

# **ESG Presentation FY2023**

October 30, 2023

#### Cosmo Energy Holdings Co., Ltd.

**Shigeru Yamada**, Representative Director, Group CEO **Takayuki Uematsu**, Representative Director, Senior Managing Executive Officer **Junko Takeda**, Director, Senior Executive Officer

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# Vision 2030 & Sustainable management



#### Cosmo Energy Group's Sustainable Management

- The Cosmo Energy Group Management Vision encompasses our "The Basic Concept of Sustainability" and we are committed to sustainable management.
- Identify material issues as an important issue for both of the Group and society in the medium-to-long term.

#### **Cosmo Energy Group Management Vision**

In striving for harmony and symbiosis between our planet, man and society, we aim for sustainable growth towards a future of limitless possibilities.

#### The Basic Concept of Sustainability

Harmony
 Harmony and Symbiosis with the Global Environment
 Harmony and Symbiosis between Energy and Society
 Symbiosis
 Harmony and Symbiosis between Companies and Society

Creating Future Values

- Creating the Value of "Customer First"
- Creating Value from Diverse Ideas of the Individual
- Creating Value by Expressing Collective Wisdom

#### **Cosmo Energy Group's Code of Conduct**

**Cosmo Energy Group's Policies** 

#### Most important material issues

#### Sustainable value creation

- Climate change countermeasures
- Provision of green energy products/services
- Structural reform of profit-making businesses

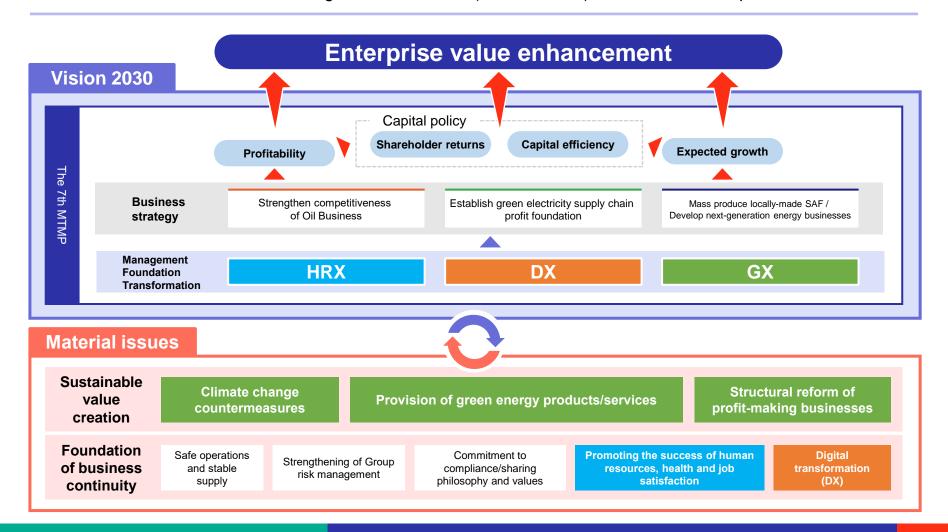
#### Foundation of business continuity

- Promoting the success of human resources, health and job satisfaction
- Commitment to compliance/sharing philosophy and values
- Strengthening of Group risk management
- Digital transformation (DX)
- Safe operations and stable supply



#### Material issues and the 7th MTMP & Vision 2030

 Material issues identified from a long-term perspective and the 7th MTMP are linked, and by addressing material issues, we will transform the management foundation (HRX, DX, GX) and enhance enterprise value.





