# The 6th Consolidated Medium-Term Management Plan ~Oil & New 2022 ~

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# **Long-Term Direction of Business**



### Positioning of the 6th Consolidated Medium-Term Management Plan for a Long-Term Increase in Corporate Value

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- Improve the business portfolio for the subsequent growth in view of a long-term direction.
   Strengthen a financial condition by increasing the profitability of the Oil E&P and Petroleum business.



## Long-Term Environmental Awareness

- The transition to a fossil-fuel-free society is accelerating in response to the Paris Agreement.
- Renewable energy will increase although the value of petroleum will remain unchanged by  $\checkmark$ around 2030.

**Paris Agreement** (Set the target of greenhouse gas reduction)

4<sup>th</sup> Industrial revolution (Innovation of IT technology)

### Acceleration of fossil fuel free





Wide-spread use of EV\* \*including PHV (Cosmo's forecast based on forecast by think tank) 80%~ 50% (35%~) (20% out of total car) Risk case 50%~ Ratio of new car 26% 10% METI forecast('16)base 6% 2020 2030 2040



2017

2030

#### Expansion of sharing economy Expansion of renewable energy (Acceleration of wind power generation development)

0

JAPAN







30

2040

Decrease in population

#### (Association of sharing economy)

# COSMO ENERGY HOLDINGS CO., LTD.

Stable growth of petrochemical demand (deficiency despite new plants and revamp)



## Conversion image to long-term business portfolio

- In view of the transition to a fossil-fuel-free society, shift the focus to the renewable energy business through active investment while increasing the competitiveness of petroleum-related businesses.
- ✓ Contribute to the achievement of SDGs through the sustainable growth of the Cosmo Energy Group.



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# The 6th Consolidated Medium-Term Management Plan



# Basic policy $\sim \text{Oil} \& \text{New} \sim$

- "Oil": Increase the profitability of the petroleum business by, for example, complying with the IMO regulations and taking the lead in the supply of clean marine fuels. Strengthen financial condition based on earning power. "New": Invest in wind power generation and other businesses that will lead the next growth stage. ➡Contribute to the achievement of SDGs through business activities. Secure profitability to enable reinvestment Expand growth driver toward the future Firm a system of safe, stable operation in oil Strengthen petrochemical business and increase  $\checkmark$ refining business its product-line Take action ahead of the IMO regulations  $\checkmark$ Early development of offshore wind power ➡Transform to bottomless refineries and increase profitable products.\* Explore new businesses for future growth in \* Aim to raise the competitiveness of refineries that supply only relatively domestic and overseas market(Asia / Abu Dhabi) high added value petroleum products. ✓ Strengthen the "Vehicle life" business ✓ Achieve synergy with petrochemical business Steadily recover the investment in the Hail Oil  $\checkmark$ Field Improve financial condition Strengthen Group management foundation Increase shareholders' equity Implement CSR management.  $\checkmark$ Strengthen cash management • Pursue the sustainability of society and the Group.
- Careful selection of investments with an eye on  $\checkmark$ long-term environment
  - ➡ Early achievement of management goals

- Improve ESG key factors.
- ➡ Develop and implement the medium-term CSR management plan (FY2018 - FY2022).
- Increase productivity through work-style and operational innovation
  - Promote diversity.
  - RPA(Robotic process automation), Thoroughly increased operation efficiency using AI.

Increase earning power and improve the financial positon to achieve a goal of equity capital and DER of 1.0-1.5 times that can withstand changes in the market environment at an early stage.



\* 50% of original amount of Hybrid Load regarded as Equity is counted as Equity by the assessment of Japan Credit Agency, Ltd. (50% of 60 billion yen Hybrid Loan started on 1st April 2015 is included into Equity)

## **Profit Plan**

 ✓ Ordinary income is expected to be 129.0 billion yen in FY2022 despite an increase of 80.0 billion yen from FY2017, taking into account the assumptions such as crude oil prices.



An increase of 80.0 billion yen to be achieved, largely through changes such as increasing profitable products composition in oil refining and sales and production of the Hail Oil Field.

						(Unit:billion yen)
	FY2018	FY2019	FY2020	FY2021	FY2022	Improvement
Impr	Improvement in FY2022 vs 2017(excl. impact of market condition)					<b>80.0+</b> <i>α</i>
Oil Refining and Sales	Safe and stable op Refinery 4 year's o Achieve no heavy production (respo	pperation) ,Synergy fuel oil	ilization rate (Regu creation with petro Start Supply to			42.0
Oil E&P	Stable production in existing and the Hail Oil Fields $\cdot$ OPEX reduction			35.0		
Petrochemical		oetitiveness of I y with refinery	basic petrochen Start C9 petro	nical product , bleum resin bus	iness	1.0 Cash Flow:8.0
Renewable energy			230,000kW <b>→</b> 400	,000kW) (see p Start offshore v site project	• ·	2.0
New area	-	es with MIC, Hy o new busines	yundai Oilbank, s	and CEPSA		$+\alpha$

**%** Cash Flow: Ordinary income + Increase in depreciation

# Carry out growth investment and shareholder returns while considering balance with the financial positon.



\*Strategic investment is net amount reflecting operating lease etc.

