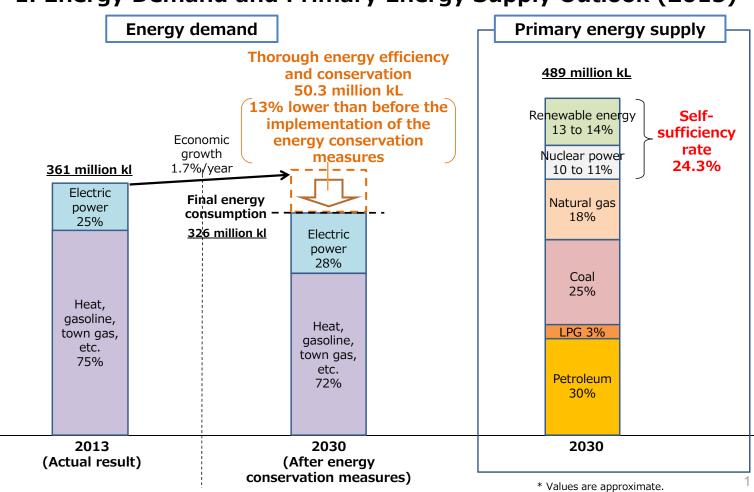


Japan's Energy Policy

2nd November, 2016

Ministry of Economy, Trade and Industry,
Japan

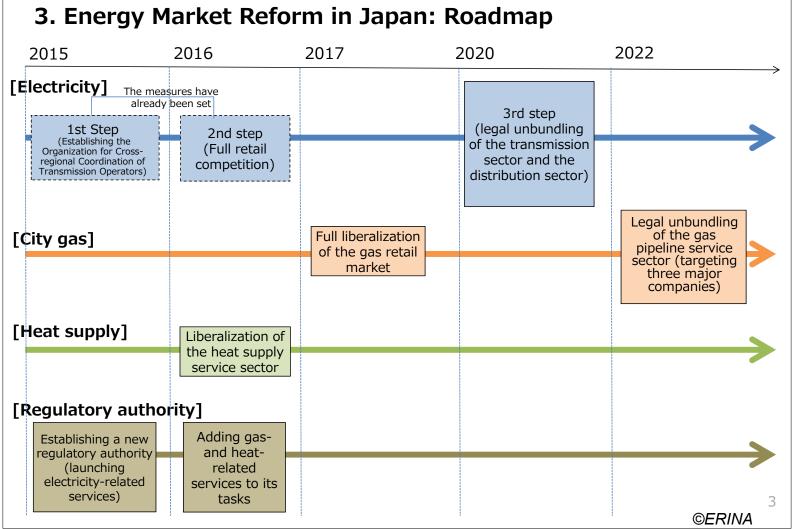




©*ERINA*

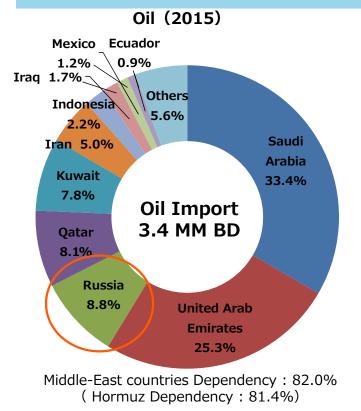
2. Ratio of Each Energy Source in Primary Energy Supply

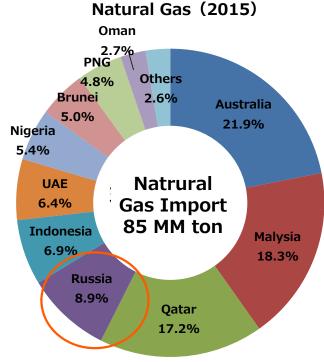
		1970	2010	2012	2030
	Fossil Fuel	92%	82%	92%	76%
	Others	8%	18%	8%	24%
		1970	2010	2012	2030
	Oil	70%	40%	44%	33%
	Coal	21%	23%	23%	25%
	Natural Gas	1%	19%	25%	18%
		1970	2010	2012	2030
	LNG	1 million ton	71 million ton	90 million ton	62 million ton



4. Japan's Oil and Gas Import (2015)

- Japan depends on import from overseas almost of its oil and gas demand.
- Middle-East countries dependency is 82% on oil and 27% on natural gas.





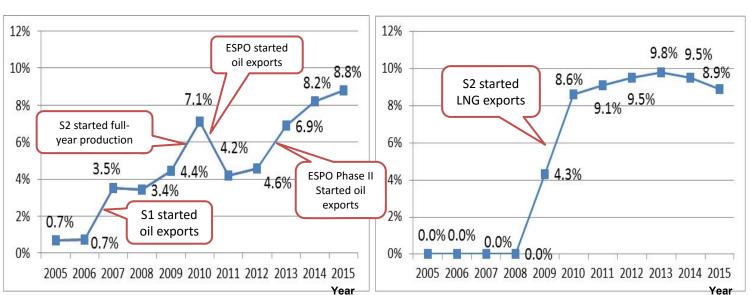
Middle-East countries Dependency: 26.5% (Hormuz Dependency: 23.6%) (Resource) Trade Statistics, Ministry of Finance

5. Increased importance of Oil & LNG import from Russia

- In addition to oil imports from Sakhalin I (2005) and Sakhalin II (1999), the construction of ESPO (2009, 2012) has led to the increase of oil imports from Russia. Currently, Japan imports 8% of its oil from Russia.
- Japan imports 10% of its LNG from Sakhalin II, which started LNG exports to Japan from March 2009.

