Keidanren's Perspective on Future Framework Beyond 2012

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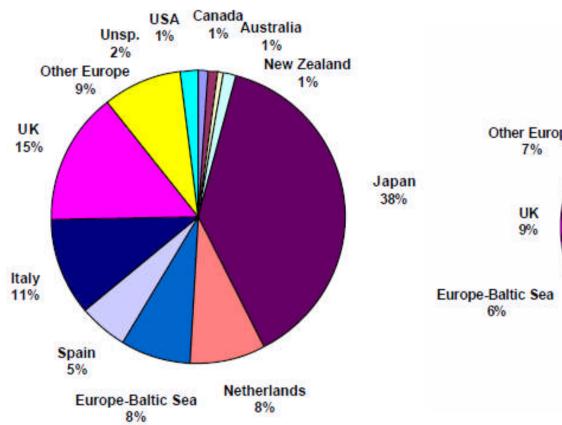
Chairman, Global Environment Strategy WG, Keidanren Project General Manager, Toyota Motor Corporation

Overcoming the limitations of the current framework for the future

- 1) Coordination with energy policy and measures
- 2) Promotion of diffusion and development of technology: the key to climate change measures
- 3) Importance of multiple and flexible approaches
- 4) Utilization of "market mechanisms"
- 5) Improvement of the environment to promote efforts of developing countries

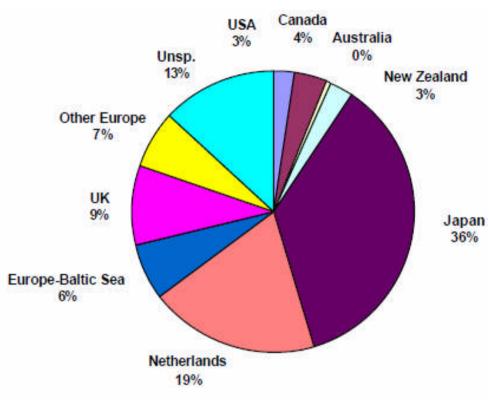


CDM/JI Buyers of project based market



January 2005 to March 2006

Overall volume: 453.5 million t CO2e



January 2004 to March 2005

Overall volume: 110.0 million t CO2e

(Source: World Bank, IETA)



Keidanren's Voluntary Action Plan

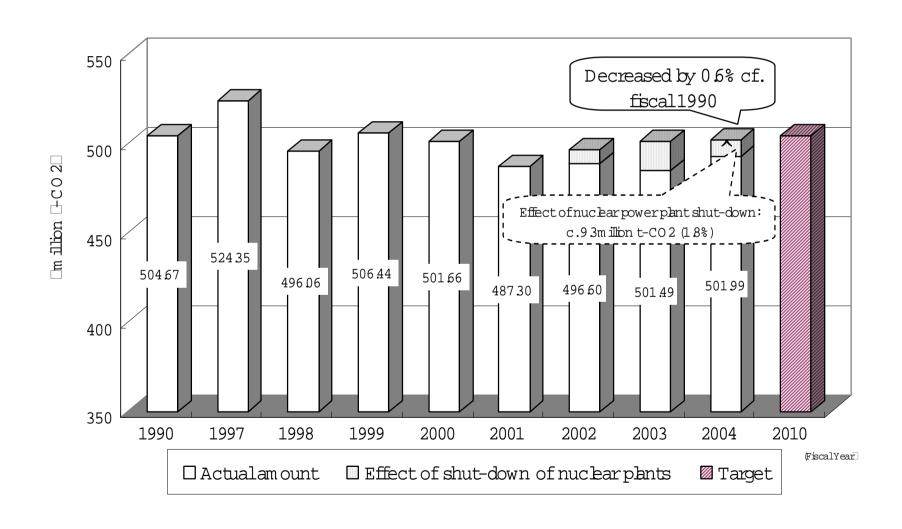
Numerical targets for CO₂ emissions reduction set by each industry

