# **Efforts to Establish LNG Futures Market**

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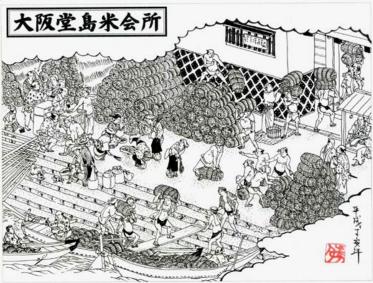
November 6, 2014



### **Futures Trade – History and Functions**

- The first Futures Exchange was established in Dojima, Japan for Rice about 300 years ago
  - The Dojima Rice Exchange already had the function of (1) Price benchmark and (2) Risk hedge.
  - In the Edo period, price information was distributed across the country at high speed.

Osaka→Kyoto (Approx. 40km) ------- 4 minutes by flag signaling Osaka→Hiroshima (Approx. 350km) -- 40 minutes by flag signaling Osaka→Edo (Approx. 550km) --8 hours by flag signaling and messengers (in Hakone mountain area)

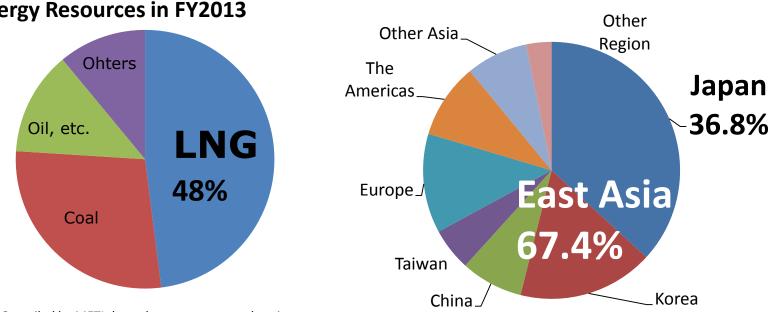


- Edo government well recognized those functions and authorized the Exchange for rice, which was the important element of the economy in the Edo period.
- Inheriting the long tradition, commodities are traded on the Tokyo Commodity Exchange (TOCOM) today

### East Asia As The Center of LNG Demand

# LNG of today is important as was rice of the Edo period

- > LNG is a major source of power generation
- East Asia accounts for by far the largest demand of LNG
  - More demand is expected in Asia while new supply will be offered by the Shale gas revolution and new LNG projects in Asia Pacific
  - Landscape of LNG trade will be changed worldwide



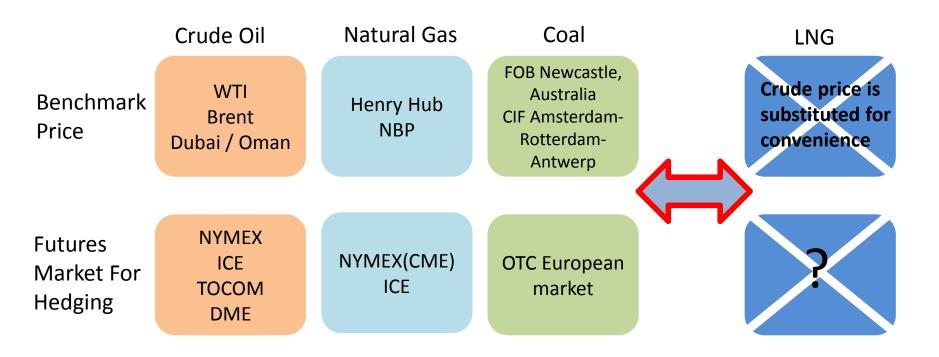
Japan's Domestic Power Generation by Energy Resources in FY2013

Source: Compiled by METI through power company hearing etc.

LNG Imports by Region in 2013

**Benchmark Price and Futures Market for Energy** 

- "Benchmark price" and "futures market to hedge the risk" remain essential in today's trading
- Both benchmark price and futures market have been established for major energy resources, but not for LNG



### **METI's LNG Statistics**

# > METI's official statistics started in April 2014

- Transparent benchmark price for LNG is missing
- Japan is the largest importer of LNG
- The amount of spot trading has been increasing and will increase



# METI started to publish spot LNG trading price data as a basis of LNG benchmark price

Statistical Information:

Averaged contracted price collected from all the major end-consumers of spot LNGs (approximately 15 companies in Japan)

#### **METI's Statistics**

Objective price information of contracted spot transaction collected from all the major Japanese electricity and gas firms, computed by a clear and open methodology, and publicized

## New LNG OTC Market – Japan OTC Exchange

- Japan OTC Exchange (JOE) established a LNG OTC market in Sep 2014
  - JOE is a joint venture company of TOCOM
  - Participated by approx. 20 companies including all the major Japanese utility firms, trading firms (Japanese Shosha) and an international oil trading firm
  - Actively invite variety of international buyers and sellers



Exchange-based LNG futures are aimed to be launched in the near future

#### Prime Minister Abe's Third Arrow (June 2014)

"the Government will...actively endeavor to ensure that the listing of ... LNG futures proceeds smoothly."