Panel Presentation

Global Warming Prevention Initiatives of the Matsushita Group and the Electrical/Electronic Industry

(Summary: Translated by Secretariat)

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Matsushita Electric Industrial Co., Ltd.



1. Activities of the Electrical / Electronic Industry

(1) Promotion of a Voluntary Action Plan for Global Warming Prevention

In 2010, CO₂ emissions of electrical/electronic industry will be almost twice of that of 1990. However, considering that net production output will increase almost 3 times, CO₂ emissions per basic unit of net production output will decrease by 34%. (New target is 35% improvement over FY 1991)

Although since 1990, CO₂ emissions in Device sector have been increasing, CO₂ emissions per basic unit have decreased by half in recent 10 years.

(2) Initiatives for Achieving an Energy Conservation Society

Although population of Japan has been decreasing, the number of households has been increasing. The decrease in CO₂ emissions per households is the result of promoting energy-efficient home appliances such as refrigerators and air-conditioners.

2. Activities by the Matsushita Group

We have been promoting environmental management through Green plan 2010 announced in 2001. The following three prioritized activities have been spread out since October 2007.

(1) "eco ideas" for Manufacturing

We regard all processes from product-planning to recycling as manufacturing. By improving productivities, we are trying to reduce CO₂ emissions to the level of the year 2000 by 2010.

(2) "eco ideas" for Products

We use the term "creating values for a new lifestyle" to mean improving the quality of life while minimizing environmental impact. We are targeting to reduce CO_2 emissions to 40% by improving product functions twice

In the efforts to promote energy-efficiency, we are trying to develop fundamental technologies, blackbox technologies.

(3) "eco ideas" for Everybody, Everywhere

We believe environmental information disclosure to be essential and we have been advancing eco-ideas through various media ahead of the times. Also our employees have been promoting "Love the Earth (LE)" campaign as single citizens.

For the global communication of LE campaign, we are promoting eco-ideas in Matsushita plants in China targeting over 60,000 employees. One of those efforts can be seen in Panasonic's declaration as an Environmentally Contributing Enterprise.

Panasonic ideas for life

Global Warming Prevention Initiatives of the Matsushita Group and the Electrical/Electronic Industry





February 14, 2008 Nobukazu Sugano Matsushita Electric Industrial Co., Ltd.

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- Activities of the Electrical/
 Electronic Industry
- Promotion of a Voluntary
 Action Plan for Global Warming
 Prevention
- Initiatives for Achieving an Energy Conservation Society

Activities of the Electrical/Electronic Industry

Supply Side

Power Generation, Distribution

- Efficiency improvement
- Use of renewable energy
- Promotion of nuclear power generation

Consumption Side

Household, Business, Factory, Social Infrastructure

- Development of energyefficient products
- Global promotion of energy-efficient products

Companies

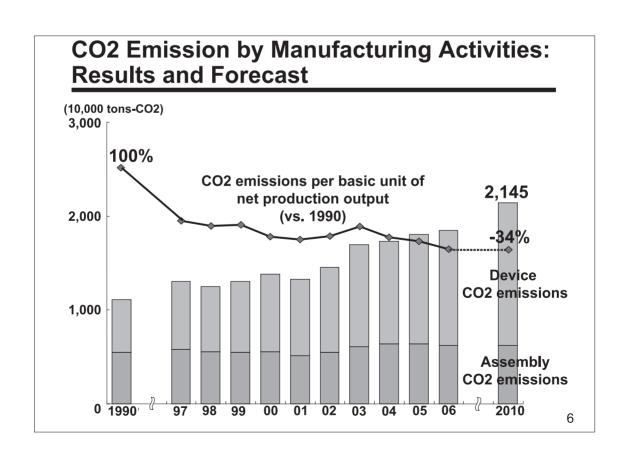
 Promotion of voluntary action plans for global warming prevention

