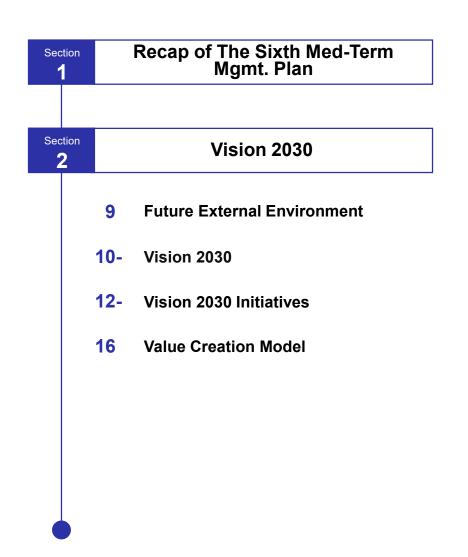
# **COSMO ENERGY GROUP**

The 7th Consolidated Medium-Term Management Plan

# Oil& New - Next Stage~







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<sup>\*</sup> Figures for FY2022 are contained the full-year forecast published on 9 February 2023 or the outlook.



# **Agenda**



## 6<sup>th</sup> MTMP\_Basic Policies



Under the slogan "Oil & New Everything About Oil – And Beyond," we implemented initiatives based on four basic policies.

We set out to bolster our profitability and financial position to achieve sufficient net worth and a net debt-to-equity ratio of 1.0-1.5 times in order to withstand changes in the market environment at an early stage.

#### **Basic policies**

Secure profitability to enable reinvestment
 Expand growth driver toward the future
 Improve financial condition
 Strengthen Group management foundation

#### Management goals

Ordinary profit (excl. impact of inventory valuation)	≥¥ <b>120.0</b> bil.	
Profit attributable to owners of parent	≥¥ <b>50.0</b> bil.	
Free cashflow (FY2018-2022 five-year cumulative)	≥¥ <b>150.0</b> bil.	
Net worth (Net worth ratio)	≥¥ <b>400.0</b> bil. (≥20%)	
Net D/E ratio	1.0-1.5 times	
ROE	≥ 10 %	



1

#### Secure profitability to enable reinvestment

#### **Initiatives**

Build a safe and stable operational framework (establish a supply shortage position)

Transform to bottomless refineries and increase profitable products by taking action ahead of IMO regulations

**Strengthen Vehicle Life Business** 

Achieve synergy with Petrochemical Business

Steadily recover investment in Hail Oil Field

#### Results

Started supplying oil to Kygnus Sekiyu K.K. Improved refinery operating ratio

87% (FY17\*) →**91% (FY22\*)** 

\*Four-year average on Calendar Day basis

Established zero High-sulfur C fuel oil production system

Increased production of Low-sulfur C fuel oil

Signed lease contracts for cumulative total of 100,000 vehicles 5 mil. carlife app downloads

Commenced operation of propylene rectifying tower

Started circulating raw materials and fuel between Petroleum and Petrochemical Business

Continued stable production at Hail Oil Field

Cosmo group production volume 38 kB/D (FY13-17 average)

→45 kB/D (FY18-22 average)

# 6<sup>th</sup> MTMP\_Recap (Key Initiatives and Results)



2

#### **Expand growth driver toward the future**

#### **Initiatives**

Early development of offshore wind power (Expand Onshore wind power)

Strengthen Petrochemical Business and increase its product line

Explore new businesses to drive future growth in domestic and overseas market

#### Results

Developed 150MW new onshore wind farm Commenced operation of Japan's first large-scale offshore wind farm Developing multiple offshore pipelines

**Expanded semiconductor photoresist** resin production capacity

Started cooperation toward SAF production Began exploring ways to collaborate with ADNOC or Masdar in area of decarbonization

# 6<sup>th</sup> MTMP\_Recap (Key Initiatives and Results)



3

#### Improve financial condition

#### **Initiatives**

Increase net worth based on profit

#### Results

#### Net worth

¥238.7 bil. (FY17)

→¥527.0 bil. (FY22)

#### Net D/E ratio

2.30 times (FY17)

 $\rightarrow$  1.05 times (FY22)

4

# **Strengthen Group management foundation**

#### **Initiatives**

Implement sustainable management

#### Results

Established sustainability promotion framework

Issued 2050 Carbon Net Zero Declaration and disclosed roadmap

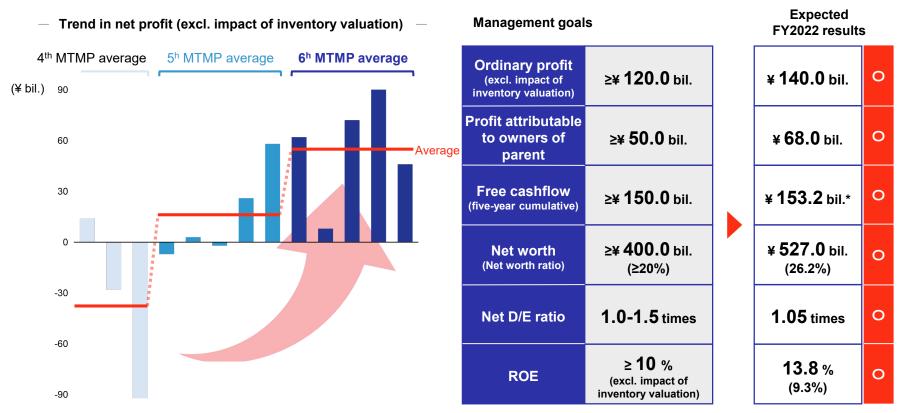
Expanded range of diversity (women's empowerment) initiatives; appointed female directors and increased proportion of women in managerial roles

Developed next-generation energy/ technology promotion framework

# 6<sup>th</sup> MTMP\_Recap (Achievement of Management Goals)



Significantly increased our profitability by steadily implementing initiatives
Achieved all management goals set out in The Sixth Med-Term Mgmt. Plan
The Seventh Consolidated Med-Term Mgmt. Plan will take us to the next stage



<sup>\*</sup> Excl. impact of subsidies to curb the impact of a surge in gasoline and other fuel prices (approx. -¥44.0 bil.), which is a transient factor.



# **Agenda**



#### **Future External Environment**



Efforts to achieve carbon neutrality by 2050 will progress and the world will enter an era of energy transformation.

