



1. Why demand-side and technology-oriented approach is relevant?

Asia is fastest growing economy, biggest demand region in the world.



Asia is consuming region rather than supply region.



Source : IEA

Own efforts can easily curb 1 mbd demand, while difficult to increase supply capacity by 1 mbd of oil



Source : IEA

Oil Production Becoming Difficult

- Deep sea, land-locked area
- Politically and Socially difficult area
- Not open for foreign investment

Access to Oil Reserves



1,032 billion barrels







Thermal power efficiency



Energy intensity of Japanese manufacturing industry



Energy efficiency investment of Japanese manufacturing industry



Energy efficiency of refrigerator





2. Energy Efficiency Policy Recommendation

Japan & Korea

- Extended Top Runner Programme & similar
- Expansion of high-speed rail
- Increased government support for nuclear power
- Top Runner efficiency standards for appliances China
- Tighter vehicle-fuel efficiency standards
- Expanded support for more efficient and cleaner coalfired plants
- Expanded government support for gas-fired plants
- Tighter efficiency standards for appliances and equipment in the residential and commercial sectors

IEA Alternative Scenario



4. Japanese Experience of Energy Conservation

- 1. Strong Policy Commitment
 - Law (regulation & Promotion)
 - Incentives (subsidy, tax credit, soft loan)
- 2. Industry / Corporate Level Efforts
 - Energy Management
 - TQM (Kaizen)
 - Investment & Innovation in manufacturing process

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- 3. Public Level Efforts
 - Education