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Targets are kind of;
□CO₂ emissions, □CO₂ emissions intensity,
□energy consumption, □energy intensity
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- Overall target 'to suppress the CO₂ emissions in 2010 from industrial & energy-converting sectors below its 1990 level'
- Annual review of the progress



CO₂ Emissions by 35 Industries in the Industrial and Energy-Converting Sectors





Analysis of 2005 follow-up

	Cf. fiscal 1990	Cf. fiscal 2003	
Change in production	+8.6%	+2.0%	
Change in CO2 emissions per production	-9.2%	-1.5%	
Change in CO2 coefficient	+0.1%	-0.4%	
Total	-0.5%	+0.1%	



GDP and CO2 emissions of Major Countries

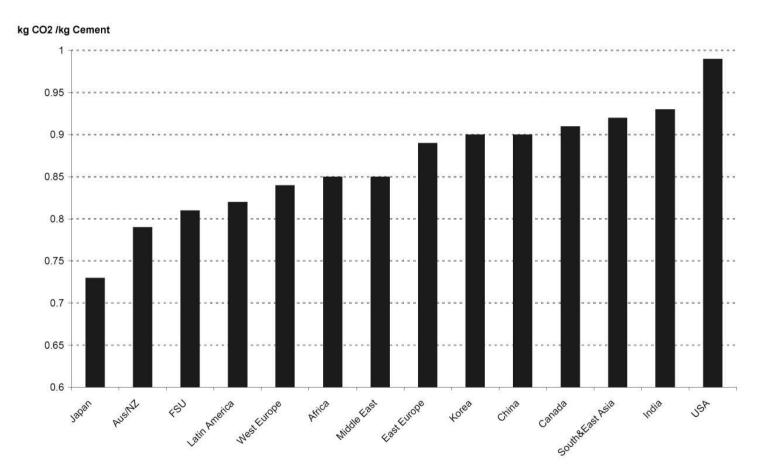
	Japan	EU (15 countries)	USA	China	Russia	India
GDP/World GDP (2001)						
CO2 em issions /World CO2 em sisions (2001)						
CO2 em issions to produce sameGDP □Japan = 1□						

Source: GDP: OECD 2003

CO2 emissions: IEA 2003



Cement CO2 Intensities by region, 2000



Source: Battelle(2002): Toward a Sustainable Cement Industry(WBCSD)



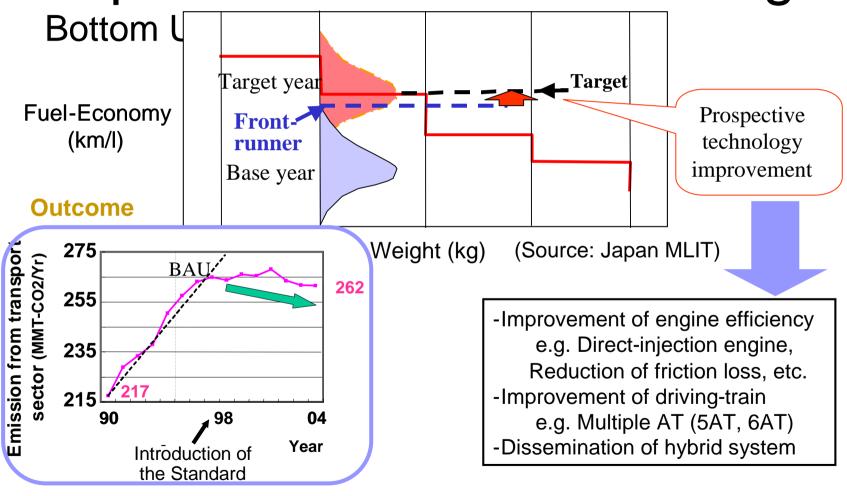
Energy Efficiency Standards and measurement