#### Ideal Material issues and KPIs

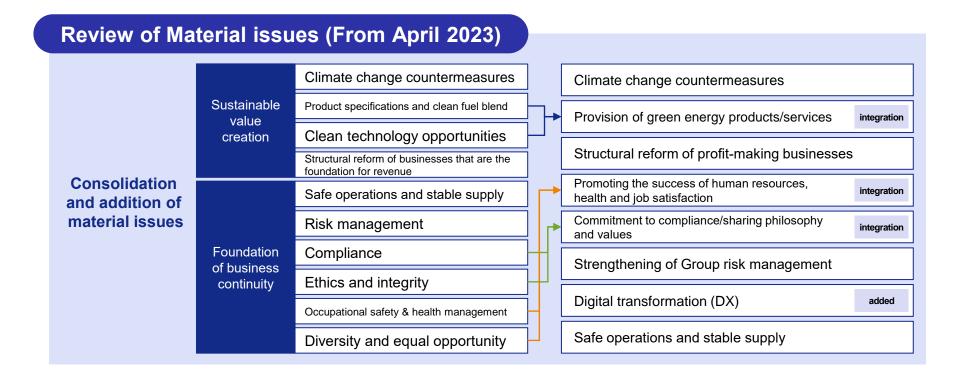
- In identifying material issues, we reconsider their "ideal state" and consolidate them into eight material issues.
- Set KPIs by backcasting from the ideal state, and set goals for the medium-term management plan period.

Identifying Material issues

In a specific process, establish the ideal state of material issues

Backcast from the ideal state and set KPIs

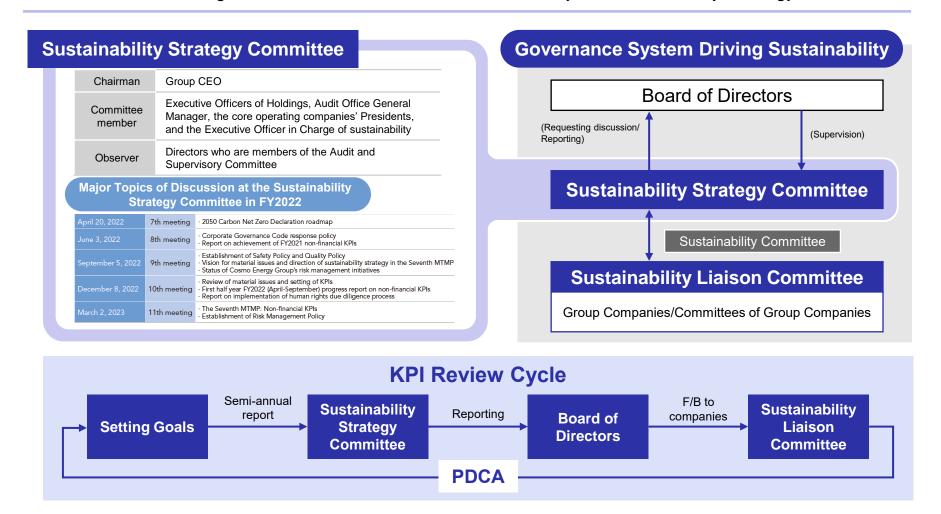
Set goals for the 7th MTMP period





#### Our Sustainability Governance

• As part of the governance structure of the Company, KPIs set based on the Company's material issues are monitored through submissions to the Board of Directors by the Sustainability Strategy Committee.





#### Governance promotion structure

- Improve diversity in terms of skills, gender and the balance between internal and external directors to ensure that the Board functions effectively and efficiently.
   (Of the nine directors, three are women and four are independent outside Director as of Oct.,2023)
- Consider the effectiveness of evaluation, using external bodies to further improve the effectiveness and transparency of the Board.

