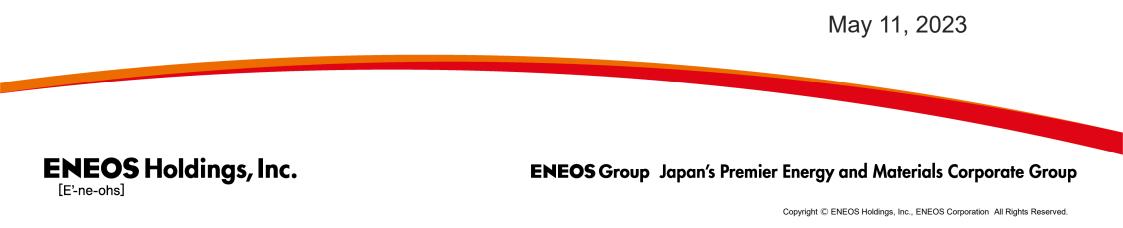
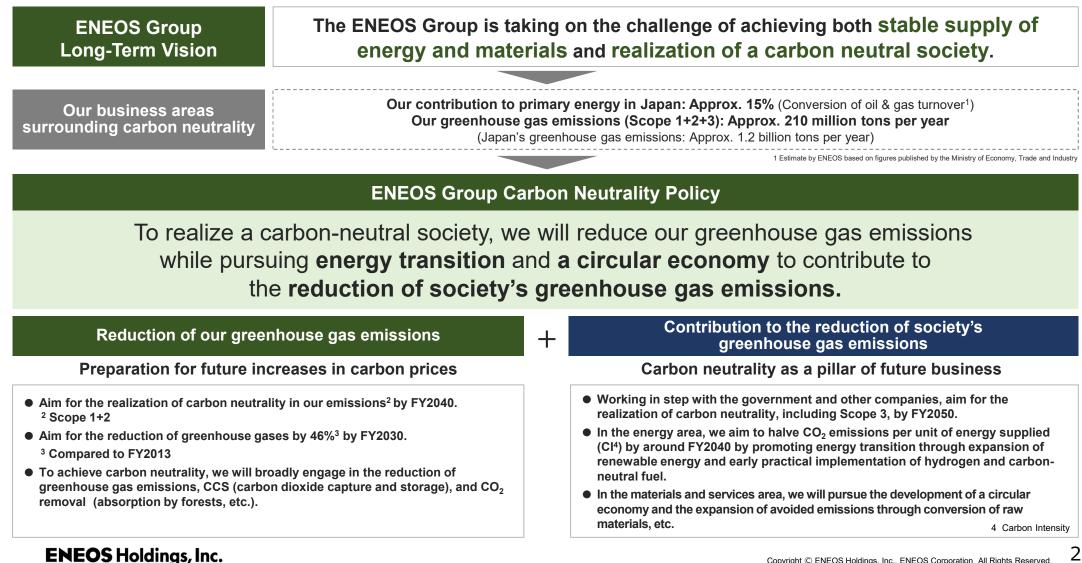