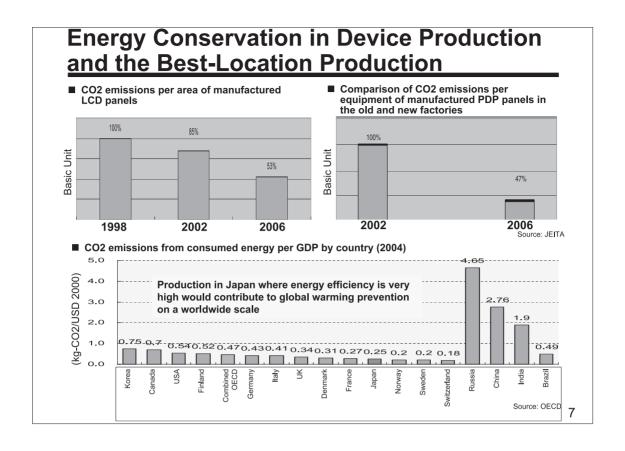
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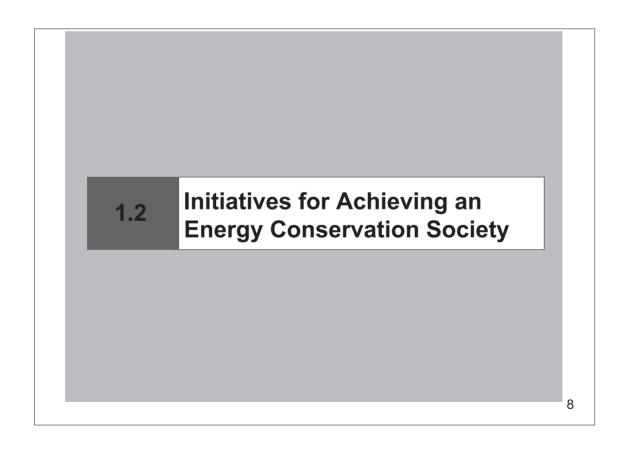
Promotion of a Voluntary Action Plan for Global Warming Prevention

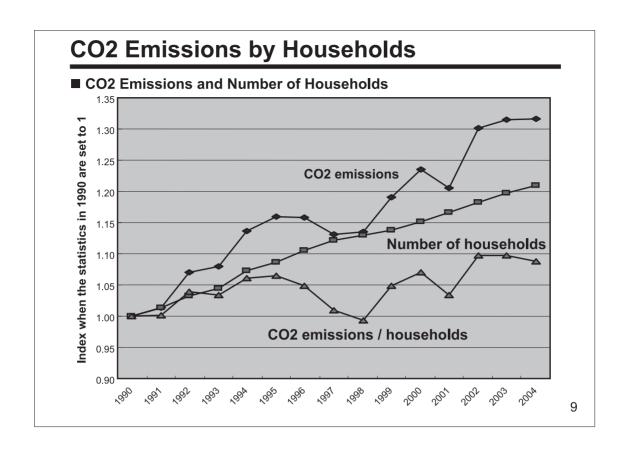
Current State of Voluntary Action Plans
for Global Warming Prevention

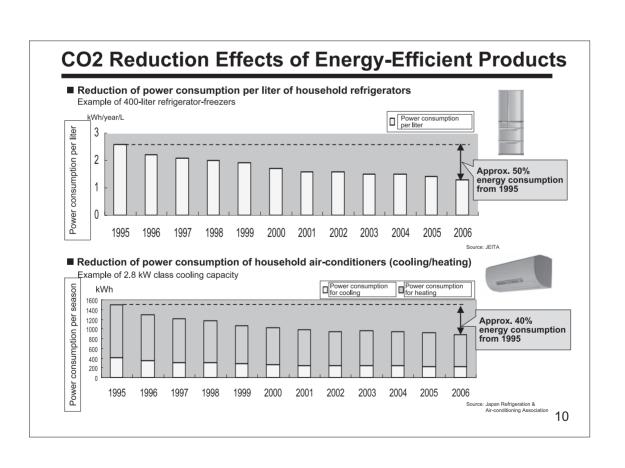
FY	FY1991	FY2007		FY2011	
Nominal Production [trillion yen]	34.3	42.0	122%	51	147%
Deflator	1.00	0.486		0.502	
Net Production Output [trillion yen]	34.3	86.4	252%	101	294%
CO2 Emissions [10,000 tons-CO2]	1,112	1,846	166%	2,145	193%
Net Production Output per Basic Unit	0.324	0.214	-34% N	0.213 ew target:	-34%