	Event	Director mix*	Female director mix*
Oct. 2015	Formed a holding company structure Shifted to company with an audit and supervisory committee structure Introduced share-based compensation plan	802	10
2019	TSR standard introduced for medium-to-long term incentive remuneration (2018) Appointed female directors (Audit and Supervisory Committee Member)	802	9
2021	Number of independent outside directors increased     Number of female directors increased	7 <b>0</b> 3	8 2
2022	Appointed a female executive officer as a director     Number of independent outside directors increased     Evaluation of ESG efforts introduced in annual incentive remuneration	5 4	6
'Audit an	nd Supervisory Committee	■ Independent	■ Female

outside directors

Experience, knowledge, and expertise etc. *1.2											
	Name	Corporate management	Petroleum Business (Oil)	Other businesses (New) (Renewable Energy Business/new businesses)	Sustainability (ESG)/risk management	Personnel affairs/human resource development/ diversity	DX/IT	PR/IR/brand marketing	Finance/ accounting/ taxation	Legal affairs/ compliance	Global- maindeness
	Hiroshi Kiriyama	0	0	0	0	_	_	0	_	_	_
	Shigeru Yamada	0	0	0	_	_	_	0	_	_	_
	Takayuki Uematsu	0	_	_	0	_	_	0	0	_	_
۵	Junko Takeda	_	0	_	_	0	_	_	_	0	_
Directors	Tatsuko Inoue	_	_	_	0	0	_	_	_	0	0
S	Takuya Kurita	_	_	0	_	0	0	_	_	_	_
	Toshiyuki Mizui	0	_	0	_	_	_	_	0	0	_
	Yasuko Takayama	_	_	_	0	0	_	0	_	0	_
	Keiichi Asai	0	0	0	_	_	_	_	_	_	0
ш	Noriko Rzonca	_	_	_	_	_	0	0	_	_	0
Executive Officers	Taisuke Matsuoka	_	0	0	_	_	_	_	_	_	_
tive (	Yoshihiko Sato	_	0	_	_	_	_	_	_	_	0
Office	Tomoki Iwai	_	0	_	_	_	_	_	0	_	_
S	Hideyuki Wakao	_	0	_	_	_	_	_	0	0	_
		5	8	6	4	4	2	5	4	5	4

<sup>\*1</sup> The expertise and attributes of each director disclosed here includes the areas in which they have outstanding knowledge and experience. It is not an exhaustive list of the capabilities of each director.



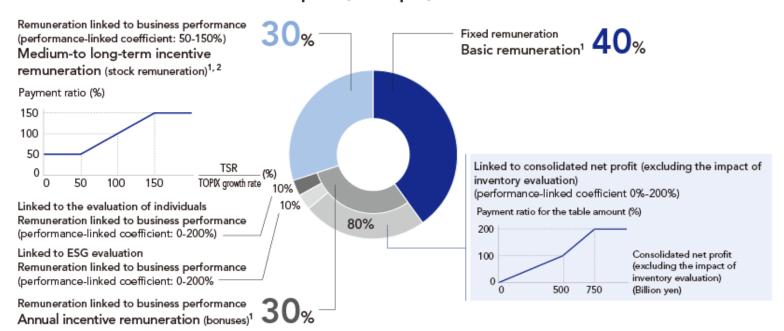
members included in "Directors."

<sup>\*2 &</sup>quot; " indicates the areas in which the individual has a higher level of expertise

#### Executive remuneration plan

- Revised the performance evaluation criteria to consolidated net income (excluding the impact of inventory valuation) to be consistent with the shareholder return policy announced in the 7th MTMP.
- Beginning in FY2022, efforts made towards ESG targets were reflected in remuneration.
   ESG targets as indicators are linked to material issues KPIs in the 7th MTMP.

#### Executive officer remuneration plan (example)



<sup>1</sup> The basic remuneration, annual incentive remuneration, and medium- to long-term incentive remuneration distribution ratio varies depending on the executive position.