Third Medium-Term Management Plan Carbon Neutrality Plan



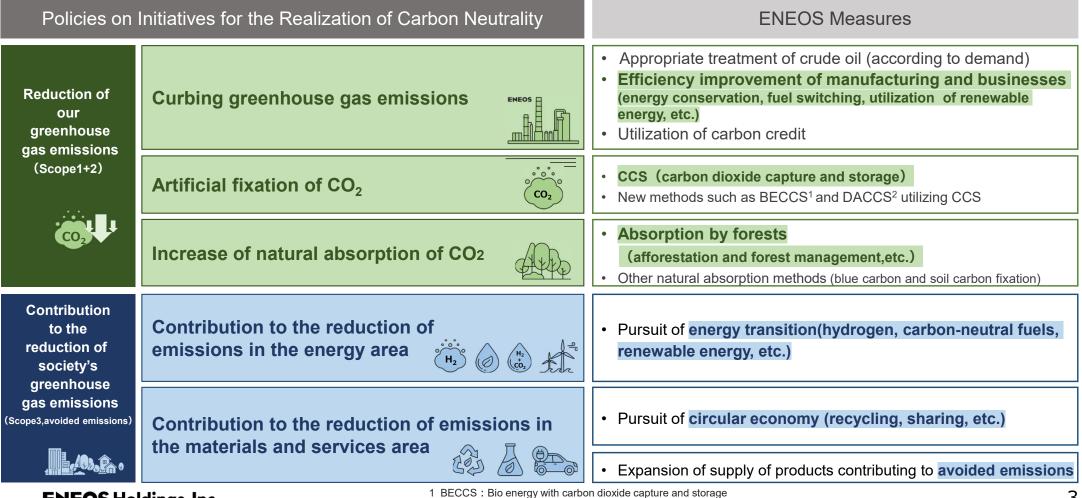
ENEOS Group Carbon Neutrality Plan



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Initiatives for the Realization of Carbon Neutrality

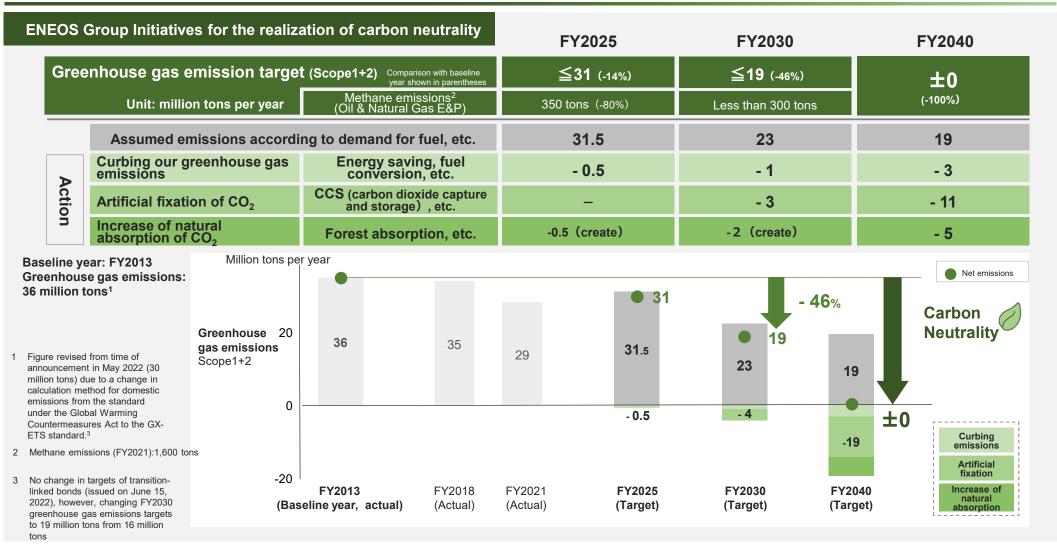
Pursue reduction of our greenhouse gas emissions while actively contributing to the reduction of greenhouse gas emissions of society



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2 DACCS : Direct air capture with carbon dioxide capture and storage Copyright © ENEOS Holdings, Inc., ENEOS Corporation All Rights Reserved

Roadmap for Reduction of ENEOS Group Greenhouse Gas Emissions



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4

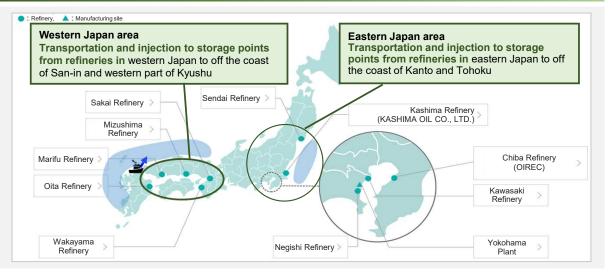
Efforts for Our Reduction of Greenhouse Gas Emissions

CCS (carbon dioxide capture and storage)