	Present		2030	2050	
Societal demand for decarbonization		<ul><li>2030</li><li>46% reduction emissions (vs.</li></ul>	in domestic GHG 2013)	<ul><li>2050</li><li>Carbon neutrality</li></ul>	
	Japan  Continued tapering				
Decreasing petroleum demand	*METI: FY2026 Outlook for Petroleum P  Overseas   Growth centered o  *IEA: World energy outlook 2022, IEEJ:	n emerging markets	Overseas   Peak ou	t around 2040	
Widespread use of renewable energy	Renewable energy becoming a staple power source  Renewable energy accounts for 36-38%  of all electricity generated (2030 target)				
Evolving	Validation of hydrogen/ammo	onia as a power source		r with fossil fuels	
decarbonization technologies	Development of CCS technol implementation of site suitab	logies and oility surveys	Societal uptake (gradu	ally from 2030)	
Accelerated DX and	*METI: CCS Long-Term Roadmap Study  2026: Development of 2.3 mil with digital skills (GOJ policy	I. human resources			
advancements in human capital management	Increased importance of hun (integration of management	nan capital managemei			



# Vision 2030

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



Bolster green electricity supply chain

Build a high value-added supply chain that encompasses power generation, supply-demand adjustment and sales



Expand nextgeneration energy

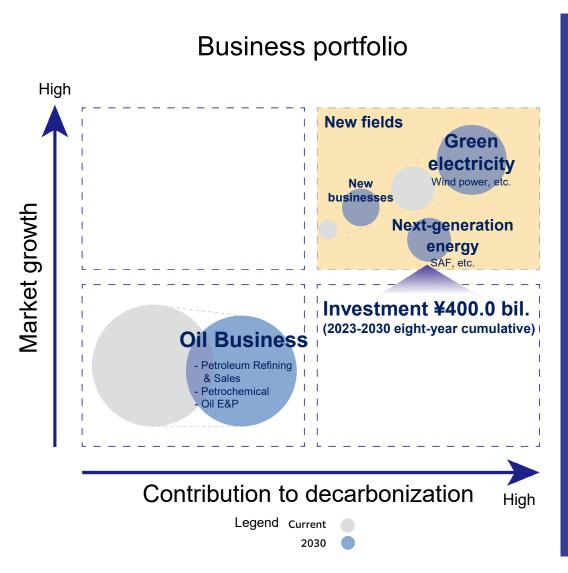
Supply SAF and develop hydrogen and other energy businesses



Strengthen competitiveness of Oil Business and pursue low carbonization

Enhance competitiveness by digitizing refineries, etc. and shift to low-carbon operations through CCS/CCUS







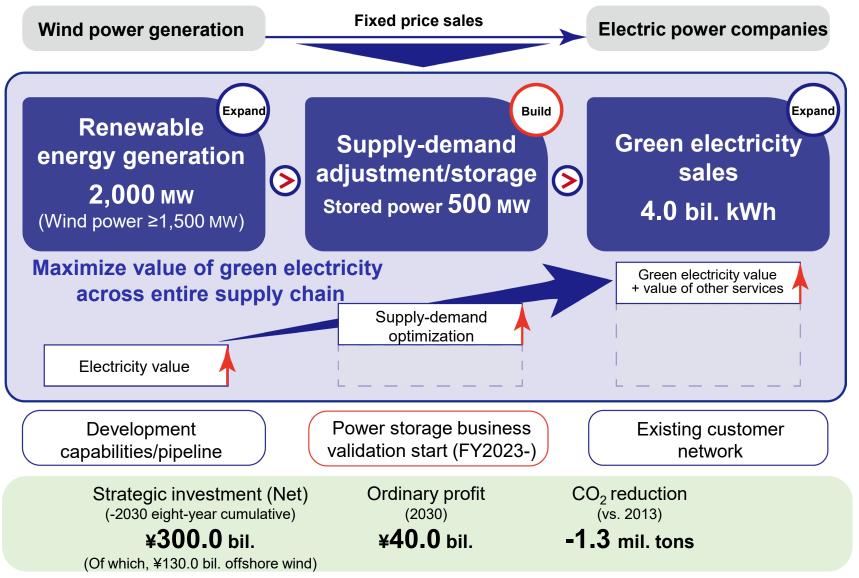
# Vision 2030\_Bolster green electricity supply chain (1/2)







#### Transformation of the current business model



## Vision 2030\_Bolster green electricity supply chain (2/2)









Renewable energy generation 2,000 MW

(Wind power ≥1,500 MW)



Supply-demand adjustment/storage Stored power **500** MW



Green electricity sales

4.0 bil. kWh

# Development capabilities/pipeline

Onshore wind power: current capacity

300<sub>mw</sub>



Onshore wind power: planned capacity

600<sub>mw</sub>

(of which 400 MW is under construction/development)

Offshore wind power: planned capacity

600<sub>mw</sub>



COSMO

Cosmo Eco Power Co., Ltd.

Integrated development/
O&M framework

Power storage business validation start (FY2023-)



Installation of storage batteries at power plants/grid-scale storage systems

# Existing customer network



S グリーン Cosmo Denki Green Introduced at

over

1.000 sites

Cosmo Zero Carbon Solution

RExEV solution



COSMO

5 mil. app downloads



□ COSMO

□ スモMyカーリース
Cosmo My Car Lease

60,000 Eco Card holders Lease contracts signed for cum. total of 100,000 vehicles

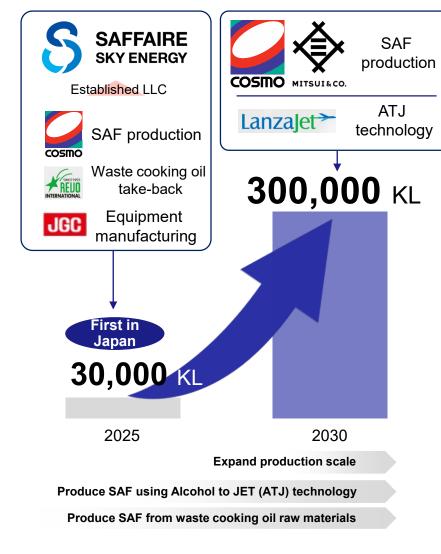
## Vision2030\_Expand next-generation energy







#### Mass production of Japan's first locally-made SAF



#### Development of hydrogen and other energy businesses

#### Entry into hydrogen supply chain

© Considering partnering with Iwatani Corp. Operation of hydrogen station for trucks



Use of existing assets for entry into hydrogen supply chain

Exploring new hydrogen production technologies (turquoise hydrogen)

Joint development with Toda Kogyo Corp.

\*In addition, we will undertake R&D and proof-of-concept testing for waste plastic recycling as well as ammonia, synthetic and other fuels.

Strategic investment (-2030 eight-year cumulative)

¥100.0 bil.

Ordinary profit (2030)

CO2 reduction (vs. 2013)

¥10.0 bil. -400,000 tons

#### Vision 2030 Strengthen Oil Business competitiveness and pursue low carbonization

2030







Competitiveness strengthening



2022

Oil E&P





**Petrochemicals** 

Early production/ recovery of crude oil [Production volume 50kB/D]

Shift to highefficiency refineries [Operating ratio (CD) 94%]

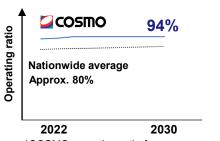
**Expansion of** specialty chemicals [Profit ¥10.0 bil.]

\*New fields

Start production in new Abu Dhabi exploration block (Offshore Block 4)



Digitize refineries



\*COSMO operating ratio four-year average \*Nationwide operating ratio 2018-2021 actual basis

Increase production of semiconductor photoresist resins



carbonization

# Low carbonization of Oil Business

[CO<sub>2</sub> reduction: -300,000 tons +  $\alpha$ ]

- Promote conversion to low-carbon fuels in Petroleum Refining & Sales and Petrochemical businesses, and energy conservation
- Realize CCS/CCUS in partnership with Abu Dhabi National Oil Company

Strategic investment (-2030 eight-year cumulative)

¥200.0 bil.

Ordinary profit (2030)

(four-year average)

¥150.0 bil.