<sup>2</sup> Linked to FY2023-2025 total shareholder return (TSR) growth rate relative to TOPIX and the consolidated net debt-to-equity ratio



# Green transformation (GX)

#### Material issues for sustainable value creation Climate change Providing clean energy, Structural reform of profitproducts, and services making businesses countermeasures Material issues that form the foundation of business continuity Promoting human Commitment to Strengthening of Digital resources' success. compliance and Safe operations Group risk transformation sharing of vision and stable supply health, and job management (DX) satisfaction and values



#### Roadmap to 2050 Carbon Net Zero

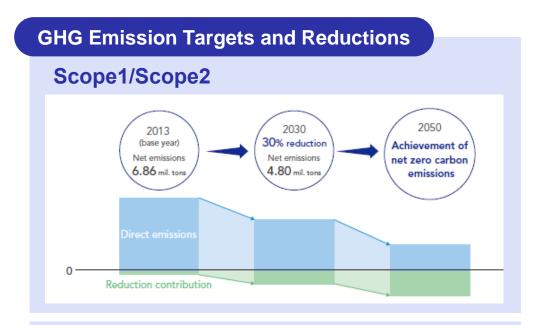
Declaration of carbon net zero by 2050, including Scope 3, to contribute to the realization of a
decarbonized society by working together with stakeholders on "To create energy that shapes the future".

#### **Our Group's Past Initiatives**

- The Sakaide Refinery was closed in 2013 for rationalization of the production system.
   CO<sub>2</sub> emissions reduction due to closure is approximately 1 million tons per year.
- Reduced emissions intensity by 7% over 10 years by promoting high-efficiency as well as energy-saving measures.

#### **Estimated supply status by 2030**

 Despite continued decline in demand, maintain high refinery utilization until 2030 by continuing the short position strategy, mainly due to lower imports.



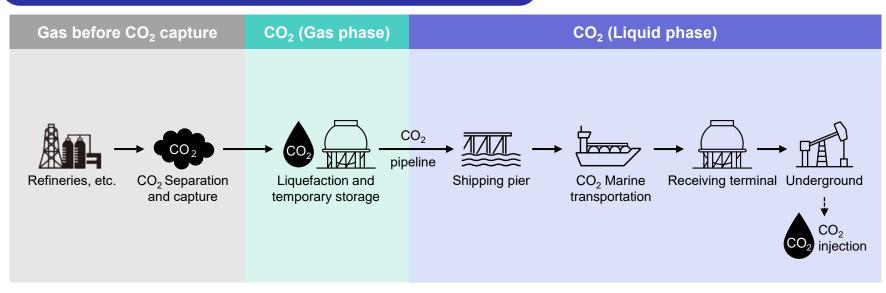
# Aiming for Net Zero in 2050 SAF and other Development and supply of biofuels Strengthening the Green Power Supply Chain and Carbon Recycled Product Initiatives



#### "Climate change countermeasures" efforts to reduce CO<sub>2</sub> emissions

- Negative emission technologies are used to reduce emissions in our roadmap.
- Joint study with Kansai Electric Power Co. (KEPCO) on liquefaction, storage, and shipping facilities, aiming to design larger-scale and more efficient facilities.
- Aiming to accumulate know-how, concluded a MOU on marine transportation with Mitsui O.S.K. Lines (MOL).