Russian shares in Japan's total oil imports

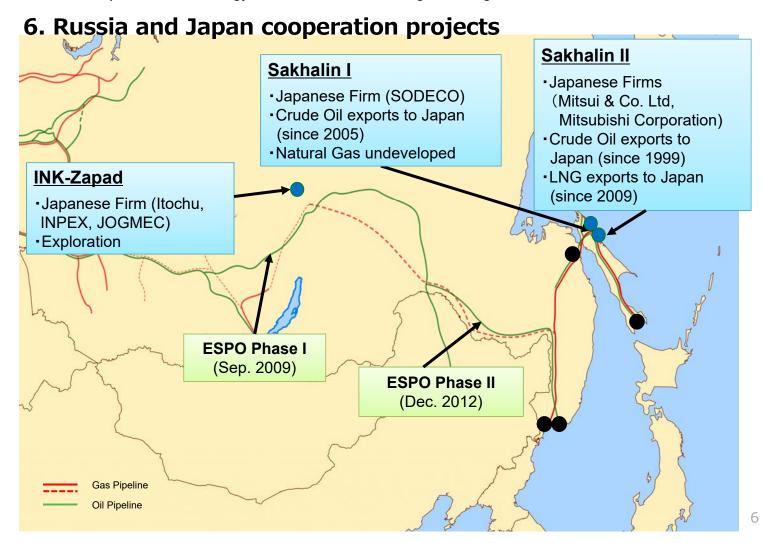
Russian shares in Japan's total LNG imports



Source: Natural Resources and Energy Statistics

Source: MOF Trade Statistics ©ERINA

5



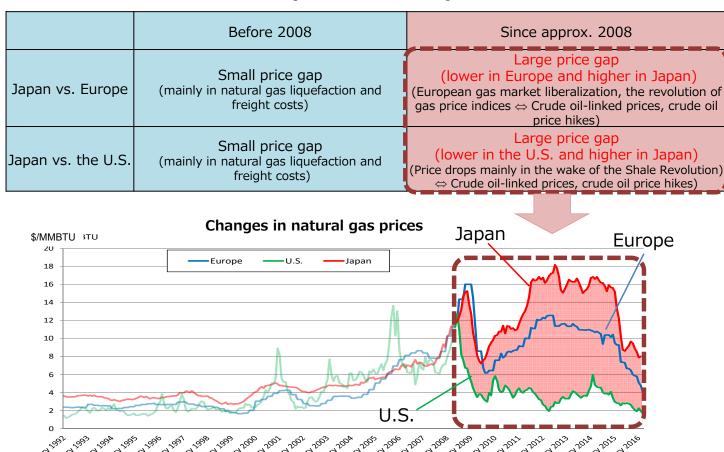
7. Eight-Point Cooperation Plan

- Prime Minister Abe introduced steps to materialize the eight-point cooperation plan presented at the Summit Meeting in Sochi on May.
- (1) Extending healthy life expectancies
- (2) Developing comfortable and clean cities easy to reside and live in
- (3) Fundamentally expanding exchange and cooperation among SMEs

(4) Energy

- (5) Promoting industrial diversification and enhancing productivity in Russia
- (6) Developing industries and export bases in the Far East
- (7) Cooperation on cutting-edge technologies
- (8) Fundamentally expanding people-to-people

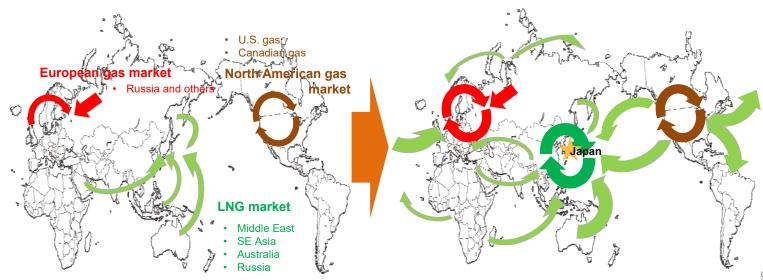
8. Trends in LNG Price Gap between Japan and the West



9. Integration of Asian, North American, and European Gas Markets

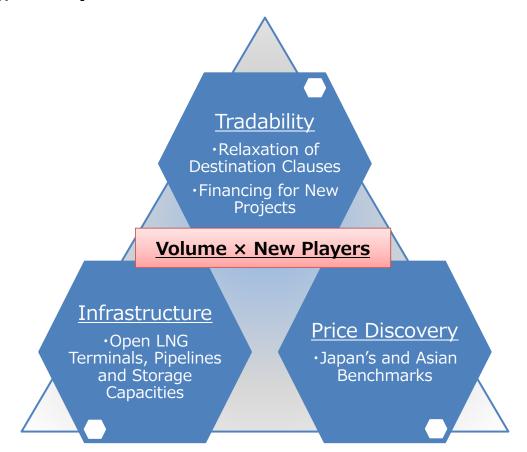
Source: trade statistics, IMF Primary Commodity Prices, Japan: JLC, the U.S.: Natural Gas spot price at the Henry Hub, Europe: Russian Natural gas border price in Germany

- > The global natural gas market have been isolated from each other.
- ➤ The Asian, European, and North American LNG markets will become multi-directional.
- > This position would give Japan the best opportunity to serve as a LNG hub and contribute to world LNG market development.



©ERINA

10. Three Pillars of the "LNG Market Development Strategy" (May, 2016)



10