Japan's View on Evaluating the Emission Potential

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Japan's historical efforts

The energy intensity per GDP has improved by 37% over the past 30 years.



Japan has promoted the use of low-carbon energy source.

nuclear and renewable energy/ primary energy supply



Long-term efforts for emission reduction

- Targets under the New National Energy Strategy -
- Energy efficiency: <u>improve at least further 30% by</u> 2030
- Oil dependency in transport sector: <u>decrease to</u> <u>about 80% by 2030</u>
- Ratio of nuclear power generation: <u>maintain more</u> <u>than 30% to 40% even after 2030</u>

Bottom Up & Sectoral Approach

The Kyoto Protocol Target Achievement Plan

Target for FY2010 (Mt-CO2)

Industry	435
Transport	250
Offices, others	165
Household	137
Energy Conversion	69

Pledge and Review by industrial sector

- Japan Business Federation's Voluntary Action Plan
- 35 industry sectors
- Annual review by other members and the government
- Some sectors have cleared the first commitments

Asia-Pacific Partnership

- Partners: Australia, China, India, Japan, Korea, USA
- **Characteristics:** complement to Kyoto Protocol, technology-oriented, public-private partnership, project- and activity-based

Necessity of long-term R&D investment

- Innovation is necessary for stabilizing GHG concentration.
- Government role is very important in the long-term R&D investment.
- The "Strategic technology roadmap in energy field" has been drawn up in Japan.



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Examples of expected technology



Evaluation of global reduction potential

- Steel industry has large potential of CO2 reduction.
- Trade of intermediate & CO2 concentrated products is increasing.
- Global evaluation is necessary to prevent leakage.



Conclusion

For discussing and evaluating the reduction potential, the following points are important.

- Evaluation of global emission reduction potential is important based on the trend of major sectors and technology.
- Specialists' view are important. Setting up a task force whose membership includes energy specialists is one option.
- Establishment of a transparent and commonly usable evaluation measures are essential.