CO<sub>2</sub> reduction

 $-300,000 \text{ tons} + \alpha$ 

#### **Value Creation Model**



The Cosmo Energy Group will enhance enterprise value while addressing the most important material issues, leveraging tangible and intangible management resources to realize The Seventh Medium-Term Management Plan and Vision 2030, which integrate financial and non-financial initiatives.





# **Agenda**



#### **Basic Policies and Strategies**

Capital Policy

Management Goals



Having achieved a certain degree of success in improving our financial position under The Sixth Med-Term Mgmt. Plan, The Seventh Med-Term Mgmt. Plan will take us to next stage. We aim to continuously enhance enterprise value as we look to fulfill Vision 2030.

2050

Net zero carbon emissions

Vision 2030

FY2023-2025

FY2018-2022 The Sixth Consolidated Med-Term Mgmt. Plan

Oil&New

2017 **2022**New worth ¥238.7 bil. **¥527.0 bil** 

Net D/E ratio 2.3 times 1.05 times

Financial position improvement

The Seventh Consolidated Med-Term Mgmt. Plan

Oil & New ~ Next Stage ~

Enterprise value enhancement

Profitability Capital policy (Shareholder returns/ Financial health/ Capital efficiency)

Management foundation transformation (HR/Digital/Green)

# 7<sup>th</sup> MTMP\_Toward Enhancement of Enterprise Value



# **Enterprise value enhancement [PBR improvement]**



**Profitability** 

Ordinary profit (2025)

≥ ¥165.0 bil.

Profit attributable

to owners of parent (2025)
≥ ¥60.0 bil.

**Capital policy** 

# Shareholder returns

Three-year cumulative ≥60%
(Dividend ≥¥200 per share)



ROE **≥10**%

#### Financial health

Net D/E ratio **1.0** times Net worth ≥¥600.0 bil.



Expected growth

PER improvement



Business strategy

Strengthen competitiveness of Oil Business

Establish green electricity supply chain profit foundation

Mass produce locally-made SAF/ Develop next-generation energy businesses

**HRX** (Human Resources Transformation)

Pursue a people strategy that motivates employees and harnesses their skills

**DX** (Digital Transformation)

Transform business model through digital capabilities and change management

**GX** (Green Transformation)

Realize roadmap to achieve net zero carbon emissions in 2050



# Oil&New ~Next Stage~

#### Secure profitability

Ensure **high uptime and high-efficiency operations** at refineries

Increase sophistication of fuel oil sales through **marketing science** 

Maximize production volume of Oil E&P Business

#### **Expand New fields to drive growth**

Establish green electricity supply chain profit foundation

Mass produce Japan's first locally-made SAF

**Expand Mobility Business** in anticipation of shift to FVs

Increase specialty chemicals profit

#### Realize three-pronged capital policy

Proactively return profits to shareholders

Secure sound financial health from multiple perspectives

Achieve stable capital efficiency

#### **Transform management foundation**

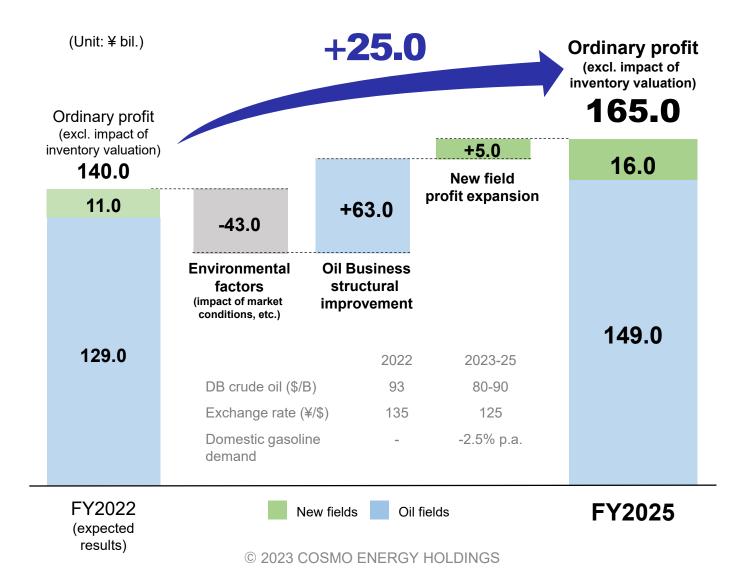
HRX: Pursue a people strategy that motivates employees and harnesses their skills

DX: **Transform business model** through digital capabilities and change management

GX: Realize roadmap to achieve net zero carbon emissions

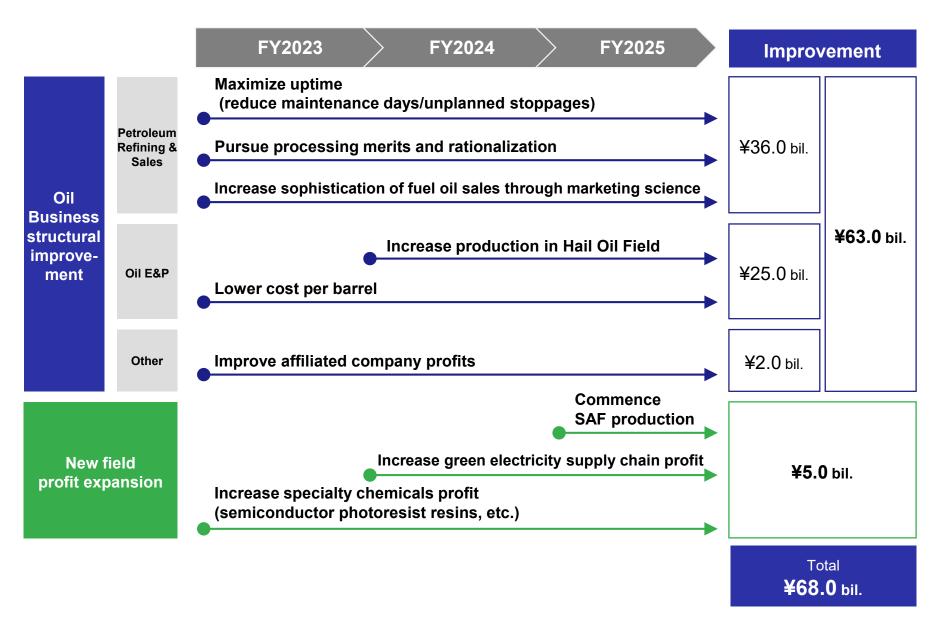


Secure ordinary profit of ¥165.0 billion, with a focus on structural improvements in Oil Business.