#### CO<sub>2</sub> Recovery/Storage (CCS) image



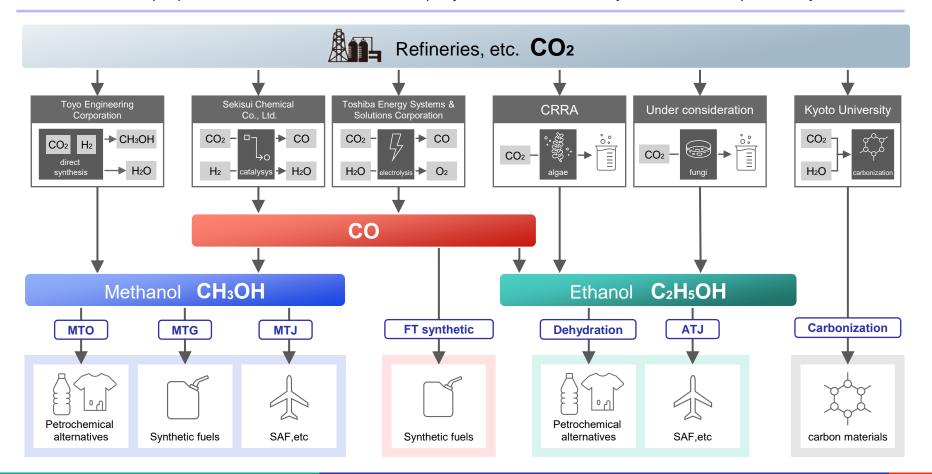
#### **Related Press Releases**

October 13, 2023	Started joint study with KEPCO to establish a CCS value chain in the Sakai-Semboku area
October 27, 2023	Signed MoU with MOL to study ocean transport for development of CCS value chain



#### "Climate change countermeasures" efforts to reduce CO<sub>2</sub> emissions

- Promoting consideration of effective utilization of CO<sub>2</sub> (CCU) beyond CCS.
- Individually collaborate with companies with cutting-edge technologies to convert CO<sub>2</sub> emitted from refineries, etc. into valuable resources.
- Examine multiple processes and work with each company to determine feasibility and investment profitability.





#### "Provision of green energy products/services" Initiatives for Scope3

 Contributing to the realization of a decarbonized society by working together with stakeholders on "To create energy that shapes the future".

#### Development and supply of Initiatives for hydrogen supply chain Bolster green electricity supply chain biofuels including SAF and carbon recycled products Ground-breaking ceremony for a Improving the added value of green electricity Considering partnering with Iwatani Corp. sales by providing platform for visualization and large-scale demonstration facility for Operation of hydrogen station for trucks locally-made SAF made from waste recycling of environmental value cooking oil, the first in the country, was implemented Visualization of electricity and in FY2024 "environmental value" that is being value" purchased Adopted for business related to dissipated by self consumption by local companies **Major** promotion of recovery of waste initiatives for cooking oil in Tokyo \*# **Purchase (** Scope3 Large-scale AHI production of value Utilize existing assets for hydrogen supply chain entry locally made SAF Pay in Cash, Platform Projection of completion of Exploring new hydrogen production Local companies can achieve PR demonstration technologies (turquoise hydrogen) "environmental value" are benefits and differentiation equipment returned in local currency. through purchases. Joint development with Toda Kogyo Corp. Wind power generation capacity **KPIs** for CO<sub>2</sub> reduction contribution from **Material** renewable energy (1Q FY2023 results) issues **New Business** Amount and percentage of 65,000ton/CO<sub>2</sub> clean fuel supply R&D/Investment



# Digital transformation (DX)

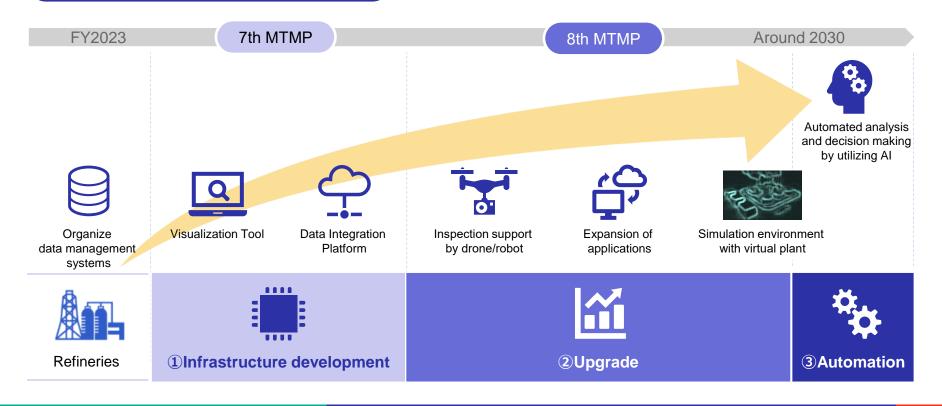




#### Strengthen competitiveness of existing businesses through DX

- Promoting the use of digital technology to ensure high uptime and high-efficiency operations at refineries.
- Pursuit of maintenance and operational optimization by focusing on advanced and non-routine decision making.
- Aim to improve productivity by utilizing the plant digital twin to increase the efficiency of existing operations.

