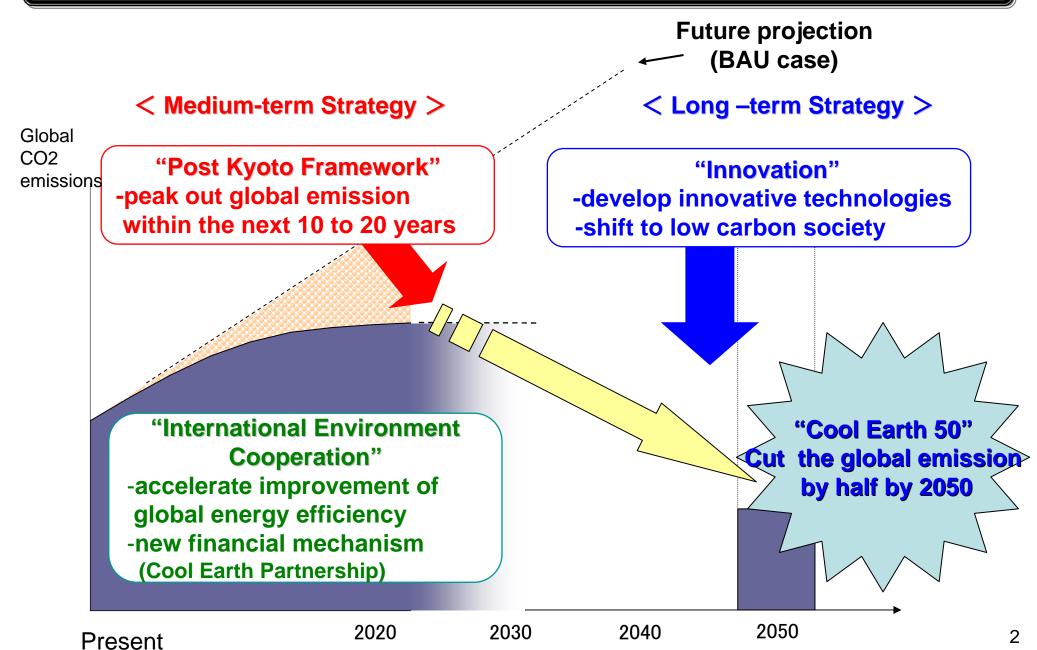
Fact Sheet on Climate Change

Special Address by Prime Minister of Japan, Yasuo Fukuda

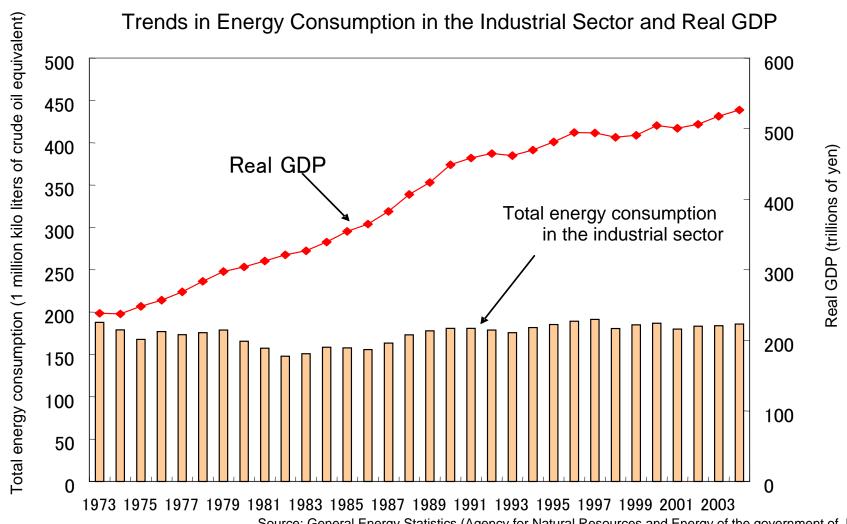
Jan 26, 2008

"Cool Earth" Promotion Programme



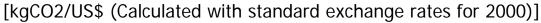
Japan's Energy Conservation Efforts are Making Steady Progress

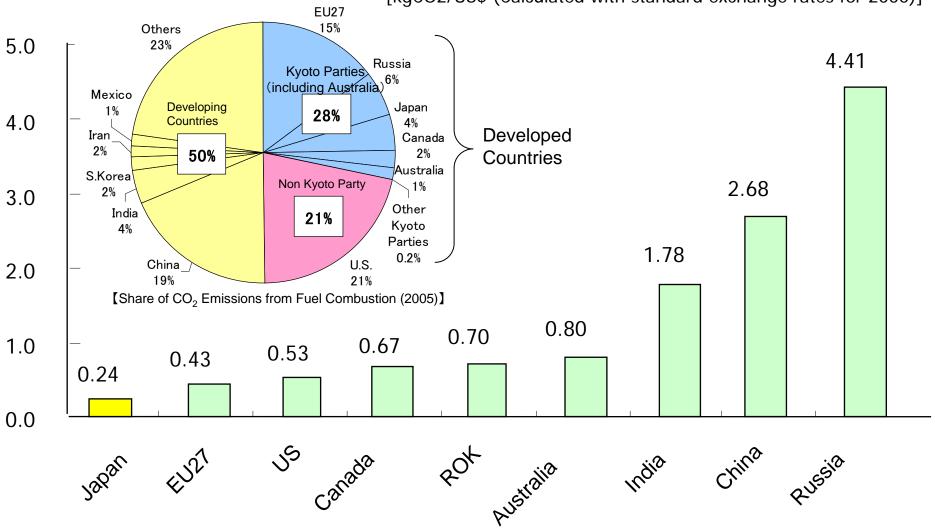
The energy consumption in the industrial sector has stayed on the same level while GDP has doubled