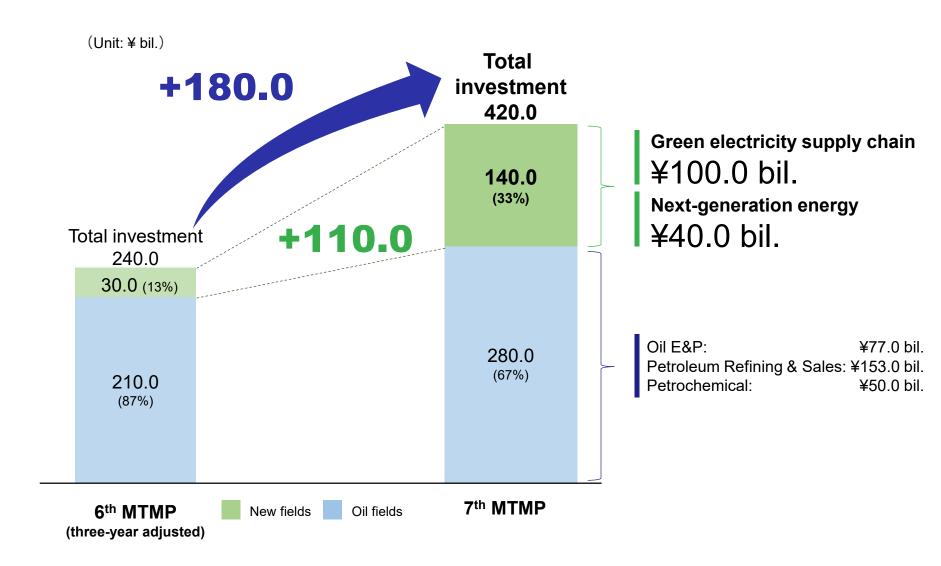


# 7<sup>th</sup> MTMP\_Profit Improvement Initiatives



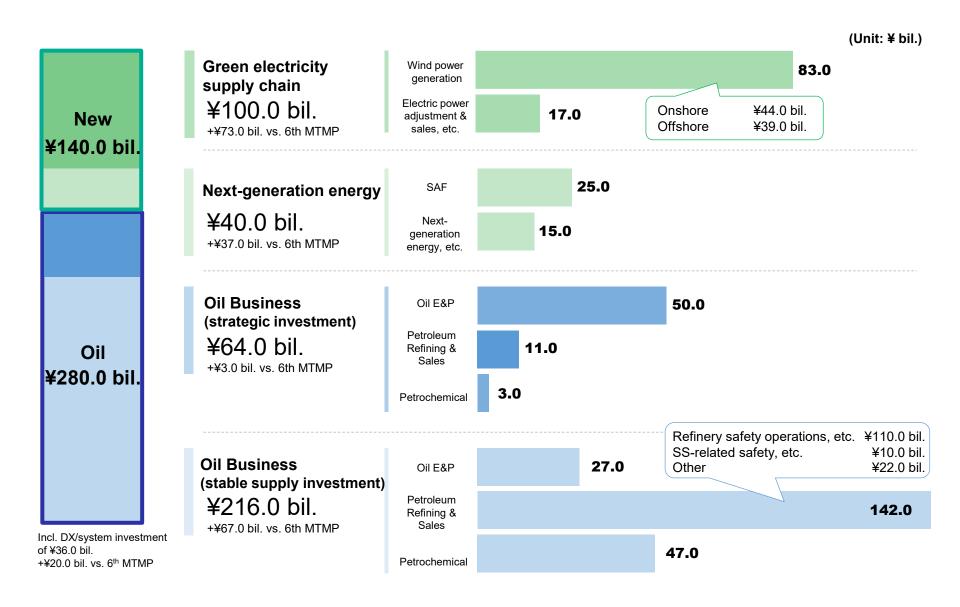






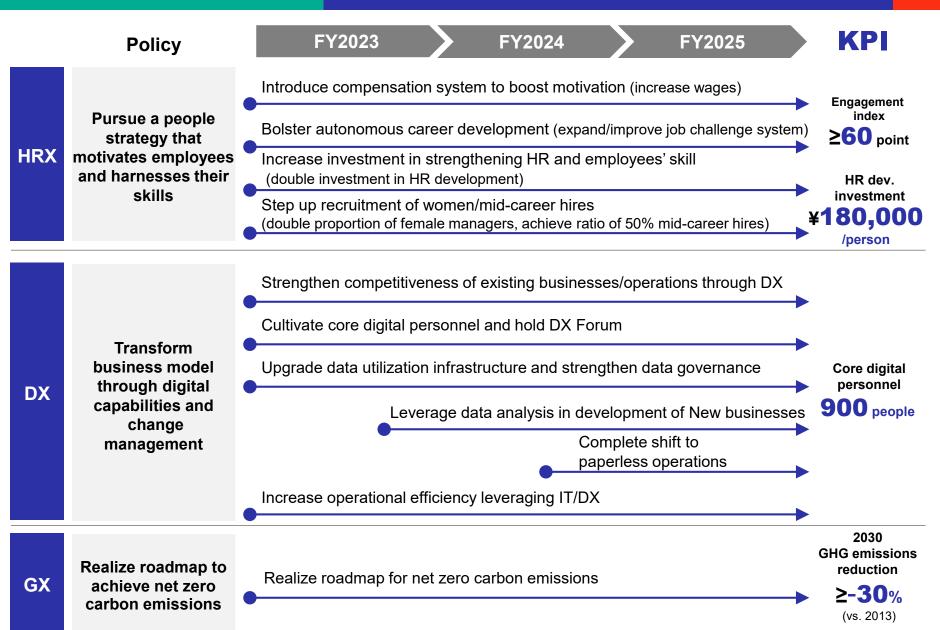
## 7<sup>th</sup> MTMP\_Investment Plan





# 7<sup>th</sup> MTMP\_Management Foundation Transformation





## 7<sup>th</sup> MTMP\_HRX (Human Resources Transformation)



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

#### **Motivation/Autonomy**

Bolster autonomous career development opportunities

Expand/improve job challenge system

Introduce compensation system to boost motivation

Provide employee returns

(8% wage increase\*1)

Revision of the senior employee system (same treatment system as for permanent staff)

Theroughly implement a results oriented

Thoroughly implement a results-oriented approach by reviewing valuation system

Expand flexible work styles to boost productivity

Limited work location system

WFH up to 5 days/week

Telework outside home up to 8 days/month

Flexible working hours with no core hours

Lead the company and employees to growth by integrating management and people strategies

#### Capabilities/Diversity

# Strengthen managerial talent/specialist pool

Increase/develop managerial talent/specialists

# Increase investment in upskilling of employees

Double investment in HR development

# Pursue hiring of diverse talent (D&I)

Step up recruitment of women/
mid-career hires
(double proportion of female
managers\*2)
(achieve ratio of ≥50% mid-career
hires\*3)

#### Enhance talent portfolio

Visualize quality (skills) and quantity (manpower) of required talent by revamping personnel system, and ensure placement and training of right people in right role

\*1 FY2023 average of union member (vs. FY2022)

\*2 FY2025 target 10% (double vs. FY2022)

\*3 Target from FY2023

\*4 FY2025 target, calculated based on Employee Consciousness Survey Engagement index\*4

≥60 points

Educational investment per employee\*5

¥180,000 (double current amount)

<sup>\*5</sup> FY2025 target



# Transform business model through digital capabilities and change management

CURRENT >

# Strengthening of competitiveness

# Reinforce electric power/oil supply chains

Digitize, automate and strengthen linkage in each field

#### Promote digitization of refineries

Stabilize/improve efficiency of operations through fault sign detection and remote monitoring, etc.