### **Investment Plan**

- Strategic investment: Actively use approx. 40% of the total investment for an increase in competitiveness and growth investment.
   Oil refining and sale
   Petrochemicals
   Increase added value of basic products.
   Wind power generation
   Develop offshore wind power sites.
   Discover businesses that will lead the next growth stage.
  - Reduce cash-out using sale and leaseback, etc.



\* Calculated by assuming that Maruzen Petrochemical had become a consolidated subsidiary at the beginning of the 5th medium-term plan.

# Overview of Consolidated Medium-Term CSR Management Plan $\sim$ Contribution to Achievement of SDGs $\sim$

- Develop a medium-term CSR management plan for activities that contribute to the sustainable development of both society and the Cosmo Energy Group. Promote activities based on the perspective of ESG throughout the supply chains, including  $\checkmark$ group companies and business partners. Promoting environmental 13 IENTE 14 HERKANIK 15 VELOVE Enhancing human rights & 5 Base Epicary social contribution measures measures Reduction of greenhouse gas emissions  $\checkmark$ **Occupational safety & health** [2030 targets] Diversity  $\checkmark$ CO2 emissions Down26% [from FY2013] (Down 2 million tons) Human resources development  $\checkmark$ [2022 targets] Customer satisfaction CO2 emissions Down16% [from FY2013] (Down 1.2 million tons) ➡Improve service level **Reduction of pollutants** ➡Enhancing Eco Card Fund initiatives  $\checkmark$ **Resource circulation** 5 Ignur ©
  8 Ignur Strengthening corporate 16 HEEE ANTIDE ANTISTERIE INTERNATION C **Ensuring safety measures** governance structure Thorough implementation of risk  $\checkmark$ Safe operations and stable supply  $\checkmark$ management and compliance system Preventing work-related accidents, **Development of CSR procurement policy Preventing major accidents Responses to ESG evaluation**  $\checkmark$ Improvement of quality assurance system  $\checkmark$ (improvement of information disclosure)
  - ➡ Improve ESG ratings

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-Oil Refining Business	
-Petroleum Sale and Vehicle life Business	
-Petrochemical Business	
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-Renewable Energy Business

## **Review of the 5th Medium-Term Management Plan**



Steadily achieved growth through the recovery of the oil refining business and large investments while utilizing the alliance strategy.



# Changes in Ordinary Income Excluding the Impact of Inventory During Each Medium-Term Plan Period

 Expect a further increase in profitability, particularly in the oil refining and sales business.



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# **Business Strategy**



## **Business Strategy: Oil Exploration and Production Business**

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### Long-term business strategy based on strengths

- Strong relationships of trust built through  $\checkmark$ stable production for around 50 years at the Abu Dhabi offshore oil field.
- $\checkmark$ In-house operation (operatorship)
  - Seek added value projects utilizing the Company's strengths.



Policies and measures in the 6th medium-term plan

- Continue full production at the Hail Oil Field.
- ✓ Reduce operation cost (at least 30%) per unit).
- $\checkmark$  Examine new investments for the next phase.

Value of improvement in FY2022 (from FY2017) 35.0 billion yen

※1) ADOC: Abu Dhabi Oil Company, UPD: United Petroleum Development, QPD: Qatar Petroleum Development ※2) Production of three development companies per year (monthly average of 1-12 each year) 3) Crude oil prices (Platt's Dubai crude) average monthly

\*4) The production volume of three development companies in fiscal 2017 is planned value

## **Business Strategy: Oil Refining Business**

### Long-term environmental awareness and business strategy

### **Environmental awareness**

- ✓ A certain level of demand for petroleum products remains, despite a decline due to the increased use of EVs by consumers.
- $\checkmark$  Initiatives using IoT are increasingly active.

### **Business strategy**

- ✓ Shift from fuel oil to petrochemical materials.
- ✓ Promote IT conversion of refineries

### Policies in the 6th medium-term plan

- Increase profitable products by increasing delayed coker unit capacity promoted by the IMO regulations and maintain high capacity utilization to establish refinery competitiveness exceeding the global standard.
- Grow the recipients of products and use alliances with other companies to increase competitiveness.
- Create synergy with the petrochemical business.

### Measures in the 6th medium-term plan

(billion yen)

_			(Dimon yen)
	Act	ivity Measures	Value of Improvement
1.	Increase degradation capacity, etc.	Increase delayed coker unit capacity at Sakai Refinery, etc. Use of Chiba Refinery pipeline ➡Focus on profitable products	24.0
2.	Increase capacity utilization	Reduce unplanned suspensions Reduce regular maintenance periods at refineries	6.0
3.	Achieve synergy with the petrochemical business.	Use of unused distillates ➡Increase business opportunities	3.0
4.	Cost reduction	Energy-efficient operation of facilities Strategic purchasing, rationalized distribution	6.0

Value of improvement in FY2022 (from FY2017) **39.0 billion yen** 

# Redevelopment of Measures to Increase the Competitiveness of Chiba Refinery

 Continue the operation of two CDUs at Chiba Refinery, taking into account the environmental changes such as the IMO regulations, and implement integration with Maruzen Petrochemical to improve profitability.