Aim at the start of domestic CCS from FY2030

ENEOS efforts for the realization of domestic CCS

- West Japan Carbon dioxide Storage Survey Co., Ltd. established jointly by three companies, Electric Power Development Co., Ltd., ENEOS, and JX Nippon Oil & Gas Exploration Corporation, for the storage of CO₂ in western Japan. (Feb. 2023)
- Acquisition of share of Japan Drilling Co., Ltd., which has offshore drilling technology necessary for CO₂ storage (Mar. 2023)



Increase of natural absorption

Promote the creation of credit of natural absorption such as absorption by forests

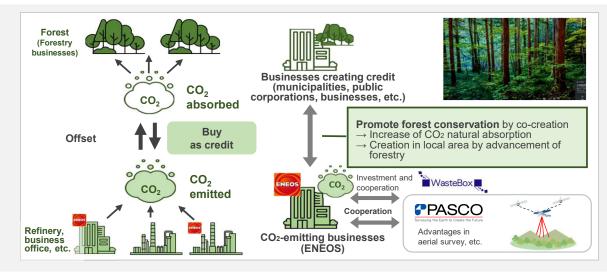
ENEOS efforts for absorption by forests abroad

• Decided to invest in large overseas fund of Japanese businesses formed by Sumitomo Forestry Co., Ltd. (May 2023)

ENEOS efforts for absorption by forests in Japan

- Agreed to J-Credit Creation Project with Niigata Public Corporation of Agriculture and Forestry, following Kumakogen Town, Ehime (Nov. 2022)
- Start joint study on support for J-Credit creation with PASCO CORPORATION (May 2023)

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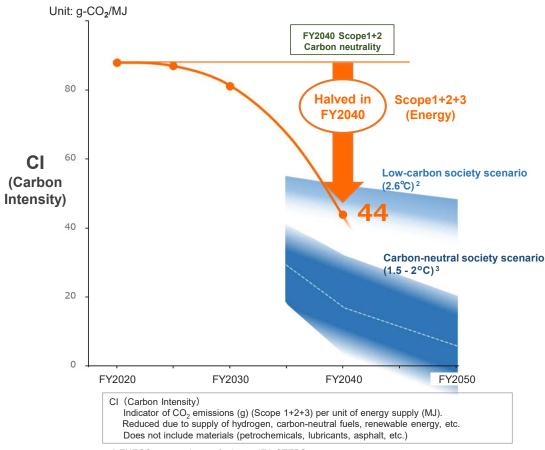


5

Pursuing Energy Transition

Aim to halve CO₂ emissions per unit of energy supply (CI) by FY2040

V	Business scale target for FY2040			
CO ₂ -free Hydrog	jen 讲	Establish the largest manufacturing and supply system in Japan	1 - 4 million tons	
Carbon- neutral fuels	SAF ¹	Establish the largest supply system in Japan	Domestic share 50%	
	Biofuel	Positioned as a fuel required for transition, effectively utilized as a base material	Supply 20% blend with gasoline* "Biofuel + Synthetic fur	
	Synthetic fuel	Operate large-scale commercial plant for synthetic fuel	Synthetic fuel manufacturing At least 10,000 barrels per day	
Renewable energy	the second	Establish a position as a major player in renewable energy power source development	Total power generated from renewable energy 6 – 8 GW	
CCS (for other compan (carbon dioxide capture and store		Create the largest CCS value chain in Japan and make it profitable	4 - 10 million tons	
		1 Sustainable Aviation	Fuel	