# Increase sophistication of marketing science Improve mobility and CX/UI

**Enhance data governance/security** 

### **New value creation**

To be a community enablers that uses digital capabilities to reform the culture and solve problems for customers and society

**▶**FUTURE

### **Establishment of DX promotion foundation and cultivation of digital talent**

DX event participation Total 20,000 people/year

DX Forum \*1 24 times/year

CDO CUP \*2 60 projects/three years

IT/DX-driven operational efficiency improvement 10% (vs. 2022)

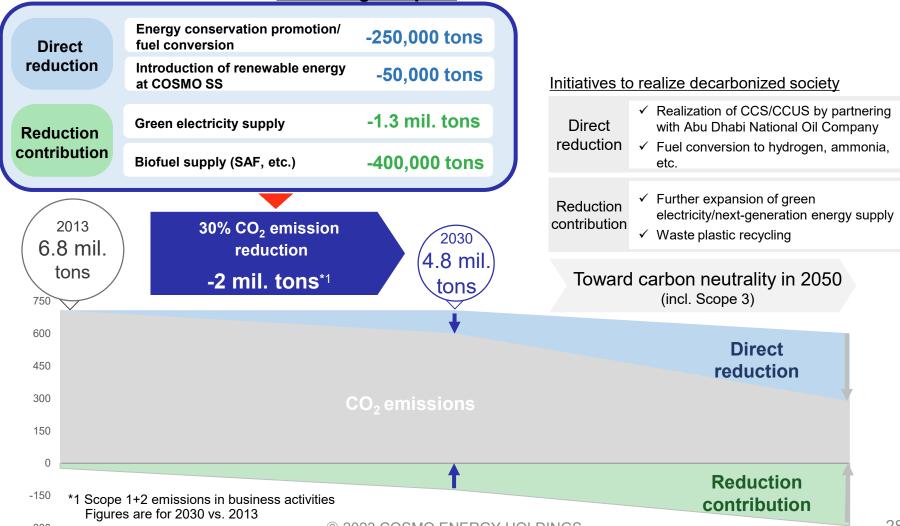
Development of 900 core digital personnel

<sup>\*1</sup> DX Forum: Program to provide employees with information on the latest digital-related technologies and DX talent qualities, with the aim of improving their DX literacy
\*2 CDO CUP: An in-house program to support the execution of DX projects selected from within the Cosmo Energy Group by a DX Taskforce, with the aim of accelerating DX

# 7<sup>th</sup> MTMP\_GX (Green Transformation)



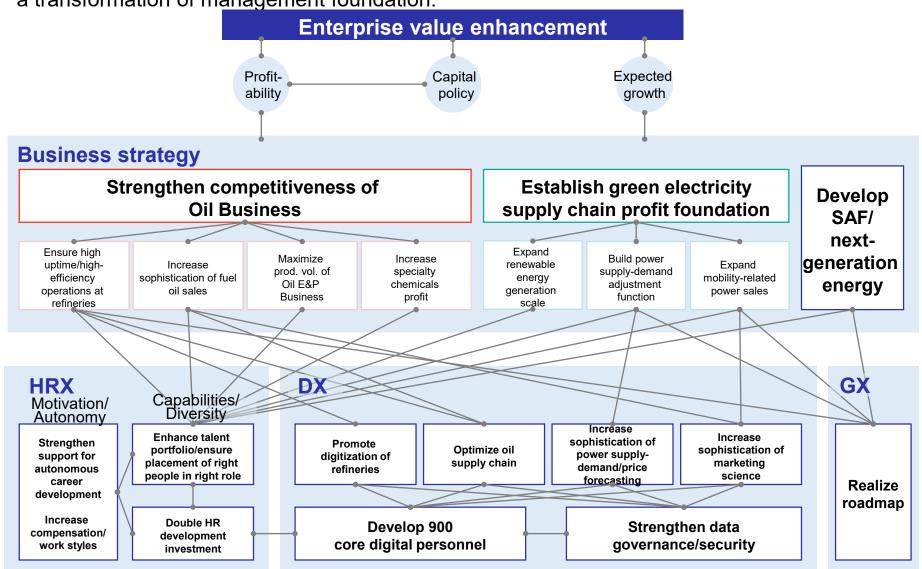
Through the initiatives set out in The Seventh Med-Term Mgmt. Plan and Vision 2030, we will reduce our  $CO_2$  emissions by two million tons (30% reduction from 2013) by 2030. To contribute to achieving carbon neutrality for society as a whole, we aim to achieve net zero carbon emissions including scope 3 in 2050.



# 7<sup>th</sup> MTMP\_Enterprise Value Enhancement Through Financial and Non-Financial Initiatives



Enhance enterprise value by integrally implementing our business strategy and a transformation of management foundation.





# **Agenda**



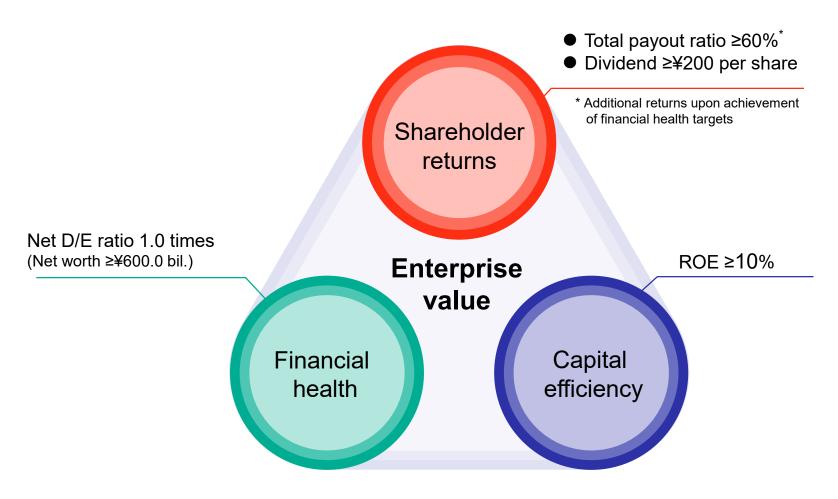
Basic Policies and Strategies

# **Capital Policy**

**Management Goals** 



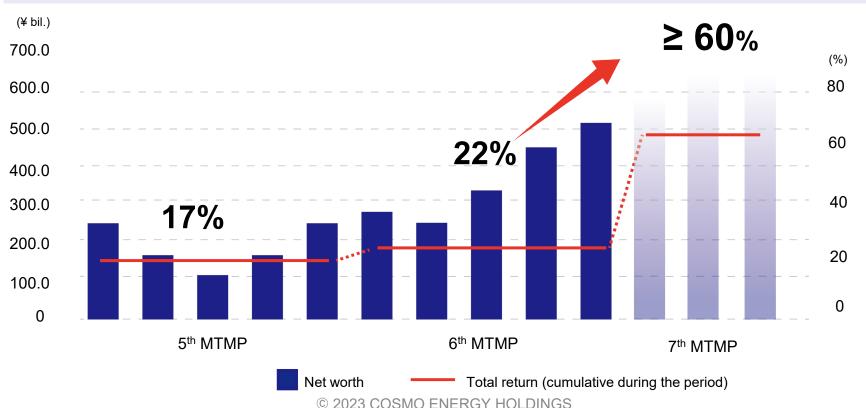
We aim to maximize enterprise value through a three-pronged approach that places equal emphasis on shareholder returns, financial health and capital efficiency.