Japan is a Global Leader in Low Carbon Economies

CO2 Emissions per GDP (2005)





4

Innovative Technology Development

Japan will formulate "Cool Earth - Innovative Energy Technology Program" in March
 -increase and focus RD&D investment, and lead international cooperation

<Examples >

High-efficiency and low-cost solar power generation

- ◆Power generation efficiency:
 - 15-20% \rightarrow over 40%
- **♦**Cost:

46 yen/kWh → **7 yen/kWh**

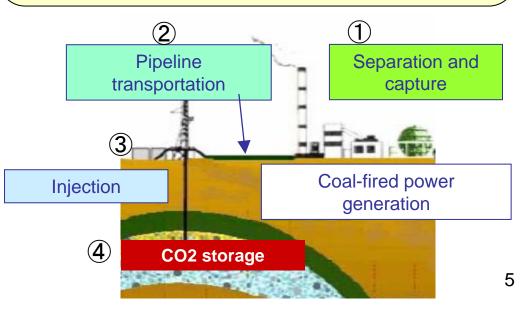
- •High-efficiency and low-cost solar cells with new compounds/structures.
- •Thin-film silicon technology for flexible solar cells



(Thin-film silicon solar cells)

Near zero-emissions coal-fired power generation

◆Power generation efficiency:
43% → around over 60%=cut CO₂ by 30%
+
CCS(CO2 capture and storage) technology
↓
Near zero-emission

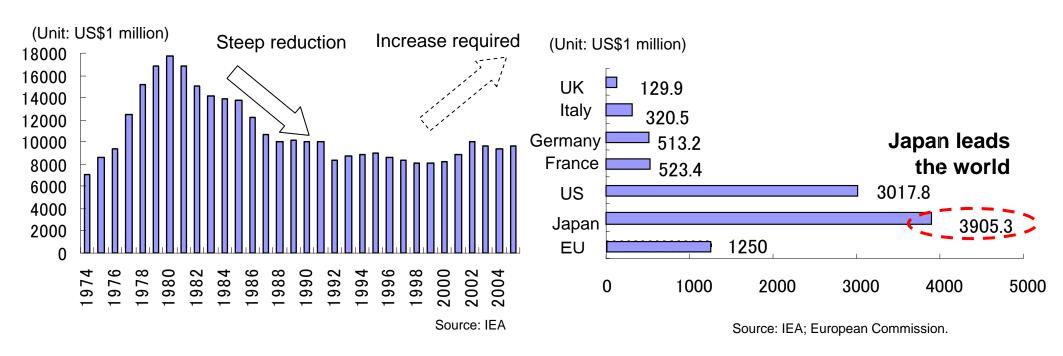


Development of Innovative Technologies to achieve the Long-term Goal

- -Investment in energy-related R&D has been stagnating after steep reduction since 1980
- -Japan leads Public Investment in Research and Development in the Energy Sector

Global Trend in Public Investment in Research and Development in the Energy Sector

Trend in Public Investment in Research and Development in the Energy Sector by Country (2005)



Building a Low Carbon Society





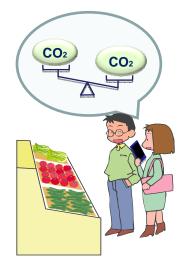


Technological Innovation Lifestyle Innovation Infrastructure Innovation

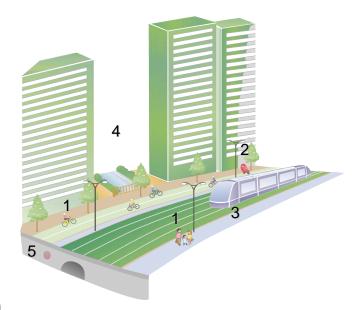
6 10 8

Low Carbon Home

- 7) Eco-use navigation system
 - 8) Efficient heat pump
 - 9) Radiant heat system
 - 10) Fuel cell
 - 11) 200-year durable housing



Green consumer based on GHG data from ubiquitous visualization



Low Carbon Urban Area

- 1) Walkable /Cyclable city
- 2) Smart Comuting / Home Office
- 3) Advanced public transportation system
- 4) Wind passage
- 5) Exhaust heat pipe

- 1) Photovoltaic
- 2) Solar water heater
- 3) Rooftop gardening
- 4) Light shielding
- 5) High insulation
- 6) Efficient lighting