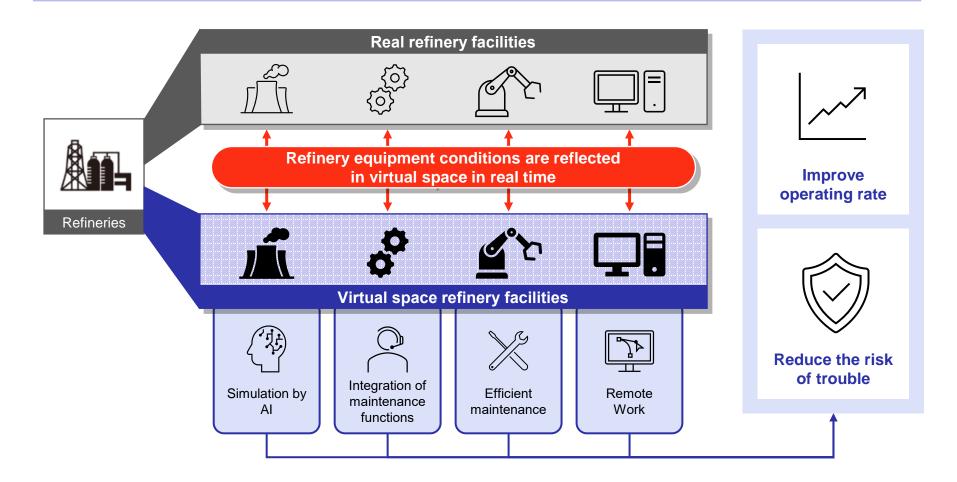
#### **Roadmap to Digital Refineries**





#### Strengthen competitiveness of existing businesses through DX

 The plant digital twin is the reproduction of real refineries in a digital virtual space and the creation of a state in which necessary refinery equipment information (operation data, repair history, equipment specifications, etc.) can be immediately accessed.





#### Strengthen competitiveness of existing businesses through DX

- Build plant digital twin by combining Visualization Tool and Data Integration Platform.
- Decided to introduce the system at all three refineries at the same time, accelerating collaborative maintenance (maintenance coordination/functional integration).

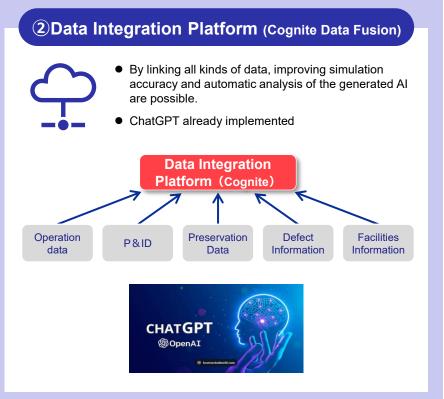
#### Two elements to build the plant digital twin

#### **1) Visualization Tool (INTEGNANCE VR)**



Equipment information and other information is registered in a 3D viewer based on 360° panoramic photographs. An environment is created where information on the site can be obtained from anywhere, enabling planning from remote locations.







# Human resource transformation (HRX)

#### Material issues for sustainable value creation Providing clean energy, Structural reform of profit-Climate change countermeasures products, and services making businesses Material issues that form the foundation of business continuity Promoting human Commitment to Strengthening of Digital resources' success. compliance and Safe operations Group risk transformation sharing of vision and stable supply health, and job management (DX) satisfaction and values



# Promotion of "Pursue a people strategy that motivates employees and harnesses their skills"

 Develop a human resources group that can realize Vision 2030 by strengthening the foundation of human resource capabilities such as "health" and "engagement," improving wellbeing, and transforming from the current common issues, thereby enhancing the human resource capabilities that drive the business forward.