# Return policy

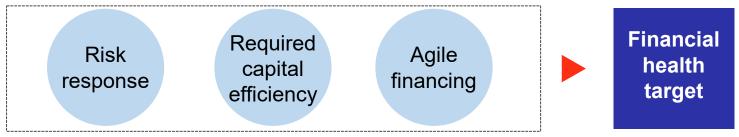
- Realize a cumulative three-year total payout ratio of at least 60%\* of net profit excl. impact of inventory valuation
- Pay a stable minimum dividend of ¥200 per share
  - \* In principle, provide additional returns if financial health targets are achieved Timing of additional returns to be decided during the three-year period of the Med-Term Mgmt. Plan



## 7<sup>th</sup> MTMP\_Financial Health



- We carefully scrutinized our necessary net worth from multiple perspectives: risks associated with our assets in each segment, required capital efficiency, and agile financing.
- We set a target net debt-to-equity ratio of 1.0 times based on the assumption that we can continue to maintain a balance between debt and net worth on par with current levels.
- Net worth calculated based on risks associated with assets in each segment\* has been set at ¥600.0 bil. or more. \*Calculated based on assets as of end of FY2021

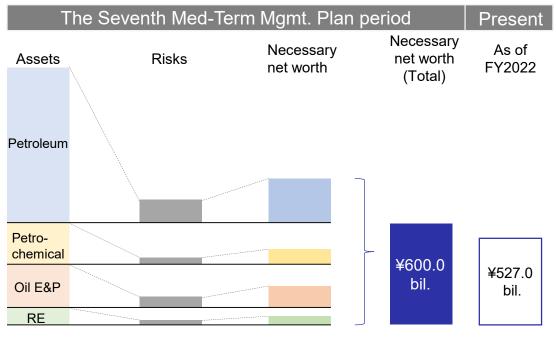


Method for risk-based calculation of necessary net worth

Selected comparable companies from Japan and abroad for each business segment as follows (total approx. 130 companies)

Petroleum Approx. 40 co.
Petrochemical Approx. 30 co.
Oil E&P Approx. 30 co.
Renewable Energy Approx. 30 co.

Analyzed performance of each company in previous fiscal years and calculated risks associated with assets and necessary capital to offset these risks

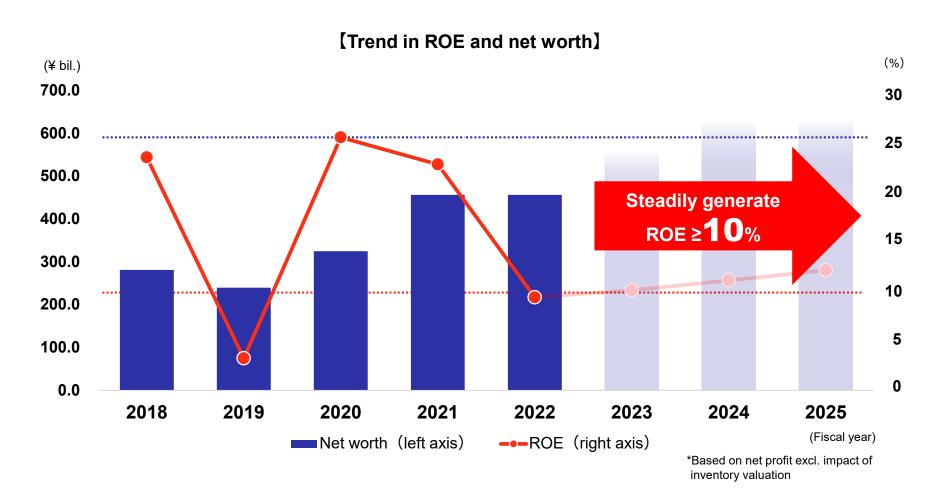


# 7<sup>th</sup> MTMP\_Capital Efficiency



We project that net worth, which increased significantly under The Sixth Med-Term Mgmt. Plan, will improve further toward our target.

Meanwhile, we aim to steadily generate ROE of 10% or more.





# **Agenda**





#### The Seventh Med-Term Mgmt. Plan \_\_\_\_ cumulative cash balance

Assumed financial indicators at end of FY2025

Cash <b>IN</b> 520.0		Cash OUT 520.0	- (¥ bil.)		Target at end of FY2025	Ref.) Expected results at end of FY2022
P 165.0	Profit attributable to owners of parent  Depreciation and amortization	100.0	Shareholder returns *1 ROE 10%	10%	14%	
		140.0	Investment for New fields	Net worth (Net worth ratio)	<b>¥600.0</b> bil. (28%)	¥527.0 bil. (26.2%)
195.0		(Strategic investment) 64.0		Net D/E ratio	1.0 times	1.05 times
115.0	etc.	280.0				
45.0				Net interest- bearing debt	¥600.0 bil.	¥554.7 bil.

<sup>\*1</sup> Calculated based on a total payout ratio of approx. 60%



# Shareholder returns

Total payout ratio (excl. impact of inventory valuation)

≥60%

(three-year cumulative)

Dividend

≥¥200 per share

# Financial health

Net D/E ratio

1.0 times

(Net worth ≥¥600.0 bil.)

# Capital efficiency

**ROE** 

≥10%

**ROIC** 

≥6%

### **Profitability**

Ordinary profit (excl. impact of inventory valuation)

≥¥165.0 bil.

(Profit attributable to owners of parent ≥¥60.0 bil.)

# Future investment

Investment in New fields

¥140.0 bil.

(three-year cumulative)

#### DX

Development of core digital personnel

900 people

#### HRX

Engagement index

≥60 points

Human capital investment

¥180,000

/person

#### GX

GHG emission reduction 2030 vs 2013 (incl. Scope 1,2 and reduction contribution)

**-30**%



## **Appendix**

# 7<sup>th</sup> MTMP\_Strengthening of Oil Business competitiveness (Petroleum Refining & Sales)



#### **Present**

#### The Seventh Med-Term Mgmt. Plan period

FY2022 Ordinary profit ¥44.0 bil.

Operating rate

(CD basis)

91%

\*Four-year

average

-2022

FY2025 Ordinary profit ¥**55.0** bil.

#### **Petroleum Refining**

- Realize high uptime/high-efficiency operations

Promote digitization of refineries

\* Introduce VR into facilities and increase maintenance precision, etc.

Further improve operating rate by bolstering operational/maintenance capabilities

\* Establish APM (Asset Performance Management) system, etc.

Shorten planned stoppages (OA improvement)

\* Promote shift to routine maintenance (RM), etc.

Optimize to IT/DX-driven supply chain

\* Increase sophistication of refinery production plan and automate fleeting plan, etc.

Operating rate (CD basis)

94% \*Four-year average -2022

YoY sales of four products 101.1%

#### **Petroleum Sales** - Sophisticate fuel oil sales

Increase sophistication of fuel oil sales through marketing science

Establish SS maintenance/business category conversion model

\* Leverage customer data from full-service and self-service SS and build remote business negotiations model

Efficient digital-driven sales

# 7<sup>th</sup> MTMP\_Strengthening of Oil Business competitiveness (Oil Exploration & Production)



FY2025
Ordinary profit

\$\fomale{90.0}\$ bil.

Crude oil production volume 42kB/D

#### Strengthen profit structure

Maximize Hail Oil Field production volume at an early stage

Maximize production volume at three existing Abu Dhabi oil fields (Improve fluid handling capabilities at Mubarras Oil Field, etc.)

