

# **ENEOS** Vision and Strategy for the Future in the Japan Oil Industry

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ENEOS Group Japan's Premier Energy and Materials Corporate Group

- 1. Overview of Oil industry in Japan
- 2. 2040 Vision of ENEOS Group
- 3. Business Strategy for the Future

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# 1-1 Global Oil Demand (w/ Impact of the COVID-19)

- Declining in demand for Fuel Oil due to COVID-19; almost equal to FY 2000 (worse than the Global Recession).
- Expecting the recovery in Fuel Oil demand; in FY 2023 at the earliest; to the level of FY 2019 – prior to COVID 19
- Global Oil demand after FY 2024 is expected to gradually increase despite 3% less than the level of FY 2019 by economic stagnation and "new normal" life style. However, ···



# **1-2 Petro-Products Demand in Japan**

- 2000 to 2020 actual: 38% decline due to shrinking demand for heavy oil for power plant and industrial fuel
- 2020 to 2040 forecast: about 40% decline due to shrinking demand for gasoline by advancing energy efficiency

Record & Forecast: Petro Products Demand in Japan



Unit: MMKL

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# **1-3 Refineries in Japan**

36 refineries, 5.3 million B/D in 2000

21 refineries, 3.5 million B/D in 2020





# 1-4 History of the Japanese Oil Industry

### Consolidated into 3 major companies by several times of merger



# **2-1 Business Environment Awareness**

# Decline in domestic oil demand will accelerate

- Response to global warming, low-carbon society
- Government carbon neutral policy



### Considering the future of refineries and gas stations

# Refinery

- Shift to petrochemicals and derivatives
- Digital transformation
  - Asset management w/ digital twin
  - AI optimized & automated operation
  - Overall SCM optimization

# Gas station

- Clean energy supply
- Local community hub

# **2-2 Overview of Our Future Businesses to 2040**

- Growing business: Shift to value-added petrochemicals, next-generation energy supply
- Fundamental business: Stable supply of energy and optimization of value chain



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# **3-1 Business Strategy** (1.1) Future vision of digitalization

ENEOS promote the introduction of digital technologies in our refineries for safe/stable and efficient operation; in order to enhance our business competitiveness.



# **3-2 Business Strategy** (1.2) Digitalization roadmap

ENEOS proceed the digitization based on the following road map.



# **3-3 Business Strategy** (2) Add high value to petroleum

Increase competitiveness and profitability by promoting chemical refineries and entry into the derivative business



Refineries will maintain the supply capacity according to the demand structure. In addition, to strengthen the competitiveness of refineries, we promote the shift to chemical refineries.

- > To strengthen cooperation with neighboring chemical companies
- > To develop the derivatives areas, without limiting basic petrochemical products
- > To utilize refineries to recycle petrochemicals from plastic wastes

Vision

# **3-4 Business Strategy** (3.1) Next-generation Energy Supply





Gas station will transform into next-generation energy supply bases by utilizing the network that is deployed all over the country.

- To use as a source of household power and EV power from solar power and storage batteries, and as H<sub>2</sub> stations
- To provide a comprehensive energy platform service through integrated utilization of distributed power sources (VPP)

# **3-5 Business Strategy** (3.2) Clean Energy Resources

#### **Renewable Energy**

Effective use of idle lands in refineries

- Solar power
- Wind-power
- Biomass power station





### Supply clean energy as next-generation energy

- To deploy renewable energy business (Solar, Onshore/Offshore wind-power, biomass)
- > To build a  $CO_2$ -free hydrogen supply chain (incl. overseas, green/blue-hydrogen)

# Conclusion

ENEOS, an energy company representing Japan,

- will maintain a stable supply of petroleum products with digital technologies, while shift to supply of new environment-friendly energy due to the decrease in petro-products demand, and,
- 2. will convert to the business structure in a timely manner; in response to stable supply of the energy-needed in the world toward the future.

# Thank you for your attention !





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