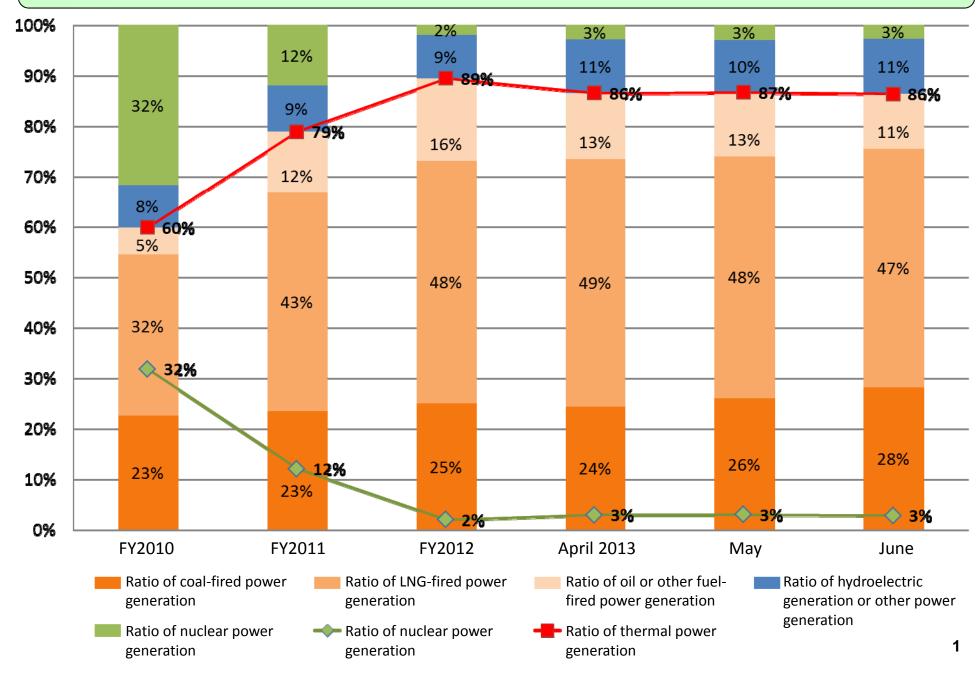
# System Reform Measures toward low-cost LNG Procurement

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# Changes in the mix of electric power generation sources by electric suppliers\*

\*general electric utilities and wholesale power producers



# Strategy for stable and low-cost LNG procurement

# 1. Strengthening the government's support for low-cost LNG procurement

## (1) Realization of LNG import from the United States

→ Expectation for additional permission of LNG export to Japan, following export projects in Freeport and Lake Charles

## (2) Promoting competition between suppliers through the diversification of supply sources

→ Support Japanese companies participating in project developments in Russia, the United States, Canada, Mozambique, etc., in order to diversify supply sources and promote competition between LNG sellers.

### (3) Strengthening government's support for projects that would contribute to lowering LNG import prices

→ Enhance support programs for projects which are expected to help reduce LNG import prices far below he Japan LNG Cocktail (JLC).

#### (4) Strengthening of partnerships between LNG consuming countries

→ Strengthen partnerships with LNG consuming countries and regions including South Korea, India, EU, etc. and raise bargaining power over LNG supplying countries.

## 2. Promotion of national system reform

#### (1) Promotion of electricity system reform

→ Encourage efforts for the reduction of fuel procurement costs through competition between electric utilities.

#### (2) Implementation of strict electricity rate review

→ Carry out electricity rate review in consideration of LNG procurement prices which are determined based on cost saving efforts made in the future by electric utilities, and curb an increase in electricity rates. We continue electricity rate review in a strict manner.

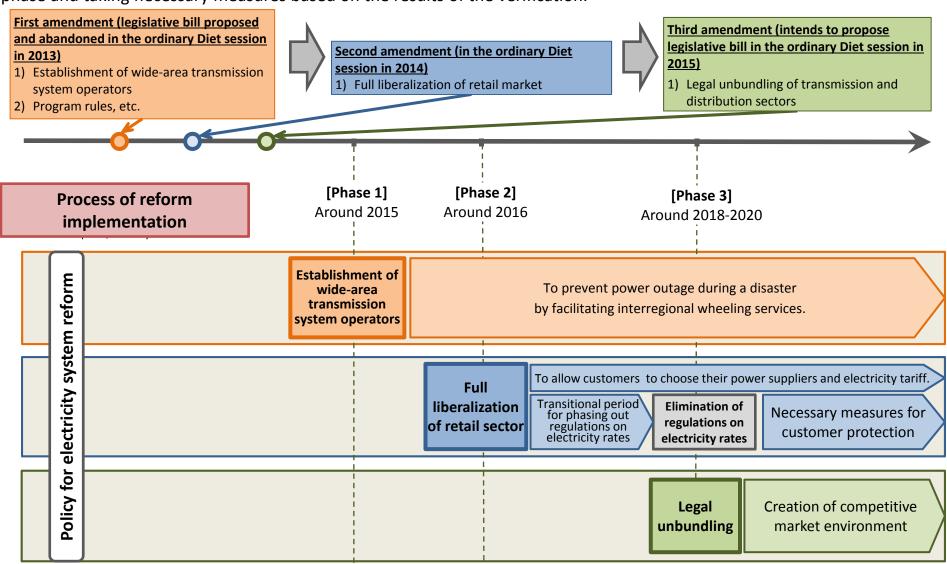
#### 3. Reinforcement of positions in negotiation through increased options for energy procurement

