

Idemitsu's challenge in global energy market

January 28, 2016

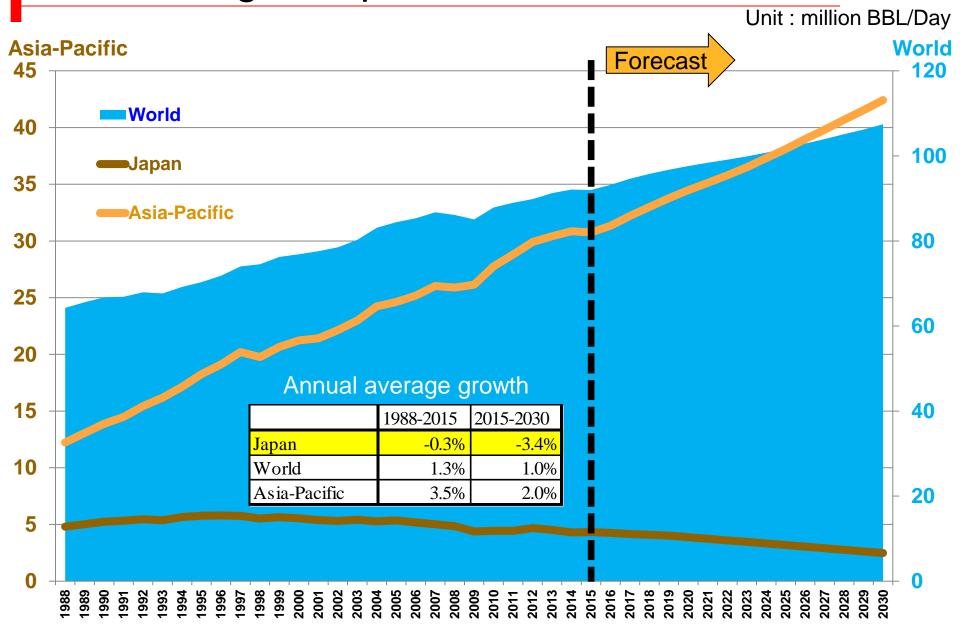
Takashi Matsushita Managing Director Idemitsu Kosan Co.,Ltd.



- The environment surrounding the Japanese oil industry
- The action of Japanese oil industry
- Idemitsu's domestic and international activity
- Closing remark

