Energy Challenges in Northeast Asia and Future Directions

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Energy Demand in China, Japan, Korea

- Currently 20% of World TPES
- 1/3 of world demand increase
- High dependence on Middle East oil

Energy Resources in Eastern Russia

- Natural gas
- Electricity potential
- Oil reserves

China

Mongolia

Japan

Korea

DPRK

Heilongjiang

Jilin

Liaoning
The region will account for about 26% ($4,303 billion) of world total energy investment ($16 trillion) during the projection period.
Northeast Asia Natural Gas Pipeline Design
Electric Power Link Design in Northeast Asia

(Source: Korea Electrotechnology Research Institute)
Challenges for Regional Energy Cooperation

• Lack of energy infrastructure
  - Need for significant amount of investment

• Energy sector restructuring

• Political issues
Directions for the Future

• Creation of right enabling conditions for energy sector investment

• Less direct intervention from the government

• Close monitoring of the regulatory reforms

• Basic principles of good governance
Thank you!