→ Coal-fired power generation will keep an important position as an option in negotiations with other countries for low-cost LNG procurement. We will consider to resume operations of nuclear power plants if their safety is confirmed by the Nuclear Regulation Authority and strive to diffuse energy conservation on a larger scale. 2

# 1. Electricity system reform

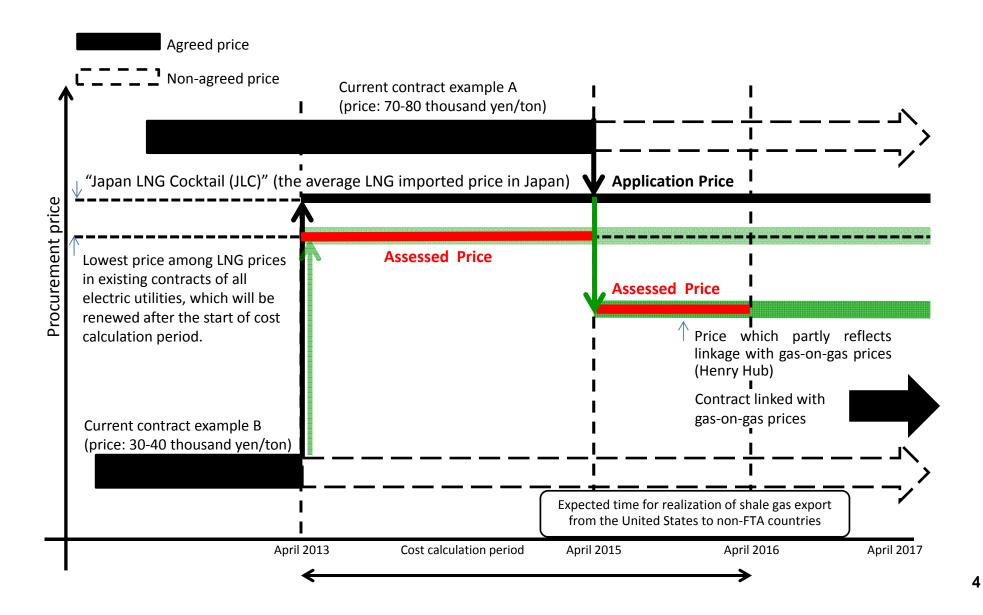
#### **Process of law amendment**

Law amendment will be undertaken in three phases, while carrying out sufficient verification for solving problems in each phase and taking necessary measures based on the results of the verification.



# 2. Strict electricity rate assessment

When reviewing electricity rate for long-term LNG procurement, fuel cost should be calculated in the following way; FY2013 and FY2014: the lowest price for LNG procurement among all electric utilities FY2015: a cost-plus price that partly reflects linkage with natural gas prices (namely, Henry Hub price)



# 3. Reinforcement of support for projects that would contribute to lowering LNG import prices

- O Expand support for providing risk money required for natural gas liquefaction projects or acquisition of shale gas interests in North America ([investment for industrial development and trade promotion] FY2013 budget: 51 billion yen (40 billion yen), FY2012 supplementary budget: 22 billion yen).
- O Also, reinforce supporting measures for LNG development projects which are expected to help reduce LNG import prices for the whole of Japan substantially below Japan's average import price.
- O Moreover, begin to consider the most appropriate form of joint procurement.

#### Establishment of support programs for projects which are expected to help reduce LNG import prices

<Reinforcement of support programs provided by Japan Oil, Gas and Metals National Corporation (JOGMEC)>

- (1) Creation of loan guarantee program of "one trillion yen" preferentially for LNG import projects
  - JOGMEC will create a loan guarantee program of one trillion yen preferentially for projects which are designed to reduce LNG import prices.
- (2) Raising of loan guarantee limit
  - JOGMEC will raise the current limit of loan guarantee coverage for projects which are designed to reduce LNG import prices from 50% (normal value) to 70%.

[Effect in case that a company finances about 200 billion yen required for a project through bank loan]

The company can reduce its guaranteed borrowings from about 100 billion yen to 50 billion yen, and the remaining 50 billion yen under its guarantee can be allocated to other development projects.

(3) Decrease of exposure fee percentage

Decrease exposure fee percentage for projects which are designed to reduce LNG import prices (about 0.1% reduction \* reference value is 0.8%).

[Effect in case that a company finances about 200 billion yen required for a project through bank loan]

The company can improve its cash flow by about one billion yen for normal loan guarantee period (about ten years).

- < Reinforcement of support programs provided by Nippon Export and Investment Insurance (NEXI)>
- O Risk coverage in case that a permission of LNG export to Japan is cancelled.

  In case that Japanese electric power companies or gas companies join natural gas or shale gas development projects, NEXI will cover any risks associated with the projects through foreign investment insurance.
- < Reinforcement of support programs provide by Japan Bank for International Cooperation (JBIC)>
- O Give preferential support conditions through fiscal investment and loan, foreign currency reserves, etc.

JBIC will give preferential support conditions to projects which are designed to develop shale gas in North America or acquire resources including LNG and others through fiscal investment and loan, foreign currency reserves, etc. in the JBIC's Loan Facility Enhancing Global Business Development established in April this year.

- <Consideration of new joint procurement>
- O Begin to consider the most appropriate form of joint procurement to enhance our price negotiation strength.