#### Vision 2030

To create energy that shapes the future, energy that sustains society, and new forms of value



Bolster green electricity supply chain



Expand next generation energy



Strengthen competitiveness of Oil Business and pursue low carbonization

Human resource strength for driving force

 Capability to expand business areas and create new value  Capability to create new value based on existing business strengths  Capability to transform existing businesses through initiatives such as digitalization to further improve competitiveness

Direction of change required for human resources strategy

Homogeneity ↓
Expanding diversity

Other-oriented, passive

Shift to autonomous and proactive

Maintenance of status quo

Fostering a desire to grow

Analog and oral tradition

↓
Improve DX literacy

Human resource strength foundation

Wellness enhancement / higher engagement



#### Initiatives for Realization

• Implement specific initiatives in the areas of human resources training and development, organizational culture, and wellness to realize the ideal state of the human resource strategy.

	Human resources training and development	Organizational culture	₩ Wellness 🔏
Toward 2030 human resource strategy what we want to be	Self-directed career development  Training and development of change- and challenge-oriented, professional- type human resources	Maximize performance and increase engagement through diverse human resources and working styles	Promoting wellness management
Transformation direction	<ul> <li>Transformation to autonomous and proactive</li> <li>Fostering a desire to grow</li> <li>Improve DX literacy</li> </ul>	Further expand diversity	Wellness enhancement
Specific measures during 7th MTMP period	<ul> <li>Monitoring by the Human Resources Strategy Committee</li> <li>Promoting the right person in the right position by visualizing of capabilities and skills</li> <li>Succession planning for management talent</li> <li>Revies evaluation and promotion systems</li> <li>Expand job challenge system</li> <li>Cultivate core digital personnel</li> </ul>	<ul> <li>Accelerate securing diverse qualities and experience by brushing up recruitment strategies</li> <li>Continued female/mid-career hiring and active promotion based on capability</li> <li>Continued support for balancing childcare and work</li> <li>Promoting senior employee activation</li> <li>Development of a compensation system for professionals</li> <li>Realization of working styles that enhance productivity through promotion of "Cosmo's Work Style Guidelines"</li> </ul>	<ul> <li>Commitment by the Wellness Management Promotion Committee</li> <li>Educational activities to improve smoking, drinking and eating habits</li> <li>Organize wellness events</li> <li>Disseminate information and provide learning opportunities to establish healthy lifestyle habits</li> </ul>



#### KPIs in the 7th MTMP

Human resources training and development	Organizational culture	Wellness 🔏
Initiatives in FY2023 -Development of core digital personnel -Increase in company payments for personal development courses -Coaching by professionals	<u> </u>	
Human capital investment (per person) <b>¥180,000</b> (¥100,000)	Engagement index*2 <b>≥60Points</b> (57Points)	Healthy Lifestyle Index*3 61 Points (58Points)
Self-directed career development index*1  80Points (58Points)	Percentage of female managers  10% (6.7%)	Paid leave usage rate <b>90% or more</b> (93%)

\* ( ) is the result of the 6th MTMP

<sup>\*3:</sup> Average of the healthy percentage of the following 5 items among the results of periodic health checkups ((1) Exercise (2) Diet (3) Drinking (4) Sleeping (5) Smoking )



<sup>\*1:</sup> Percentage of positive respondents to the three career development items in the Employee Consciousness Survey

<sup>\*2:</sup> Percentage of positive respondents in the three categories of job satisfaction and pride in work in the Employee Consciousness Survey