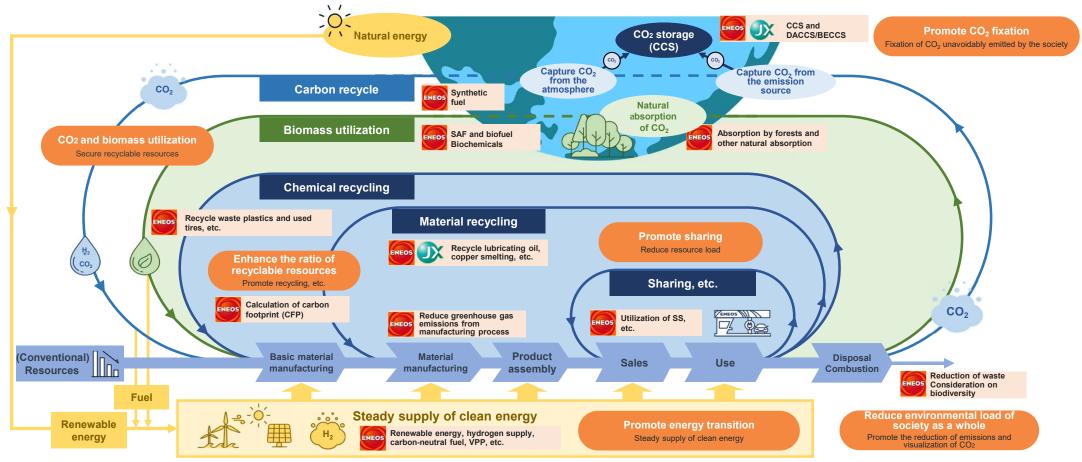
CI targets for the energy supplied by the ENEOS Group

2 ENEOS assumptions referring to IEA STEPS case, 3 ENEOS assumptions referring to IEA APS/NZE case

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Promotion of Efforts for the Realization of Carbon-Neutral and Circulating Society

Promotion of efforts for circular economy to realize circulating society independent from conventional resources



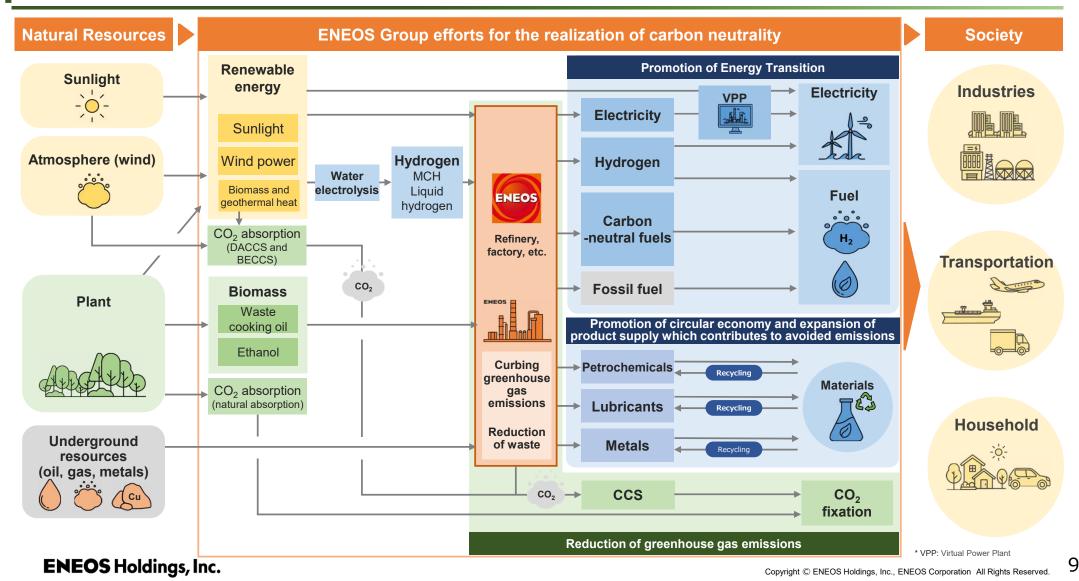
Road Map for the Reduction of Greenhouse Gas Emissions of Society