### Increase the competitiveness of Chiba Refinery

- Continue the operation of two CDUs at Chiba (177,000 BD) after the completion of the pipeline to maximize the use of the pipeline (from mid-2018).
- Use direct desulfurization equipment to meet increasing demand for marine fuels (low-sulfur C fuel oil) in response to the IMO regulations and enjoy maximized benefits.
- Integrate business with Maruzen Petrochemical.

### Response to the Sophisticated Methods of

### **Energy Supply Structures**

- First announcement: disposal of No.5 CDU at Yokkaichi Refinery (Before change): disposal of No.1 CDU at Chiba Refinery
- Second announcement: reduction of CDU capacity (Before change): disposal of No.5 CDU at Yokkaichi Refinery

### Overview of Keiyo Seisei JV G.K. (joint venture)

- Established: January 2015
- Capital contribution ratio: 50% each from the two companies
- Type of business: maximum use of pipelines

### Overview of pipelines

- Completion of pipelines: February 2018
- Installation of nine pipelines (mutual adaptability between products and semi-finished products)

### An example of Synergy



- %1 Fluid Catalytic Cracking (FCC) is an equipment to convert heavy oil to LPG, gasoline, diesel oil etc.
- %2 Residue Fluid Catalytic Cracking (RFCC) is an equipment to convert extra heavy oil to LPG, gasoline, diesel oil etc.

## Business Strategy: Petroleum Products Sale and "Vehicle life" Business

Increase online sales in

the "Vehicle life"

Business

### Long-term business strategy

- Acquire business areas based on a business model reform corresponding to a shift to EVs and changes in consumers' use of automobiles.
- Acquire total competitiveness together with oil refining business

### Policies in the 6th medium-term plan

 Determine new business models that take the long-term business environment into consideration while seeking the growth of the "Vehicle life" Business

[Activity policy]

Study and consider

participation in EV-related

and mobility services

### Measures in the 6th medium-term plan

- Increase sales of lease and car care products.
  - Collaborate with other companies in other industries to achieve total support (from obtaining a driver's license to the sale of a car) for car owners.
  - Develop new products and provide services to meet customer demand.
  - ➡Increase online sales.

Grow the "Vehicle life" Business Value of improvement in FY2022 (from FY2017) **3.0 billion yen** 

### Long-term environmental awareness and business strategy

### **Environmental awareness**

- International markets are growing based on an increase in the global population.
- Supply is increasing due to the construction of new highly competitive ethane crackers in North America and Naphtha crackers in China.
- A production shift from oil refining is possible.

### **Business strategy**

- Maximize the use of the competitive advantage in ethylene and Paraxylene production.
- Shift from petroleum fuel oil to petrochemical materials.

### Policies in the 6th medium-term plan

- Enjoy and improve the synergy of oil refining and petrochemicals (exploitation of unused distillates, etc.).
- Increase the competitiveness of basic products and grow a new business of functional products that are not vulnerable to environmental changes.

### Measures in the 6th medium-term plan

Improve profitability in the functional product area.

➡ Start hydrogenated petroleum resin business with Arakawa Chemical Industries.

Investment in increasing competitiveness for the future

- ⇒Increase the added value of basic chemical products.
- Increase and add new capabilities of functional products.



\*Cash Flow: Ordinary income + Increase in depreciation

### Long-term environmental awareness

- ✓ The Ministry of Economy, Trade and Industry plans to triple Japan's dependence on wind power by 2030.
- ✓ Japan must reduce CO2 emissions by 26% by 2030 to comply with the Paris Agreement.
- ✓ Land suited for the development of wind power plants will become full in the future.
- ✓ Offshore sites offer greater availability of wind power resources than onshore sites.
- ✓ Laws are being developed for offshore wind power generation.

### Long-term business strategy

- ✓ Launch the offshore wind power business around FY2021.
  - Full-scale contribution to profit is expected to occur after the period of the 6th medium-term plan.

#### Trend of wind power generation capacity of Cosmo Energy Group



### Business Strategy: Renewable Energy (6th Medium-Term Plan) 25

### Policies in the 6th medium-term plan

#### Onshore

- Steadily implement development projects that can secure the FIT unit price of 22 yen/kWh and aim to reach 500,000 kW at an early stage.
- Seek projects that contribute to new development.

### Offshore

- As the land for power plant development is increasingly filled, use O&M\* skills, the company's conventional strengths, and enter the offshore wind power at an early stage. (\* operation and maintenance)
  - ➡ Invest in this business to make it the foundation for the next growth stage.

Measures in the 6th medium-term plan

- ✓ Reach a 500,000 kW at an early stage.
  - Development of Himekami (18,000 kW) in Iwate Prefecture, Watarai 2th phase (22,000 kW) in Mie prefecture, etc.
  - Expect to achieve power generation capacity of 400,000 kW at the end of FY2022
- Development of a business plan, environmental assessment, construction, etc. to launch the operation of an offshore wind power plants.

Value of improvement in FY2022 (from FY2017) **2.0 billion yen** 

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