Trend of global petroleum demand

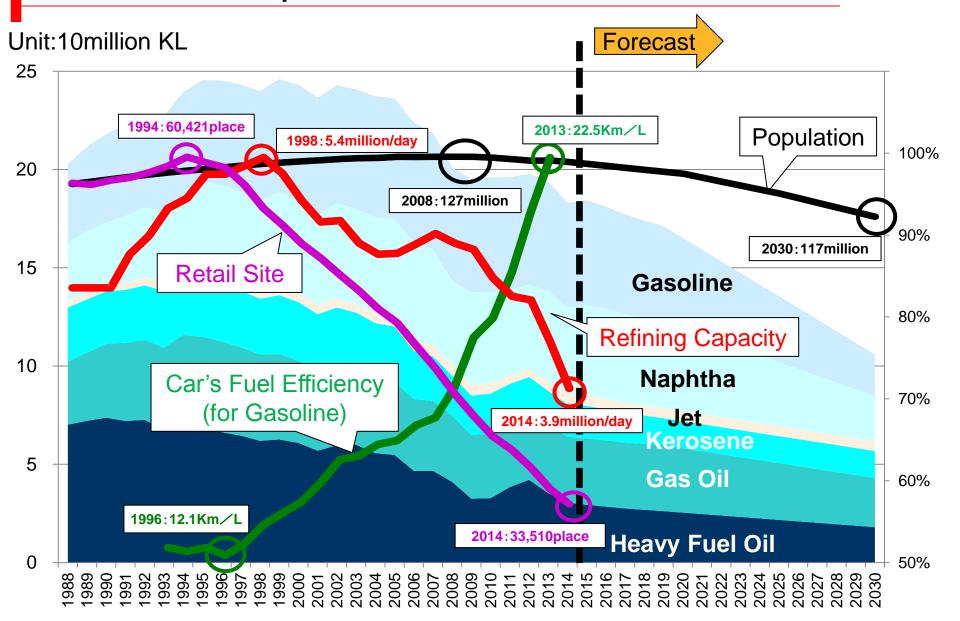




Source : EIA, METI data

Trend of Japanese Petroleum Demand



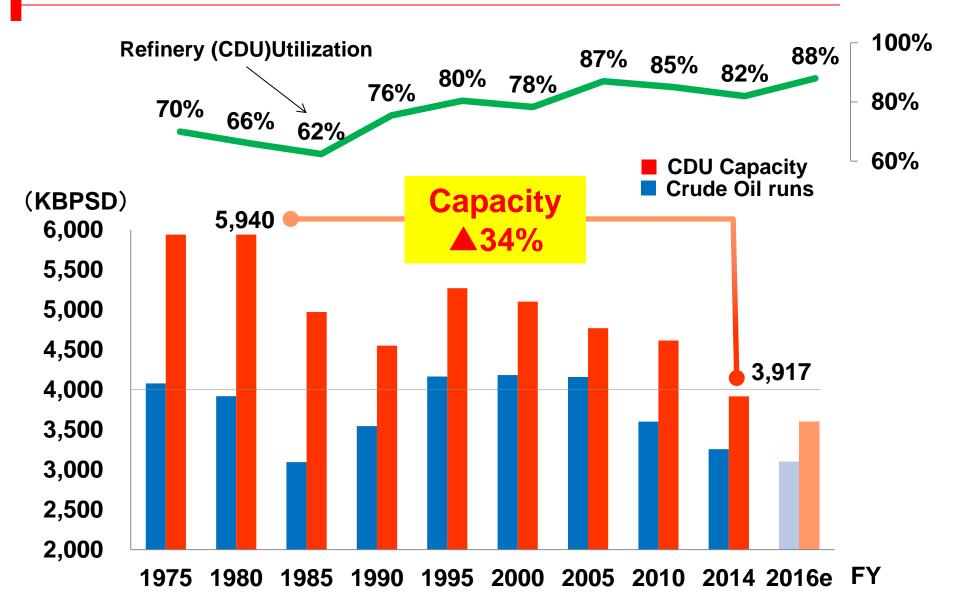




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Rationalization of refining capacity in Japan

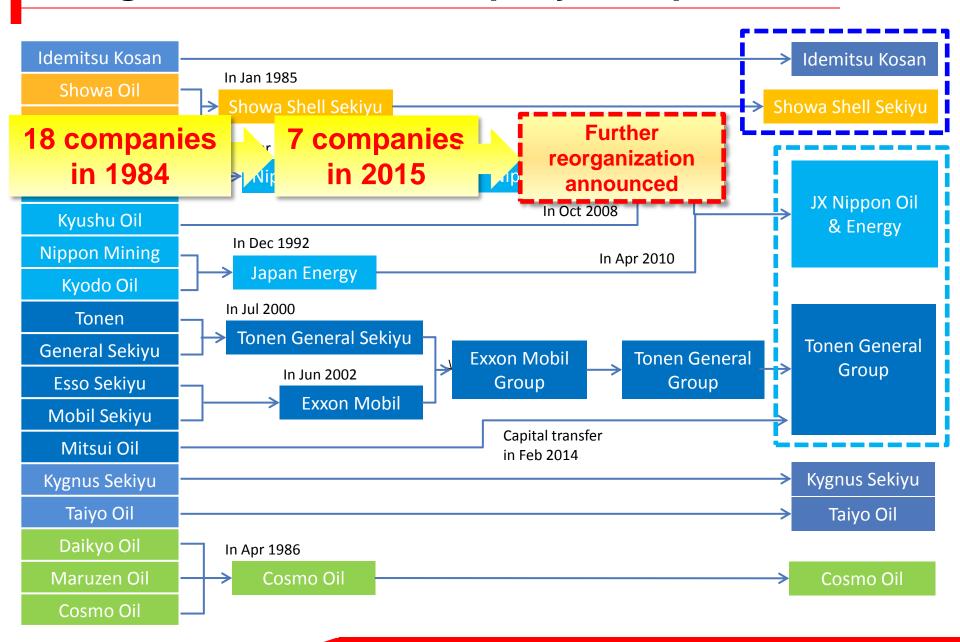




Date Source: IEE Japan, Report "Mizuho Industry Focus Vol176"

Reorganization of oil company in Japan







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Strengthen domestic production platform



■Rationalization of refineries/petrochemical plant

- √ 3 refineries and 2 petrochemical plants
- ✓ Reduce surplus capacity and maximize utilization