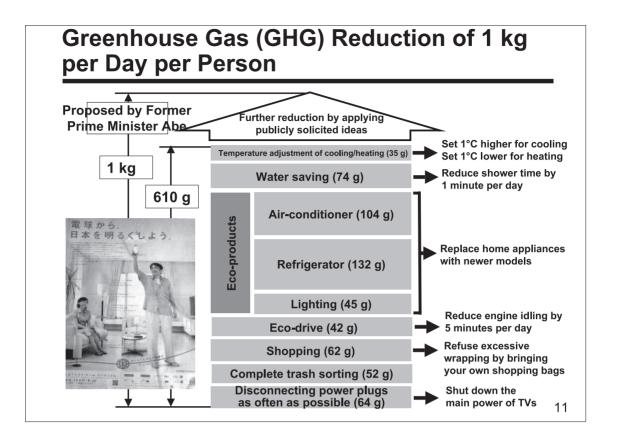
















- Household energy reduction by replacing with energy-efficient home appliances
- Construction: Ministry of Economy, Trade and Industry, Ministry of Environment, manufacturers, distributors, consumer representatives
- Activity
 - Information offering...Information about energy-efficient home appliances
 - ♦ Market penetration campaign...Unified promotion campaign
 - Energy conservation diagnosis tool...Study of calculation method of energy conservation by replacement of home appliances

Participation in APP

Asia-Pacific Partnership on Clean Development and Climate



Taskforce for building and electrical equipment

Electrical equipment

- Project 1: Standardization of measuring method of consumed energy L: Korea CL: Japan, U.S.
- Project 2: Reduction of standby power L: Australia CL: Korea
- Project 3: Conversion to the society of prioritizing energy-efficient products

L: Japan CL: China

Collecting information about "good practice" cases under each country's policies and systems to study the "measures for converting to the market popularizing products with higher energy performance"

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- 2 Activities by the Matsushita Group
- **2.1** Promotion of Clean Factories
- **2.2** Promotion of Green Products
- Promotion of Environmental Communication

Panasonic's Vision for 21st Century

Realizing a Ubiquitous Network Society

Living in Harmony with the Global Environment

Contribute to Mankind's Quality of Life

Service & Digital Appliance
Solution Network Environmental
System
Device
Production System

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Company Profile

■ Foundation 1918

■ Sales 9,108.2 bln. JPY

■ Operating 459.5 bln. JPY Profits

■ Employees 330,000 approx.