Optimize operational costs (equivalent to approx. -10% per unit)

Crude oil production volume **45**kB/D

### Pursue existing exploration block development potential

Undertake exploration and production in Abu Dhabi Offshore Block 4
Undertake measures to prevent attenuation of production at three existing
Abu Dhabi oil fields (Maintain future production volume, with a focus on the
Mubarras Oil Field, and increase recovery rate)

#### **Explore ways to achieve low carbonization**

Consider conducting CCS/CCUS proof-of-concept testing (partner with Abu Dhabi National Oil Company)

# 7<sup>th</sup> MTMP\_Strengthening of Oil Business Competitiveness (Petrochemical)



_						
Present	The Seventh Med-Term Mgmt. Plan period					
FY2022		FY2025				
Ordinary profit		Ordinary profit				
<b>¥4.0</b> bil.		<b>¥9.0</b> bil.				
	Realize high uptime/high-efficiency operations					
Olefin/ aromatics	Obtain certification as Super Nintei Jigyosha (super accredited operator) (FY2024 planned)  Deepen cooperation between Petroleum Refining and	Olefin/ aromatics				
¥-0.9 bil.	Petrochemical businesses and strengthen competitiveness  *Optimize production plan through refining and petrochemicals and effectively utilize unused fractions	¥2.5 bil.				
	Maximize paraxylene production volume according to market environment Continue to ensure safe and stable operations					
Specialty chemicals	Expand production of chemical products Increase MEK production by converting unused fractions into feedstock Boost production of eco-friendly products, such as those used in cosmetics, etc.	Specialty chemicals				
¥4.9 bil.	Increase production of semiconductor photo resist resins	¥6.5 bil.				
	Increase production of thick film resist resins Boost production of ArF resist resins Secure and develop personnel in line with facility expansion according to increase in demand					

# 7<sup>th</sup> MTMP\_Establishment of Green Electricity Supply Chain Profit Foundation



#### **Present**

#### The Seventh Med-Term Mgmt. Plan period

### Construction of green electricity supply chain

Renewable energy generation capacity 310 MW

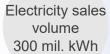
#### Increase renewable energy generation capacity

Acquire offshore wind farms (total capacity 600MW)
Expand onshore wind farms
Consider expanding other renewable energy power sources
(solar power, etc.)



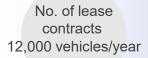
## Install storage batteries and build supply-demand management function

Commence operation of storage batteries at power plants Commence operation of grid-scale storage systems (for market trading)



#### Increase sales of electricity

Grow sales of green electricity
Expand introduction of green electricity-driven EV solutions



#### **Expand Mobility Business with EVs in mind**

Develop vehicle sales (online/corporate) channels Start selling commercial EVs Increase sophistication of marketing science

#### FY2025

## Ordinary profit ¥8.0 bil.

Renewable energy generation capacity

390<sub>mw</sub>

Storage battery function **50mw** 

volume
1.0 bil.

kWh

No. of lease contracts
20,000
Vehicles/
year



#### The Seventh Med-Term Mgmt. Plan period

### Mass produce Japan's first locally-made SAF

#### Produce SAF from waste cooking oil \*1

Start construction of new manufacturing line by end of 2023

Start commercial operations in second half of FY2024 - early FY2025

\*1 Established LLC "SAFFAIRE SKY ENERGY" with JGC Holdings and Revo International in Nov. 2022

FY2025 Ordinary profit ¥1.0 bil.

SAF supply 30,000 KL

#### Produce SAF using Alcohol to JET (ATJ) technology

Completed FS during FY2022

After completing FID in FY2024, aim to start construction from FY2025 and commence commercial operations in FY2027

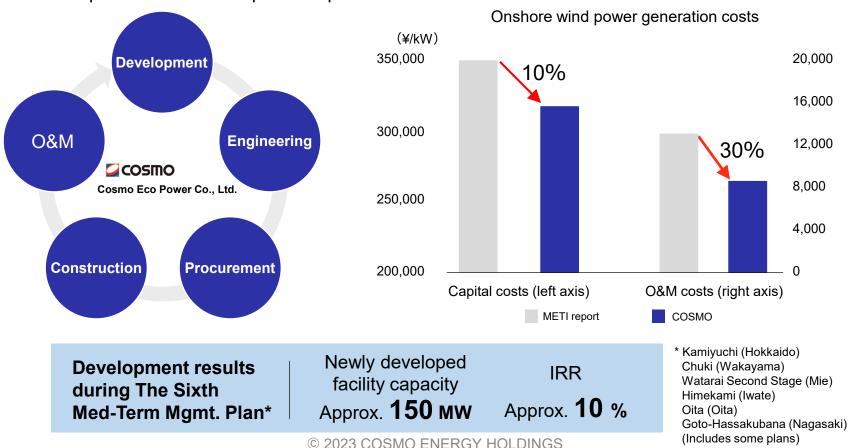
#### Select/develop next-generation energy, considering feasibility and business viability

- Establish hydrogen stations for FCV trucks (planned for FY2024)
- Investigate use of hydrogen production technology that immobilizes carbon from fractions generated at refineries
- Develop olefin production technology through direct decomposition of waste plastics
- Validate ammonia fuel conversion technology in naphtha cracking furnaces, etc.

### 7<sup>th</sup> MTMP\_Cost Competitiveness in Wind Power Generation



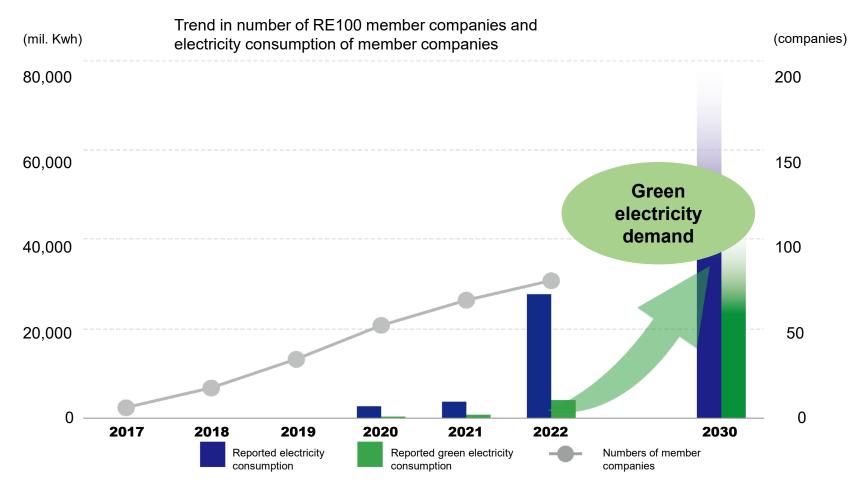
- Specializing in wind power for over **20 years**, Cosmo Eco Power operates under an integrated system that encompasses development through operations and maintenance (O&M).
- Onshore wind power generation sites\* are highly competitive, with an advantage of approx. 10% over the capital costs ¥347,000/kW published by the METI, and approx. 30% over the ¥13,500/kW operation and maintenance costs.
- IRR boasts high profitability of approx. 10%.
- We will leverage the high competitive footing established at onshore wind power generation sites to develop our offshore wind power capabilities.



