatsu	

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