

# NEDO's Activities on CDM

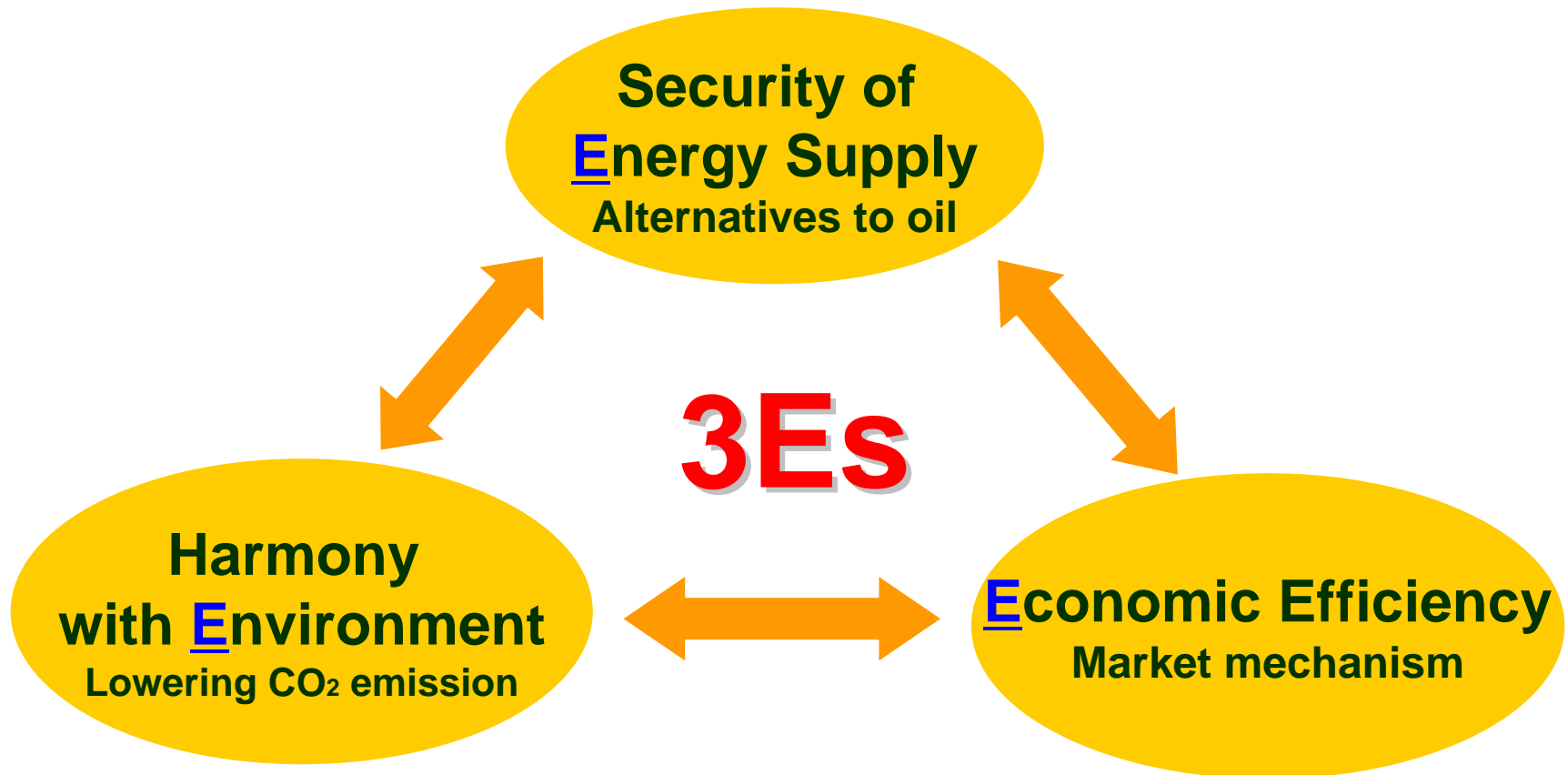
Bangkok, 13Dec.2005

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*Toyo University / NEDO, JAPAN*



# *Principle of Japan's Energy Policy: 3Es*



\*The Basic Plan on Energy endorsed by the Cabinet in October 2003

\*Revision of the long-term outlook for energy supply and demand is scheduled to be finalized this summer

# Cost Competitiveness of NRE

## Power generation cost of new energy

(Unit: JPY/kWh)

Type	Photovoltaic power		Wind power		Waste power		Biomass power	Small- and medium-scale hydropower
	Residential	Non-residential	Large-scale	Small- and medium-scale	Large-scale	Small- and medium-scale		
Power generation cost	46~66	73	9~14	18~24	9~11	11~12	7~21	14

Source : Report by the New Energy Subcommittee of the Advisory Committee on Energy and Natural Resources (July 2001), and others