### **Demand Scale of Green electricity**



- While the number of firms who choose to join the international RE100 initiative is increasing every year, the ratio of green electricity consumed by member companies is significantly low.
- Demand for renewable electricity will increase further as the number of member companies is expected to increase further.



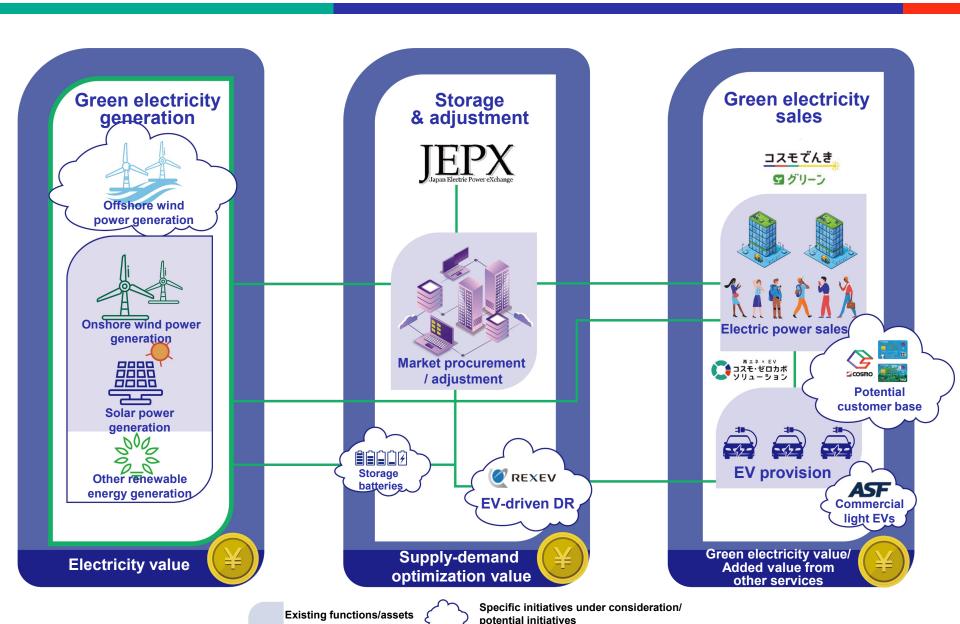
# **COSMO Initiatives and Customer Base in Green Electricity Supply Chain**



Comp	pany/service name	Description	Results (as of Dec. 31, 2022)	
COSMO Cosmo Eco Power Co., Ltd.	Cosmo Eco Power	Wind power generation business	No. of wind turbines: <b>189</b> Capacity: <b>302,000</b> kW Industry share: approx. <b>6</b> %	
□スモ・ゼロカボ ソリューション コスモでんき ☑ グリーン	Cosmo Zero Carbon Solution	Provides solutions centered on renewable energy and EV leasing and sharing, etc.	Cosmo Denki Business Green introduced at approx. <b>1,150</b> facilities	
REXEV	Business alliance with REXEV	Aiming to acquire energy management functions through alliance with energy management developer and designer REXEV	_	
ASF	Capital alliance with ASF	Expanding car leasing and sharing lineup and strengthening renewable energy suppliers through partnership with ASF, which develops, manufactures and sells compact EVs	_	
© MSBILITY PSWER	Partnership agreement with e-Mobility Power	Establishing rapid EV charging infrastructure	Rapid charging equipment installed at <b>20</b> service stations	
⊇cosmo コスモMyカ−リ−ス	Cosmo My Car Lease	Car lease business for individuals	Lease contracts signed for cumulative total of <b>104,541</b> vehicles	
<b>∑</b> COSMO	Carlife Square app	Service app for individuals	<b>5.65</b> mil. app DLs	
COSMO TES CAUD (1) 3584 SATE ALIZA  (1) 3584 SATE ALIZA  (1) 3584 SATE ALIZA  (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Cosmo The Card	Credit card business for individuals	3.97 mil. valid cardholders	
1005 2012 3454 T6890	Cosmo The Card Eco	Credit card business for individuals to support environmental conservation activities	<b>62,000</b> valid cardholders	

### **Green Electricity Supply Chain (Illustrative)**



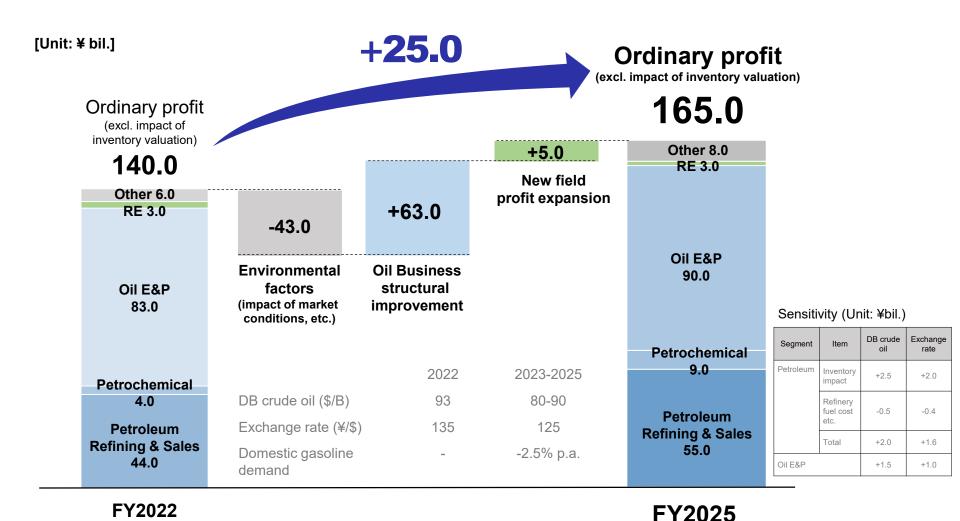


### 7<sup>th</sup> MTMP\_Profit Plan by segment

(expected results)



Secure ordinary profit of ¥165.0 bil., with a focus on structural improvements in Oil Business.



#### **Disclaimer FORWARD-LOOKING STATEMENTS**



Certain statements made and information contained herein constitute "forward-looking information" (within the meaning of applicable Japanese securities legislation). Such statements and information (together, "forward looking statements") relate to future events or the Company's future performance, business prospects or opportunities. Forward-looking statements include, but are not limited to, statements with respect to estimates of reserves and or resources, future production levels, future capital expenditures and their allocation to exploration and development activities, future drilling and other exploration and development activities, ultimate recovery of reserves or resources and dates by which certain areas will be explored, developed or reach expected operating capacity, that are based on forecasts of future results, estimates of amounts not yet determinable and assumptions of management.

All statements other than statements of historical fact may be forward-looking statements. Statements concerning proven and probable reserves and resource estimates may also be deemed to constitute forward-looking statements and reflect conclusions that are based on certain assumptions that the reserves and resources can be economically exploited. Any statements that express or involve discussions with respect to predictions, expectations, beliefs, plans, projections, objectives, assumptions or future events or performance (often, but not always, using words or phrases such as "seek", "anticipate", "plan", "continue", "estimate", "expect, "may", "will", "project", "predict", "potential", "targeting", "intend", "could", "might", "should", "believe" and similar expressions) are not statements of historical fact and may be "forward-looking statements". Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause actual results or events to differ materially from those anticipated in such forward-looking statements.

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.