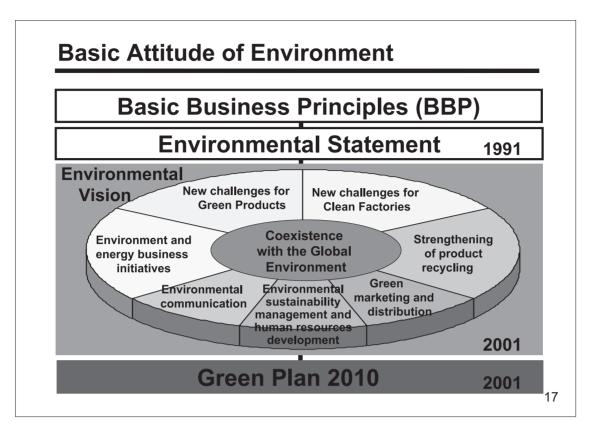
Sales

Overseas Japan 51%

Employees

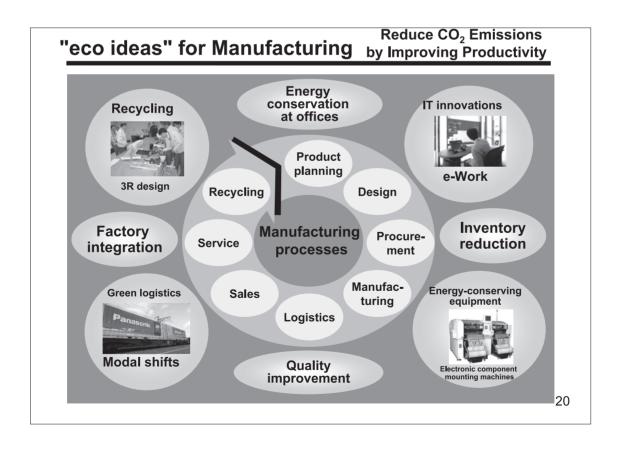
Overseas Japan 56% 44%

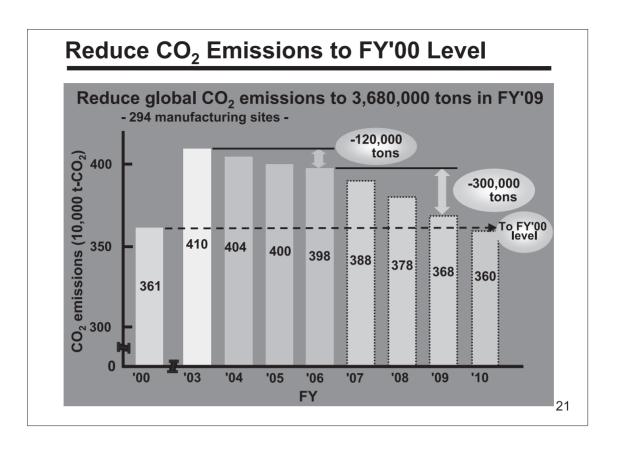
(As of March 2007)













Improving the quality of life Minimizing environmental impact Create Values for a New Lifestyle Ripple to society

Eco & UD House









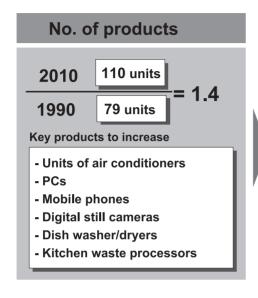
Proposing Factor 5
by targeting 2010 in comparison with 1990

「生活の質」を2倍 Improvement in "Quality of Life" x2 「環境への影響」を0.4倍 Reducyion in "Environmental Impact" x0.4

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Improvement in "Quality of Life" x 2

■ Improving product functions through UD to 200%





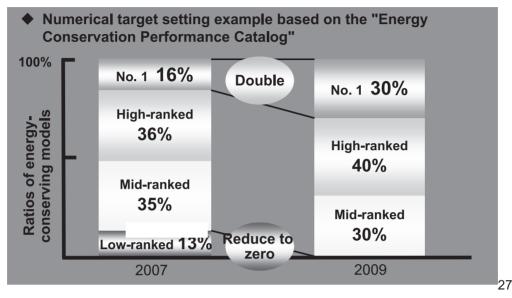
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Reduction in "Environmental Impact" x 0.4 ■ Reducing CO2 emissions to 40% 1. Energy-conserving by equipment 2. Energy-conserving by high-performance insulators 3. Energy-conserving by ubiquitous network (Home Energy Management System, HEMS) 4. Energy-conserving by new energy-resource equipment (fuel cells, solar energy) **Energy-conserving by** No. of units equipment (40%) x 1.4Insulators _HEMS **Fuel cells** CO2 emissions Solar energy 1.0 reduction measures 0.4 2010 Base year: 1990 26

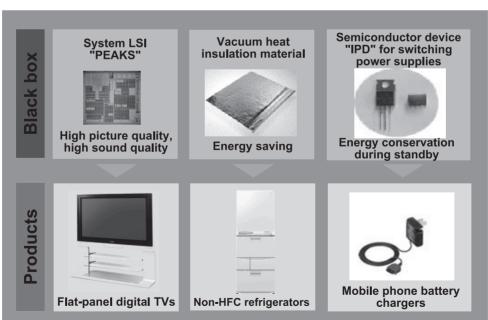
"eco ideas" for Products

Maximum Products' Energy Efficiency

Increase the number of products featuring the No.1 energy-conserving performance and eliminate energy inefficient products