# Appendix



### (Ref.) KPIs for material issues in the 7th MTMP

	Material issues	Vision for the future	KPIs	Related SDGs
e creation	Climate change countermeasures	GHG emissions are managed appropriately     Progress has been made toward achieving net zero carbon emissions by 2050	30% reduction in emissions by FY2030 (vs. FY2013)     CO <sub>2</sub> emissions reduction (Scope 1, 2)     CO <sub>2</sub> offset amount	12 <u></u>
Material issues for sustainable value creation	Provision of clean energy, products, and services	Clean fuel that meets customer needs has been developed and is supplied  We have become a leading company in domestic renewable energy generation  Clean products have been developed and are being provided across the entire value chain  Technologies and services that support low carbonization and decarbonization have been developed and are being supplied	Amount of clean fuel supplied and supply ratio Wind power generation facility capacity Other renewable energy generation facility capacity Construction of a green electricity supply chain Amount of next-generation raw materials supplied Sales excluding fossil fuels R&D expenses and investment in new businesses	7 ===   2 ===   2 ===
	Structural reform of profit- making businesses	Business profits are generated in a decarbonized society by investing profits from existing businesses in new businesses     Enterprise value is being enhanced through new businesses centered on clean technology	• Investment in New businesses	8 marant.
on of business continui	Promoting human resources' success, health, and job satisfaction	All employees can demonstrate their abilities to the fullest, regardless of age, gender, nationality, job type, affiliation, or work history Decisions are made through dynamic discussions that incorporate diverse opinions Overwork and harassment are prevented, and employees can work healthily and with peace of mind Employees take the lead in managing their own physical and mental healthcare, and manage and improve their health Employees autonomously improve and utilize their strengths and expertise to implement business strategies Employees are energetic and challenge themselves, and enjoy continuous growth with job satisfaction and fulfillment	Proportion of females in managerial roles Ratio of females among new university graduate hires Percentage of employees who have taken a stress check (mental health) Percentage of employees who have received lifestyle health guidance (physical health) Investment in employee education and training Employee awareness survey "work satisfaction/pride" score	
	Commitment to compliance and sharing/practice of vision and values	Laws, regulations, and social norms are observed     Officers, employees, and other staff members understand and observe the Group Management Vision, policies, and internal regulations     The Cosmo Energy Group Code of Conduct and policies are widely understood and individuals are able to make appropriate decisions	Number of compliance violations Employee awareness survey scores for "compliance education," "awareness of consultation helplines," and "understanding of Code of Conduct"	
	Strengthening of Group risk management	Both the Company's operational risks and strategic risks (including opportunities) can be identified, and risks are appropriately hedged or taken     Serious risks for the entire Group are understood and managed	Risks associated with CEG priority initiatives are additionally monitored Risks associated with priority initiatives undertaken by each company are monitored	
	Digital transformation (DX)	A corporate culture that uses digital technology to change work processes and continuously pursue innovation is being fostered to bring about business transformation  Efforts are being made to improve internal and external CX (customer experience) by providing customers and employees with solutions to solve internal and external challenges centered on data utilization	Cultivation of core digital personnel	8==== M
	Safe operations and stable supply	Employee injuries are prevented     Plant accidents and product (quality) accidents are prevented     Operations are carried out so they do not threaten the safety of the operating area or surrounding residents     A stable supply of energy is provided, even during disasters and emergencies	Number of work-related accidents  Number of accidents  Number of accidents with an impact on the environment  Number of days when supply was impossible	3



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The Company believes that the expectations reflected in those forward-looking statements are reasonable, but no assurance can be given that these expectations will prove to be correct and such forward-looking statements should not be unduly relied upon. The Company does not intend, and does not assume any obligation, to update these forward looking statements, except as required by applicable laws.

These forward-looking statements involve risks and uncertainties relating to, among other things, changes in oil prices, results of exploration and development activities, uninsured risks, regulatory changes, defects in title, availability of materials and equipment, timeliness of government or other regulatory approvals, actual performance of facilities, availability of financing on reasonable terms, availability of third party service providers, equipment and processes relative to specifications and expectations and unanticipated environmental impacts on operations. Actual results may differ materially from those expressed or implied by such forward-looking statements.