Efforts for the Realization of Carbon-Neutral Society				ciety	FY2025	FY2030	FY2040
		Promote energy transition	CI (Carbon Intensity)		87 g-CO ₂ /MJ	81 g-со₂/мј	44 g-CO ₂ /MJ
			CO ₂ -free Hydrogen		Investment decision for commercialization	250 thousand tons	1-4 million tons
			Carbon neutral fuels	SAF	1st case investment decision	500-700 thousand ĸ∟	Domestic share: 50%
	Energy field			Biofuel	-	Supply 10% mixing to high-octane gasoline	Supply 20% mixing to gasoline ^{*1} *1 Biofuel + Synthetic fuel
	nord			Synthetic fuel	Demonstration of 1 barrel/day-Scale	*1 Biofuel + Synthetic fuel Manufacture synthetic fuel 300 barrels/day	Manufacture synthetic fuel 10 thousand barrels/day or more
			Renewable energy Renewable energy total power generation capacity		2 GW	3 GW	6-8 GW
			CCS (for other businesses)		-	-	4-10 million tons
		Promote circular economy	Petrochemicals Non-fossil resource ratio* ²		20 thousand ton-scale Start of waste plastic liquefaction business	20%	35%
	Materials		Lubricants Recycling amount		Completion of demonstration	100 thousand ĸ∟	200 thousand ĸ∟
	and service field		Copper smelting Recycling ratio		-	25%	50%
			Final disposal ratio of waste		Less than 1.0%		
		Expansion of products which contribute to avoided emissions		l emissions	750 thousand tons-CO ₂ e	1,500 thousand tons-CO ₂ e	2,000 thousand tons-CO ₂ e
			(te-plastic-recycled oil, bionaphtha, etc.) against the pr 2e of avoided emissions (for fiscal 2040) by hydrogen	oduction volume of products derived from naphtha cracke and carbon-neutral fuel.

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Conceptual Diagram of Carbon Neutrality Plan



References

Carbon Neutrality Plan (Changes from the Plan Published Last Year)

			Carbon Neutrality Plan Published in May 2023	Carbon Neutrality Plan Published in May 2022
Changes	Scope1+2		Greenhouse gas emissions target is revised in line with GX-ETS calculation standard.	Emissions on the premise of Act on Promotion of Global Warming Countermeasures
	Scope3 and avoided emissions		Determine the specific and quantitative goals for the efforts and establish the intermediate targets (Promote energy transition/circular economy and expand products which contribute to avoided emissions)	No quantitative targets
Target setting	Scope1+2	FY2030	Reduction of greenhouse gas emissions by 46%* * Base year: Fiscal 2013	Reduction of greenhouse gas emissions by 46%* * Base year: Fiscal 2013
		FY2040	Net zero greenhouse gas emissions (Carbon neutrality)	Net zero greenhouse gas emissions (Carbon neutrality)
	Scope3 Avoided emissions	FY2040	Reduction of halve CO ₂ emissions per energy supply (CI*) * Carbon Intensity	_
		FY2050	Aim for the realization of carbon neutrality in step with the government and other businesses.	Aim for the realization of carbon neutrality in step with the government and other businesses.
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Road Map for Our Reduction of Greenhouse Gas Emissions

ENEOS	Group efforts for the realization	ition of carbon neutrality			
			FY2025	FY2030	FY2040
Greenhouse gas emissions target (Scope1+2) Figures in the parentheses indicate the ratio against base year			≦31 (-14%)	≦19 (-46%)	±0
	Unit; million tons/year	350 tons (-80%)	Less than 300 tons	(-100%)	
	Baseline according to the	31.5	23	19	
	Control of our greenhouse gas emissions	Energy saving, fuel conversion, etc.	-0.5	-1	-3
			-	-3	-11
A	Artificial fixation of CO ₂	CCS (carbon dioxide capture and storage)	-	-3	-10
Action		BECCS and DACCS	-	-	-1
			-0.5 (creation)	-2 (creation)	-5
	Increase of CO ₂ natural absorption	Absorption by forests	-0.5 (creation)	-2 (creation)	-4
		Other natural absorption*3	-	-	-1

Base year: Fiscal 2013

Greenhouse gas emissions (base year): 36 million tons*1

*1 The figures as of May 2022 (30 million tons) have been revised in association with the change of calculation method for domestic emissions from the standard of Act on Promotion of Global Warming Countermeasures to the standard of GX-ETS^{*4.}