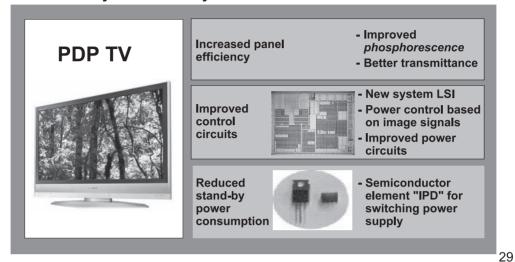


Creation of "Black-Box Technologies"



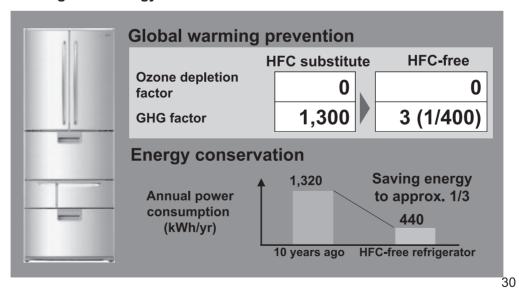
Energy-conserving Measures for PDP TVs

- The world's first lead-free PDP
- Up to approx. 45% reduction in annual power consumption 382 kWh/yr → 209 kWh/yr



Global Warming Prevention and Energy-conserving by HFC-free Refrigerators

■ Contribution to global warming prevention in both HFC-free design and energy conservation



Promotion of Environmental 2.3 Communication

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Disclosing Environmental Information and Promoting Environmental Communication

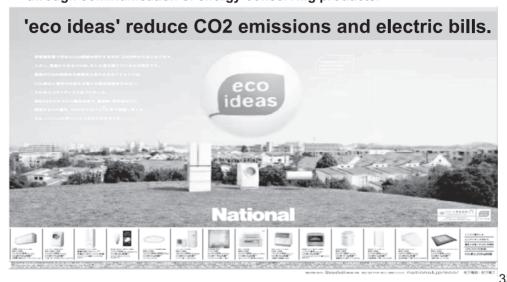
■ Communicating Panasonic's environmental initiatives to society with transparency, for improving corporate values



Shareholders Investors Administra-tive agencies Academic institutions Mass media Consumers Employees Local residents NPOs NGOs

Proposing 'eco ideas'

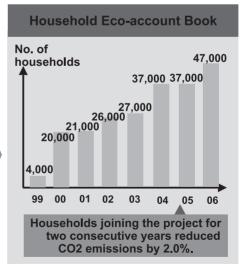
- The Panasonic Group leads the way with 'eco ideas' in every activity.
- We contribute to global warming prevention in the household sector through communication of energy-conserving products.



Corporate Citizenship

■ Panasonic proposes innovations in awareness, activities and lifestyles to its employees and their families, through its "Love the Earth Citizens Campaign."





'eco ideas' for Everybody, Everywhere

Expand Eco-conscious Activities with the Collective Wisdom

Love the Earth Citizens' Campaign (LE Campaign)

Global promotion

Establishment of factories that achieve living in harmony with local communities

'eco ideas' Factory

Acceleration of environmental contributions in China

China Eco Project

3!

Panasonic's Declaration as an Environmentally Contributing Enterprise in China

- We will make all of our products "Green Products"
- We will make all of our factories "Clean Factories"
- All Matsushita Group companies adopt an Eco-Behavior



Our company intends to become one of China's environmentally contributing enterprises by implementing these activities with each one of you as members of society

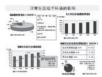
All Matsushita Group Companies in China Adopt an "Eco-Behavior"

60,000 employees in China have declared their intention to adopt an Eco-Behavior

Eco-lifestyle awareness activities







"Ten Items of an Eco Lifestyle" (Material)

China region Intranet "China Green Plan"

Employee wareness materials

"Eco-Behavior" signature campaign

Signed by 67,336 employees of 74 companies in China







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