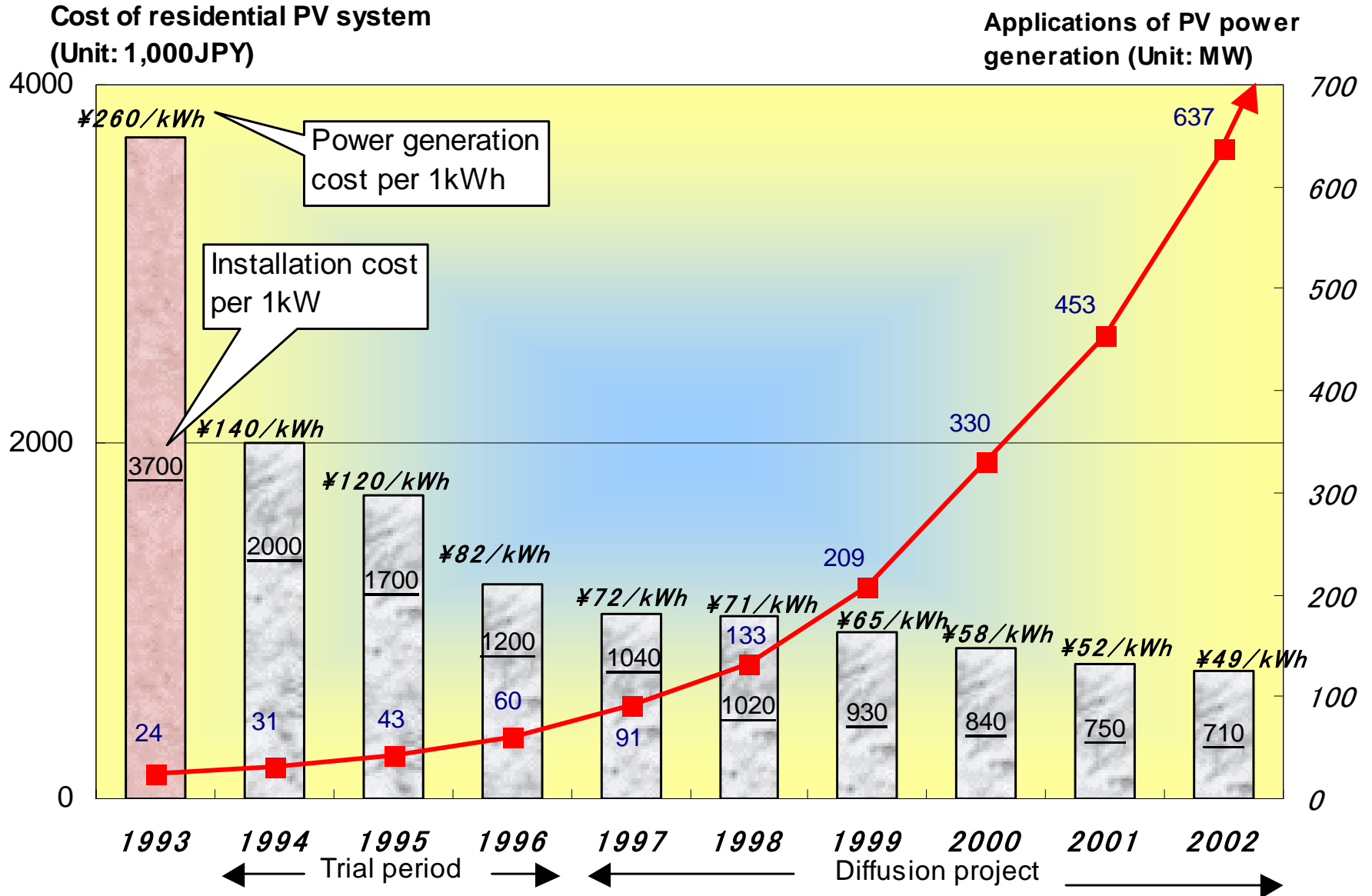
## Power generation cost by power source

(Unit: JPY/kWh)