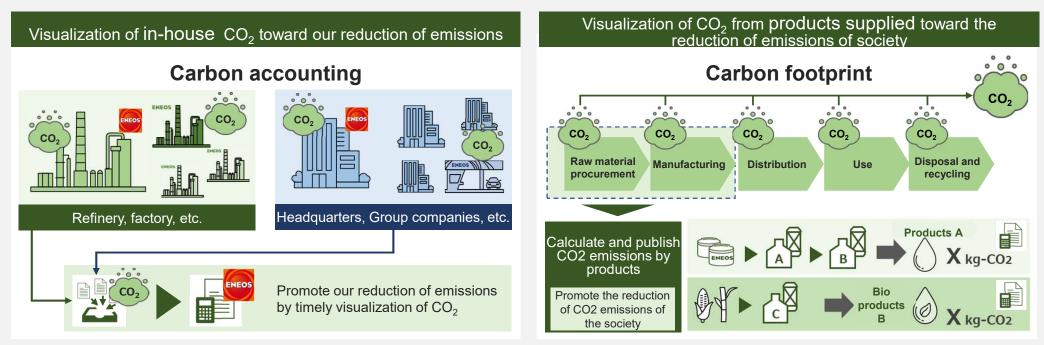
*2 Methane emissions (fiscal 2021): 1,600 tons *3 Blue carbon and soil carbon fixation, etc.

*4 The greenhouse gas emissions target for fiscal 2030 in the Transition-Linked Bond (issued on June 15, 2022) is changed from 16 million tons to 19 million tons.

Efforts for Our Control of Greenhouse Gas Emissions

Promotion of the visualization of CO₂

Promote the visualization of our greenhouse gas emissions and the society for the control of greenhouse gas emissions



ENEOS efforts for the visualization of CO2

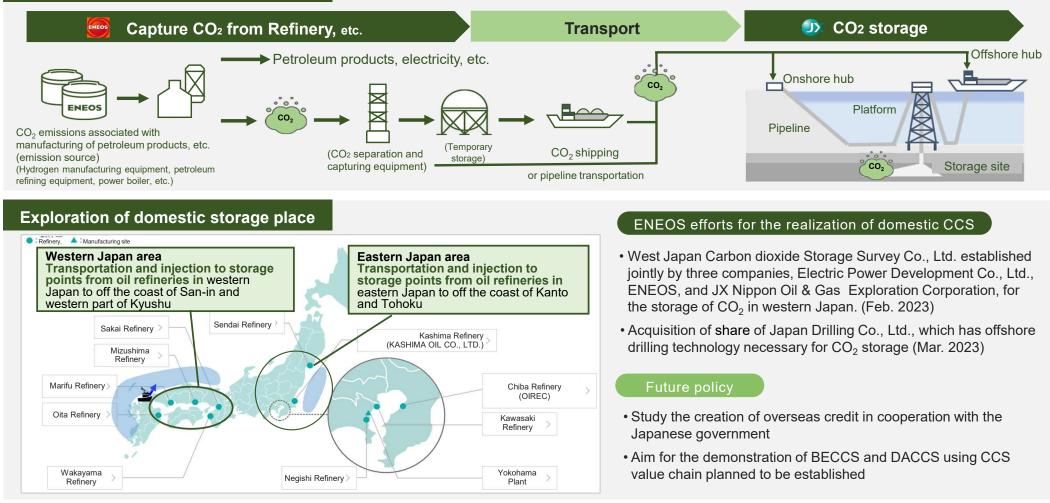
 Start of joint study on the domestic petroleum industry's first CO₂ visualization system in collaboration with WasteBox Co., Ltd. and NTT DATA Corporation. (Mar. 2023)

Future policy

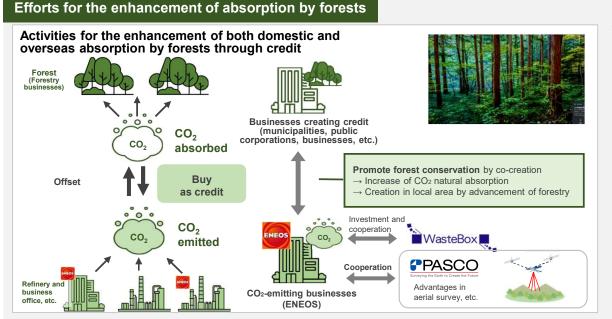
• Establish the system in fiscal 2023 and start operation for some products. Sequentially expand the target products

