

25th world gas conference "Gas: Sustaining Future Global Growth"

# **Opportunities and Challenges of LNG Market in Asia**

Shigeru MURAKI Executive Vice President TOKYO GAS Co., Ltd. June 6, 2012





Patron

Host

Gas

ASSOCIATION

Host Sponsor





## LNG Demand and Supply Perspective in Asia



 High Demand : Sustainable growth in China and India, New demand in South East Asia
 Low Demand : High fuel cost, Economic Stagnation, Competition with pipeline gas, indigenous conventional and unconventional gases

• Japan 80-90 MTPA : Shift from Nuclear to Natural Gas, Enhanced Energy Conservations, Promotion of Renewables, and high efficiency in power generation

• High Supply Potential with additional supplies from North America and Eastern Africa



### **Eurasia Natural Gas Market**



- Emergence of Eurasian pipeline networks
- •Enhanced competitiveness among fuel mix ; competitive pricing, stable supply, low CO<sub>2</sub>, smart use

- •Creation of Eurasia Market and Global Market
- •Competition among supply sources

### **Three Key Factors**

-for the Golden Age of Eurasia Natural Gas Market -

#### Enhanced Competitiveness

- Oil linked price ; S-curve, Gentle slope
- Decoupling from oil price ; Henry-hub, NBP, Asian-hub, Eurasian price, etc
  Combination of Indexes ⇒ Convergence of global market prices
- Stability of Supply ; Portfolio of long-term contracts and open market,

and LNG and pipeline gas supplies

### High Supply Potential

- LNG, Pipeline gas and Indigenous gas resources
- Conventional and Unconventional gas resources

#### Smart Use

- Highly efficient power generations ; MACCGT (Most Advanced Combined Cycle Gas Turbine) , CHP (Combined Heat and Power) , Fuel Cells.
- Smart City structured by Smart Energy Network consisting of natural gas, heat and power; Integration of central and distributed energy system, and all clean energy technologies.