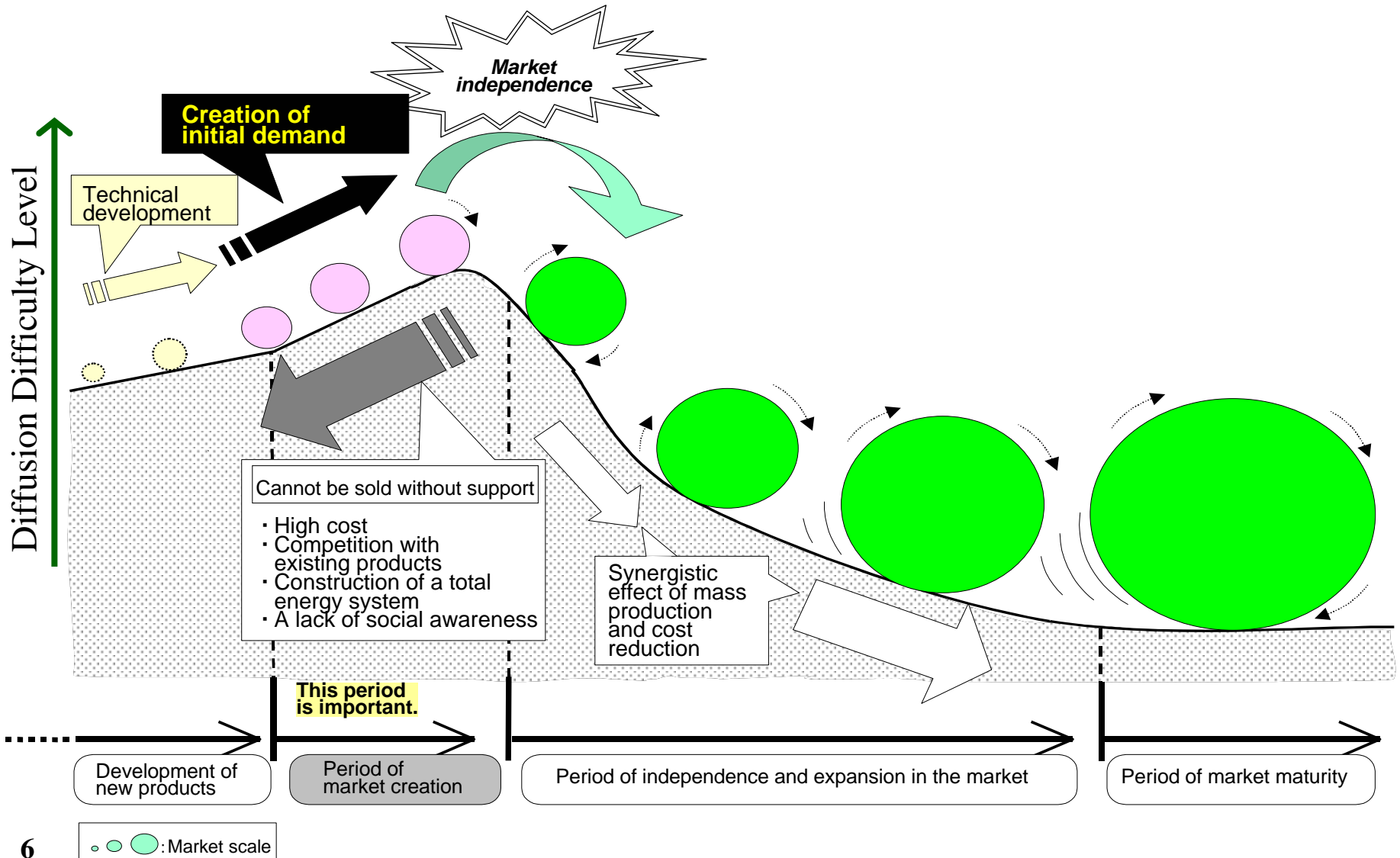
Type	Nuclear power	LNG-fired	Coal-fired	Oil-fired
Power generation cost	5.9	6.4	6.5	10.2

Source : Data of the 70<sup>th</sup> Nuclear Power Subcommittee of the Advisory Committee for Energy (December 1999)