Hokkaido refinery





High conversion refinery

Chiba refinery and petrochemical plant



Integrated complex

Tokuyama complex



Olefin center

■ Add the value to products

- √ Fully utilize resources
- ✓ Enhance energy saving



■ Secure safe and stable operation

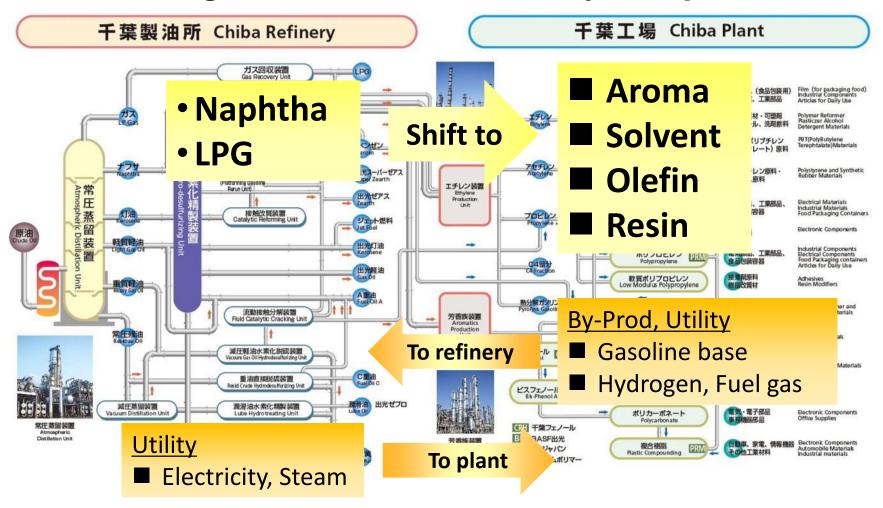
✓ Promote an effective staff training



Fully utilize resources by integrated operation



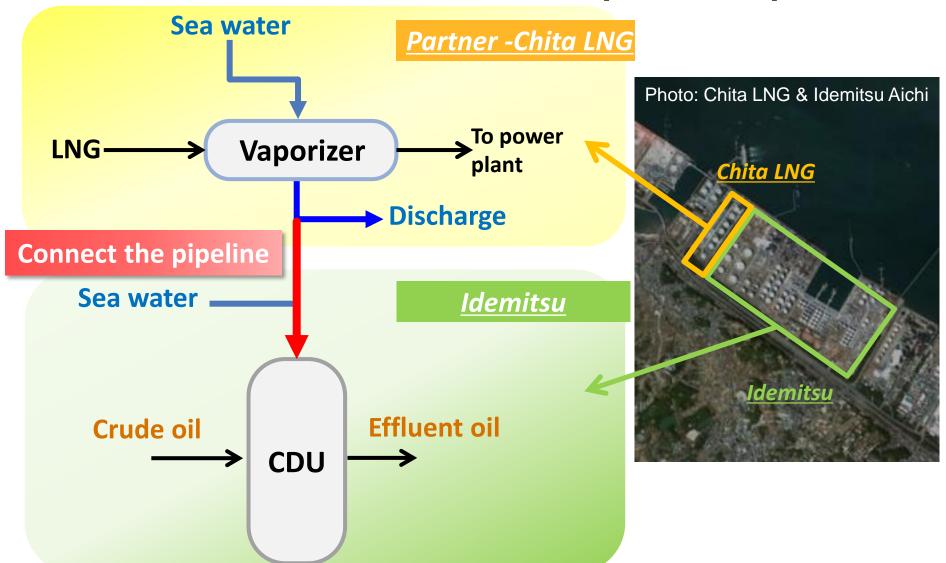
From fuel to chemical; Integration of Chiba refinery and plant



Enhance energy saving by integration with partner



Utilize waste cold sea water of partner's plant



Effective staff training in training plant



Idemitsu training plant

- Modified from diesel HDS to training plant.
- Realize various operating condition by Dynamic simulator.

(6,300 Idemitsu's operators have had a training.)



Training plant



(Dynamic simulator)



Communication



<u>Site</u>

Control room

Trainee from overseas

⇒ Middle East : 800 people / Asia : 900 people

Strengthen the stability of domestic supply network



- Strengthen the sales network
 - •Retail site: around 4,000
- Optimization of logistics
 - Private coaster: 52
 - •Tank lorry: around 1,400
- Emergency logistics system



Sales office : 17

=Oil terminal : 18

- Idemitsu's supply network cover all over the country.
- Securing stable supply including times of natural disaster.

Idemitsu's Renewable Energy Business











Wind Power



Geothermal Power







=Geothermal Power

Idemitsu's international activities





Idemitsu is expanding the business in the growing market.

Expanding functional materials businesses



Idemitsu's unique products through the development of new technologies

Lubricants

High-performance, environmentally friendly products.







XAREC SPS(Syndiotactic Polystrene)

XAREC boasts remarkable heat and chemical resistance, as SPS in many fields





OLED materials

Excellent color reproduction capability and high-speed response to moving images.







Agri-Bio

Environmentally friendly microbial products to prevent crop disease.





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Closing Remark: Our Vision



- Stabilizing and strengthening our business foundation in Japan
- Expanding global petroleum business and supporting Japan's energy security
- Promoting global growth strategies in the functional material businesses