Efforts for CO₂ Fixation

Domestic CCS value chain of ENEOS



Efforts for the Enhancement of Natural Absorption of CO₂



ENEOS efforts for absorption by forests abroad

• Decided to invest in large overseas fund of Japanese businesses formed by Sumitomo Forestry Co., Ltd. (May 2023)

ENEOS efforts for absorption by forests in Japan

- Agreed to J-Credit Creation Project with Niigata Public Corporation of Agriculture and Forestry, following Kuma Kogen Town, Ehime (Nov. 2022)
- Start joint study on support for J-Credit creation with PASCO CORPORATION (May 2023)

Future policy

- Creation of J-Credit in cooperation with local governments and public forestry corporations
- Creation of credit (JCM, etc.) for absorption by forests abroad

Efforts for the Enhancement of Natural Absorption Other than Absorption by Forests

Example of negative emission method, which is attracting attention



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ENEOS efforts for blue carbon

• Authentication and acquisition of blue carbon credit in natural seaweed bed revitalization business (Mar. 2023)

Future policy

• Pursue initiatives for the demonstration of blue carbon, soil carbon fixation, etc. in Japan and overseas

List of Press Release on Our Efforts for Emission Reduction (May 2022 and after)

Carbon neutrality strategy		Holdings	May 2022	ENEOS Group Plan for Carbon Neutrality
		Holdings	May 2023	Establishment of ENEOS Group Carbon Neutrality Plan
Visualization of CO ₂		ENEOS	Mar. 2023	A first in the domestic petroleum industry Joint study launched on per-product CFP calculations and development of entity-level GHG emission management system
CCS		Holdings	May 2022	ENEOS and J-POWER collaborate on carbon neutralization of energy supply
	Domestic	ENEOS/JX	May 2022	Receive Entrustment of Domestic CO ₂ Emission Source Survey and Survey on Domestic CO2 Capture in Specific Region and Transportation
		ENEOS/JX	Jan. 2023	Japan's first full-scale CCS: ENEOS, JX and J-POWER to establish joint venture for feasibility study of domestic CCS storage projects
		Holdings	Sep. 2022	Acquisition of Equity of Petra Nova Parish Holdings LLC by JX Nippon Oil & Gas Exploration Corporation
		JX	Oct. 2022	JX and JGC Partner with PETRONAS to explore CCS Project
	Overseas	JX	Nov. 2022	JX and 8 Rivers Capital, LLC Sign MOU to Evaluate Gulf Coast to Deploy Sustainable, Infrastructure-Scale, Net Zero Solutions Project
		JX	Dec. 2022	Execution of Heads of Agreement with PETRONAS Carigali Sdn. Bhd.
		JX	Sep. 2022	Conclusion of a contract on joint research with JOGMEC on CO₂ mineralization
	Common	JX	Dec. 2022	JX Joins the CCS+ Initiative
		JX	Mar. 2023	Acquisition of share of Japan Drilling Co., Ltd.
BE	ccs	JX	Oct. 2022	The study on BECCS coherent demonstration model for CO2-negative hydrogen production from domestic biomass is adopted by NEDO project.
Absorption by forests		ENEOS	Nov. 2022	Signing of Partnership Agreement for "the Realization of a Decarbonized Society Through Forests Conservation"
	Domestic	Holdings	Jan. 2023	Start joint demonstration on forest development in consideration of biodiversity
		ENEOS	May 2023	Collaboration in creation of J-credits derived from Forest management using Aerial laser surveying
	Overseas	ENEOS	May 2023	Investment in large scale Forestry Fund in US
Other natur	al absorption	Holdings	Mar. 2023	Authentication and acquisition of carbon credit in revitalization business of natural seaweed bed