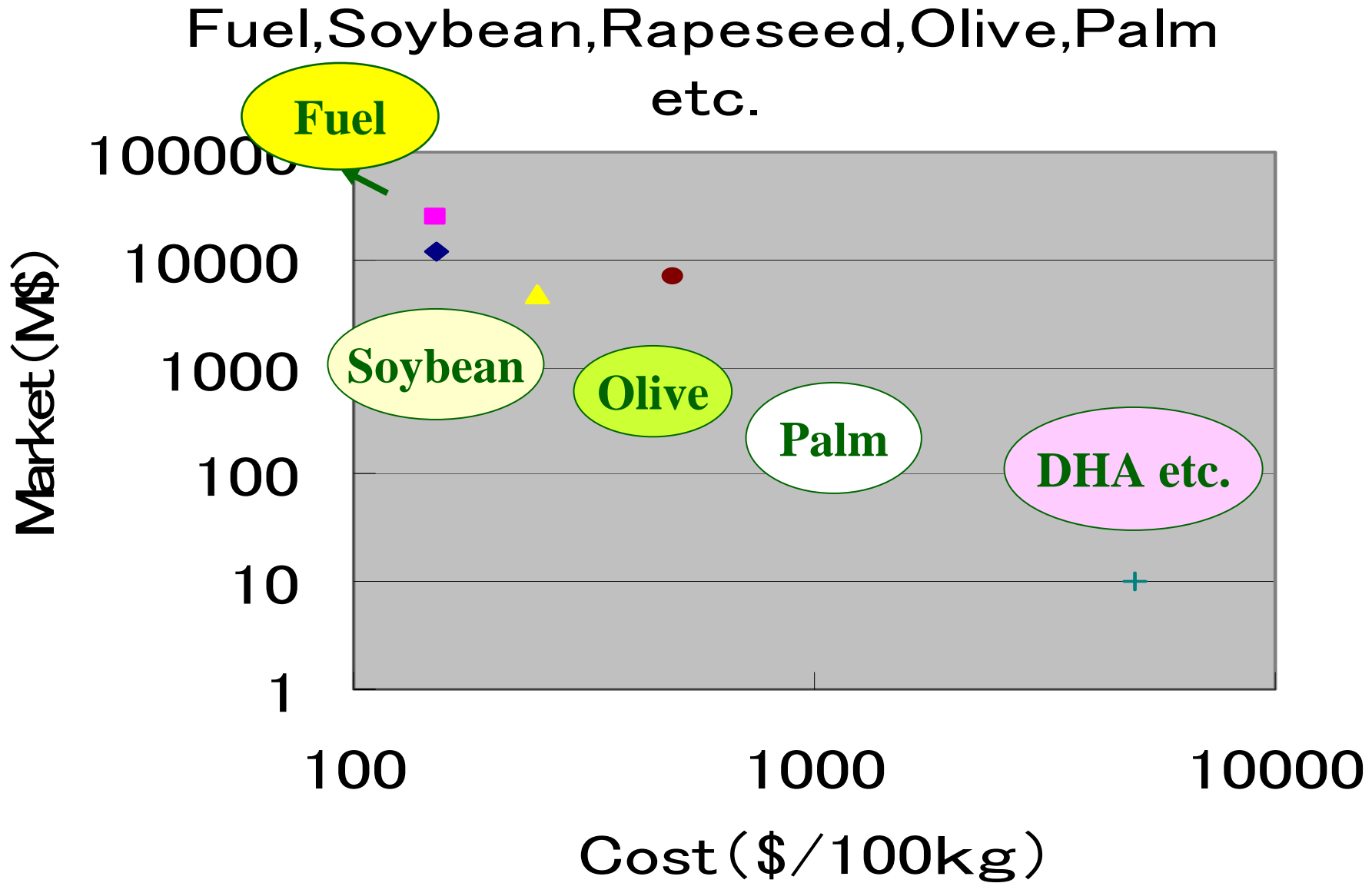
# PV Power Generation Capacity in Japan



# Creation of Initial Demand

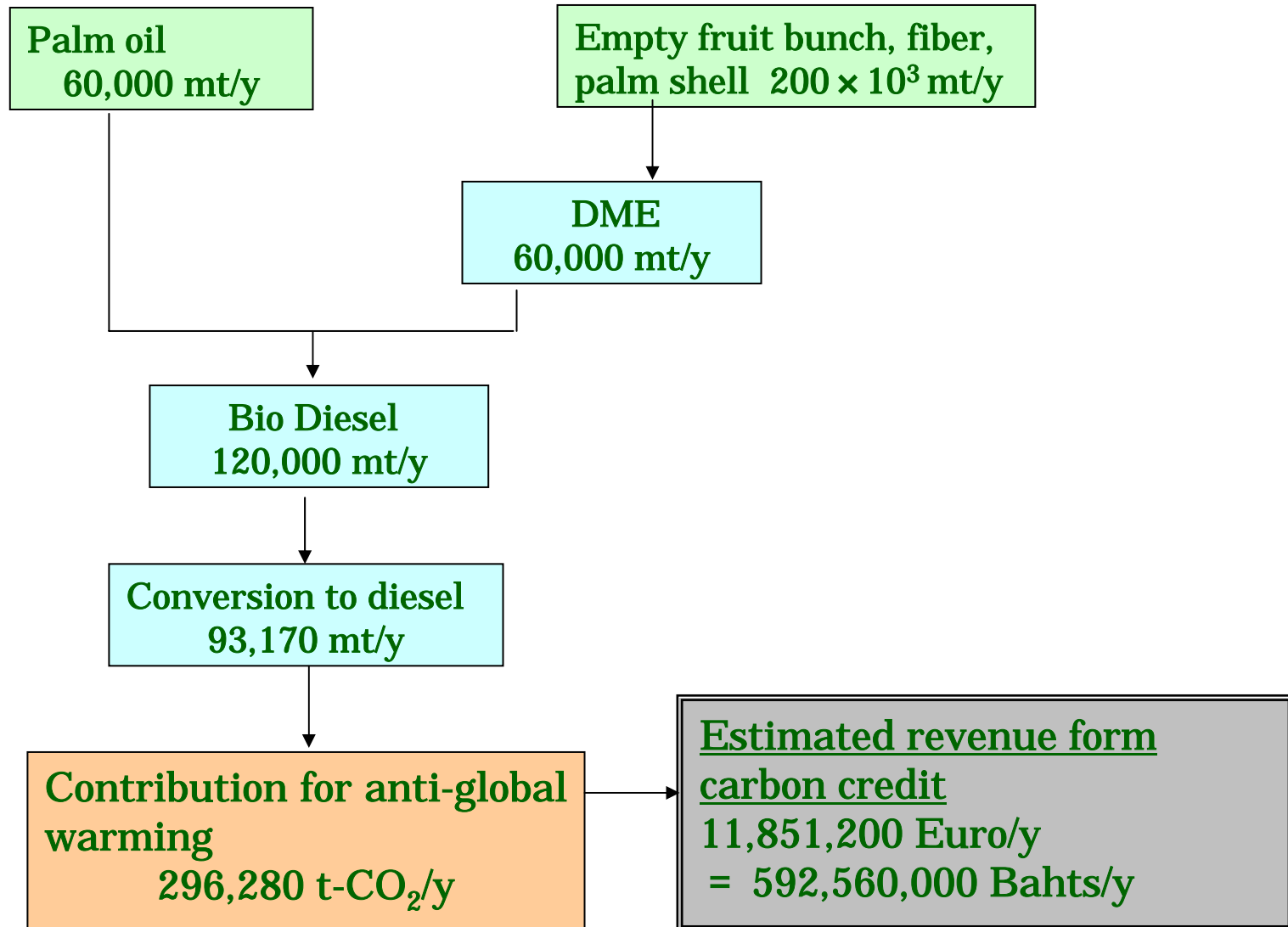