Improving Equipment Efficiency with the Top Runner Program
 The Top Runner Program was introduced in 1998 for the energy conservation standards for home/office appliances and the fuel economy standard of automotives.
 Maximum standard value system
 Target Products (21 Items)

- □ Target Products (21 Items)
 - -home/office appliances (Air conditioners, Refrigerators/Freezers, Microwave Ovens, Rice Cookers, Fluorescent Lights, TV sets, Video Cassette Recorders, DVD Recorders, PCs, Magnetic Disc Units, Copying Machines,
 - Electric Toilet Seats, □□□etc)
 - -Transformers
 - -Passenger Vehicles, Freight Vehicles
- ☐ To establish target standard values for home/office appliances, reduction of standby consumption should be taken into account
- Measurement methods should bear domestic and international harmonization in mind

Example: Japan Fuel efficiency standard (Front Runner Approach)

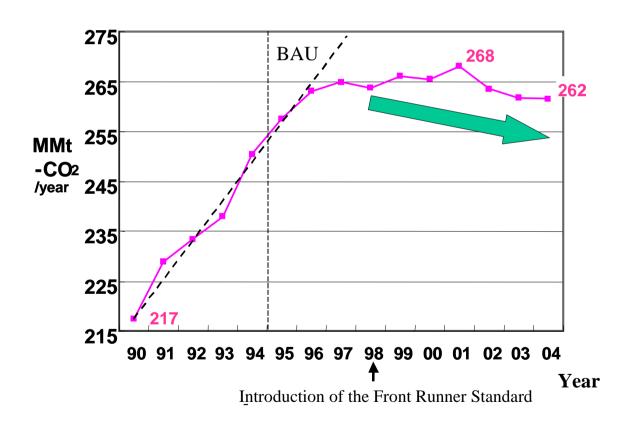
Importance of Benchmarking



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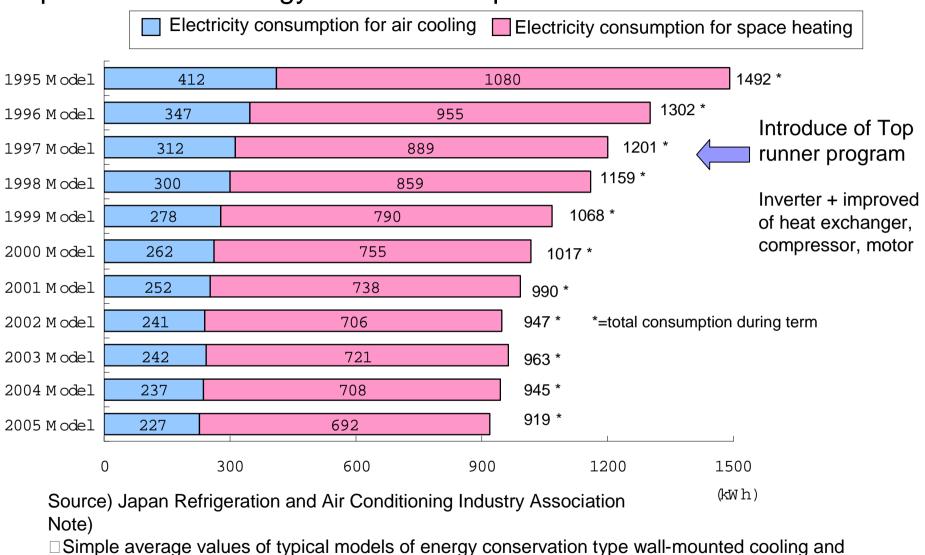
Status of Front Runner Approach

Example: Emission from transport sector and Japan Vehicle Fuel efficiency standard



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Improvement of energy conservation performance on Air Conditioners



☐ Based on Japan Refrigeration and Air Conditioning Industry Association standards JRAS4046

heating air conditioners with 2.8kW cooling capability.

(standards for calculating room air conditioner term power consumption)