# Cost and Market on Bio-Products



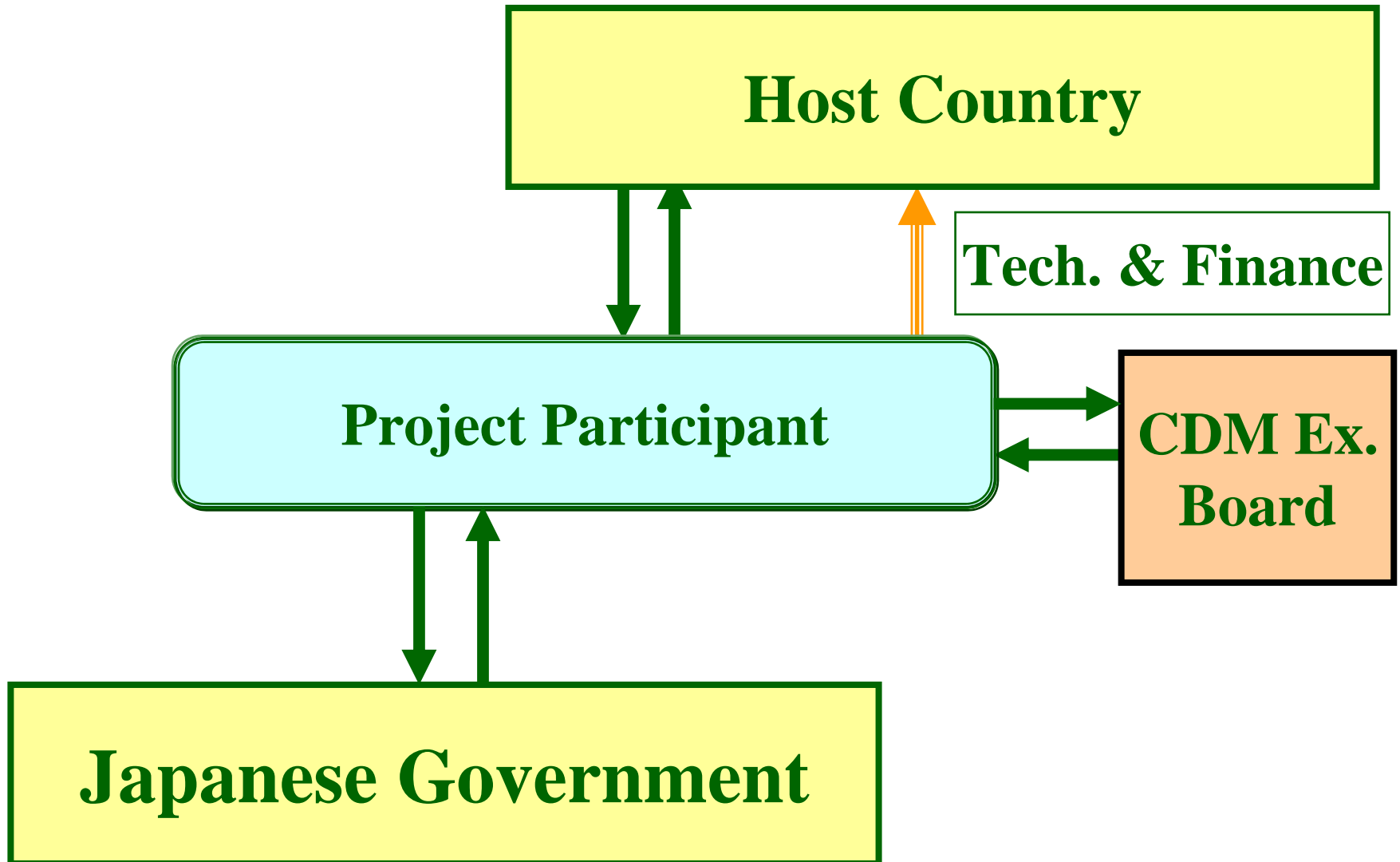
Source: Based on Dr.Tanaka's.Santory

# Japan-Thailand Cooperation; F/S on DME as CDM



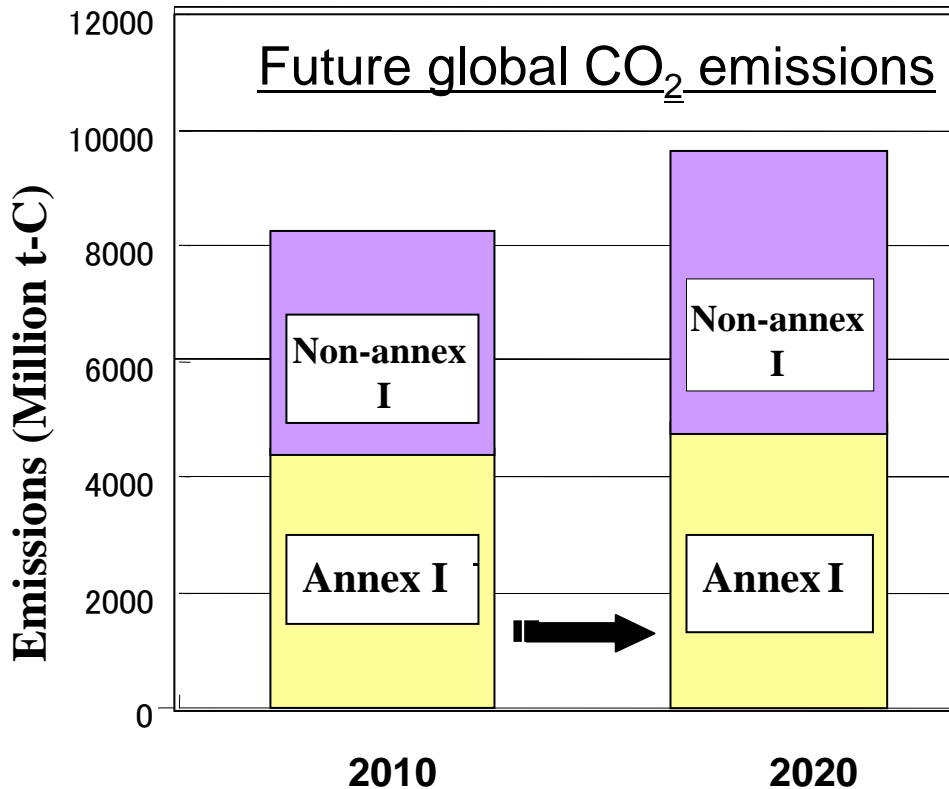
\* Current price in EU-ETS is approx. 30 euro/t-CO<sub>2</sub>. This price is expected to rise up to 40 euro/t-CO<sub>2</sub> (= penalty price by EU NAP) in 2008.

# ***What is CDM ?***

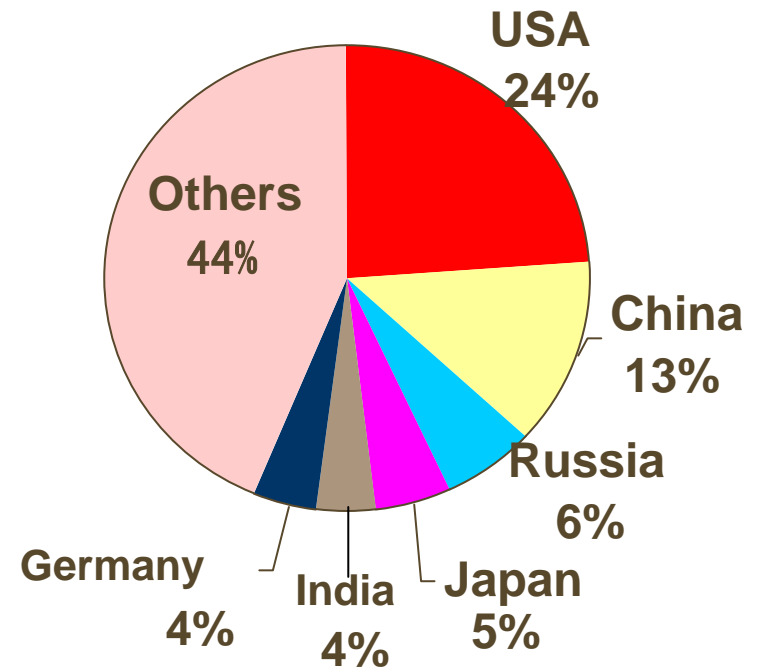


# The reason Why ?

## CO<sub>2</sub> Emissions in the world

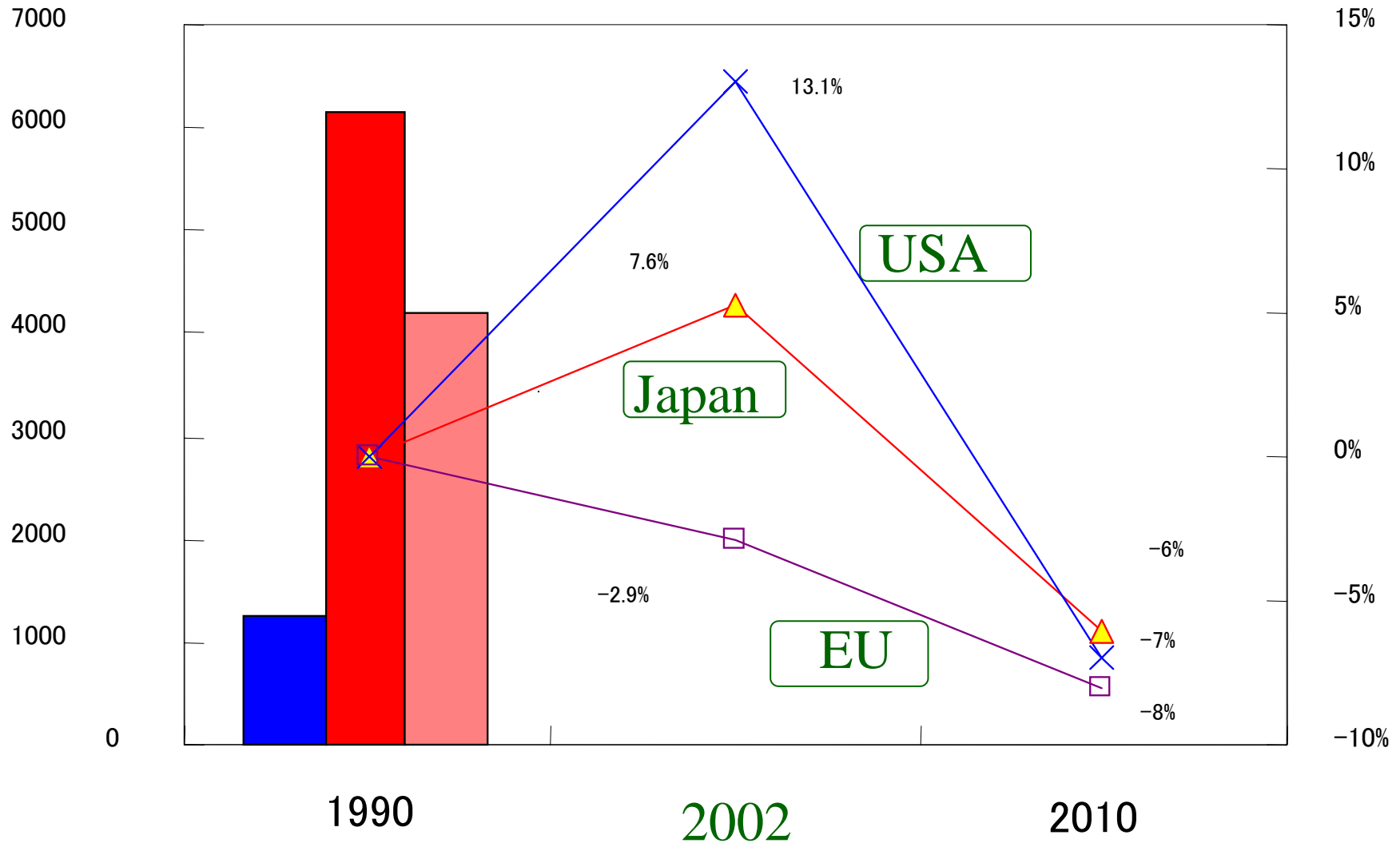


Global CO<sub>2</sub> emissions in 1999

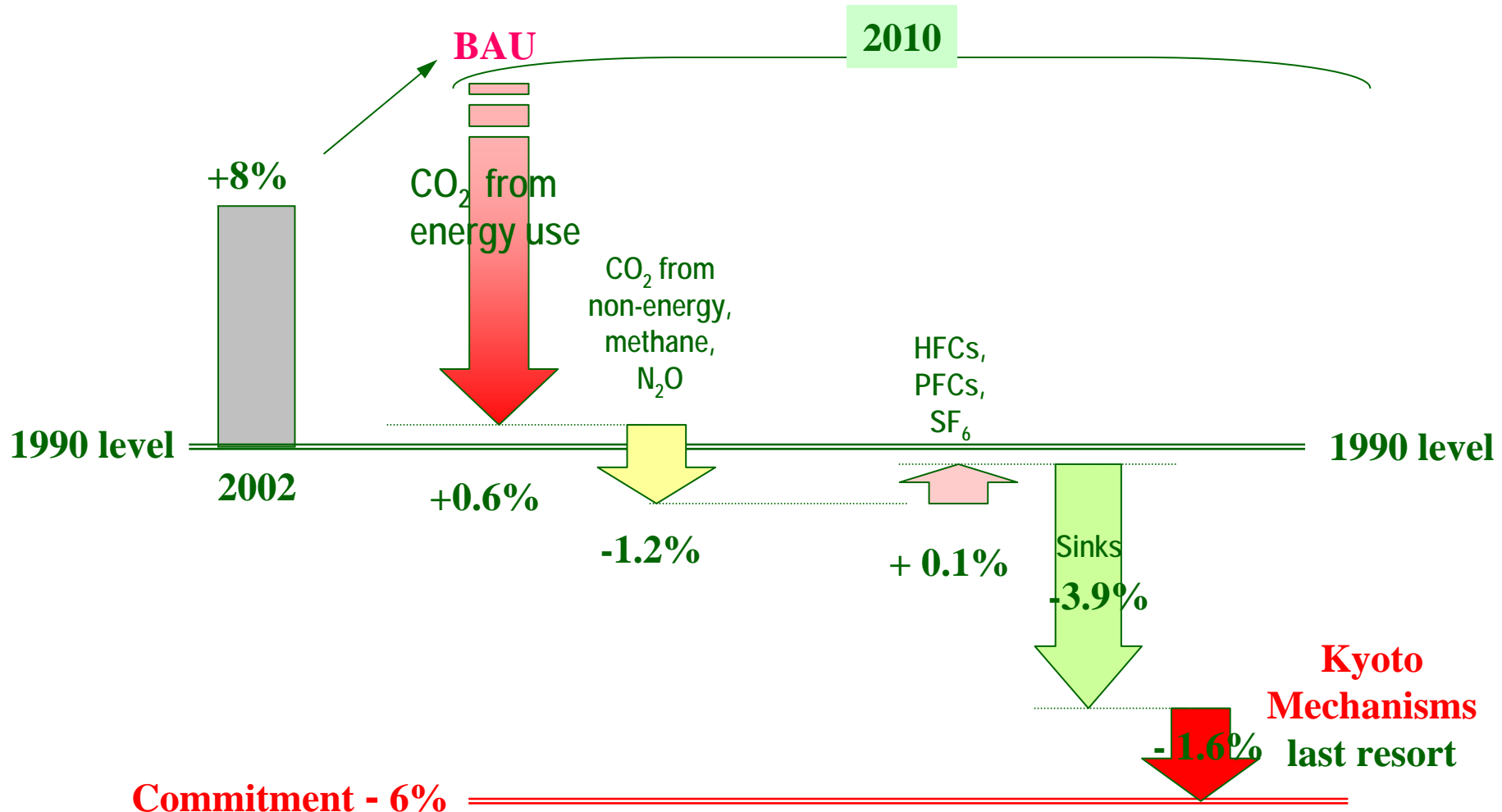


# The Kyoto Targets; US, EU & Japan

Million CO2ton



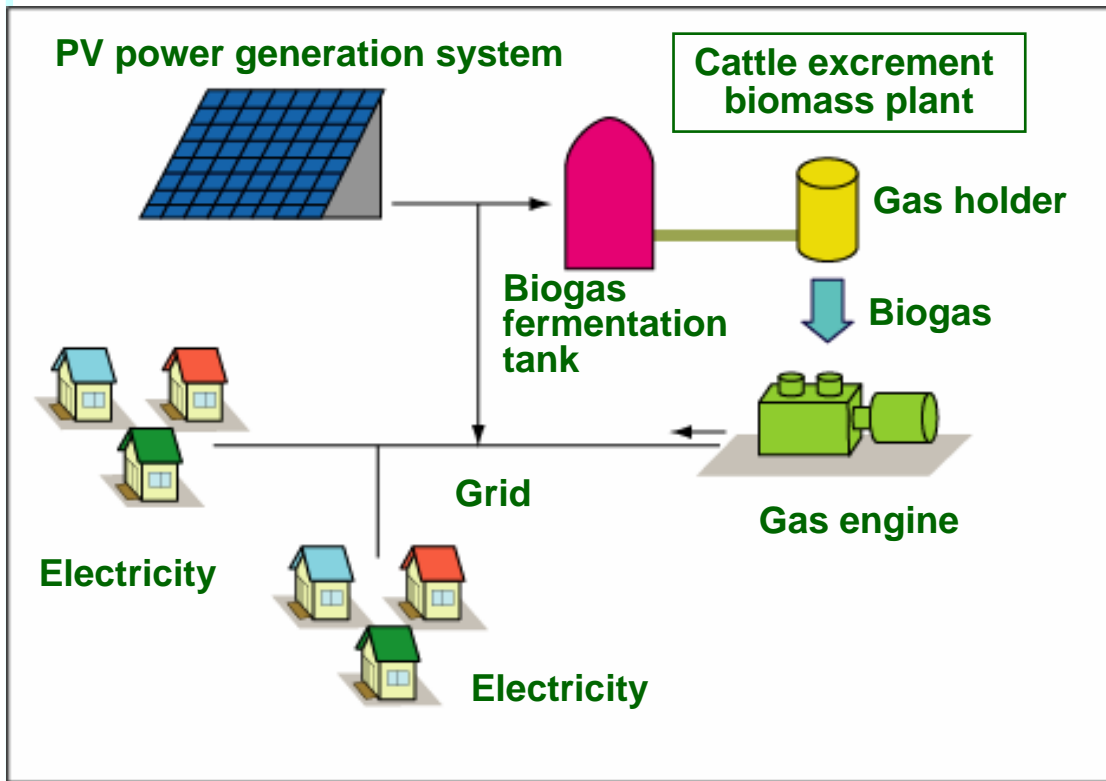
# Japan's Strategies for the Kyoto Target: 6% GHG Reduction!



# CDM/JI Projects approved by Gov.of JAPAN

CDM/JI	Country	Applicants	Project Name	Amount of CER/ERU expected
CDM	Brazil	Toyota Tsusho Corporation	V&M do Brazil Fuel Switch	1,130,000ton-CO2
CDM	Thailand	Electric Power Development Co., Ltd.	Rubber Wood Residue Power Plant Project in Yala	60,000ton-CO2
CDM	South Korea	INEOS Fluor Japan Limited	HFC Decomposition Project in Ulsan	1,400,000ton-CO2
CDM	Bhutan	Kansai Electric Power Co., Inc.	e7 Bhutan Micro Hydro Power CDM Project	500ton-CO2
CDM	Vietnam	Japan Vietnam Petroleum Company	Rang Dong Oil Field Associated Gas Recovery and Utilization Project	680,000ton-CO2
CDM	India	Sumitomo Corporation	Thermal Oxidation of HFC23 in Gujarat	3,380,000ton-CO2
CDM	Thailand	Chubu Electric Power Co., Inc.	A.T.Biopower Rice Husk Power Project in Pichit, Thailand	84,000ton-CO2
CDM	Chile	Electric Power Development Co., Ltd	Graneros Plant Fuel Switching Project	14,000ton-CO2
JI	Kazakhstan	NEDO	The Model Project for Increasing the Efficient Use of Energy Using a Gas Turbine Cogene.- System	62,000ton-CO2

# NEDO's Project on Combined Power Generation Systems in Cambodia (PV + Biogas)



**PV: 50kW**  
**Biogas: 70kW**

**Power distribution:**  
 86 households, 8 hrs/day  
 → to be increased to 200 households

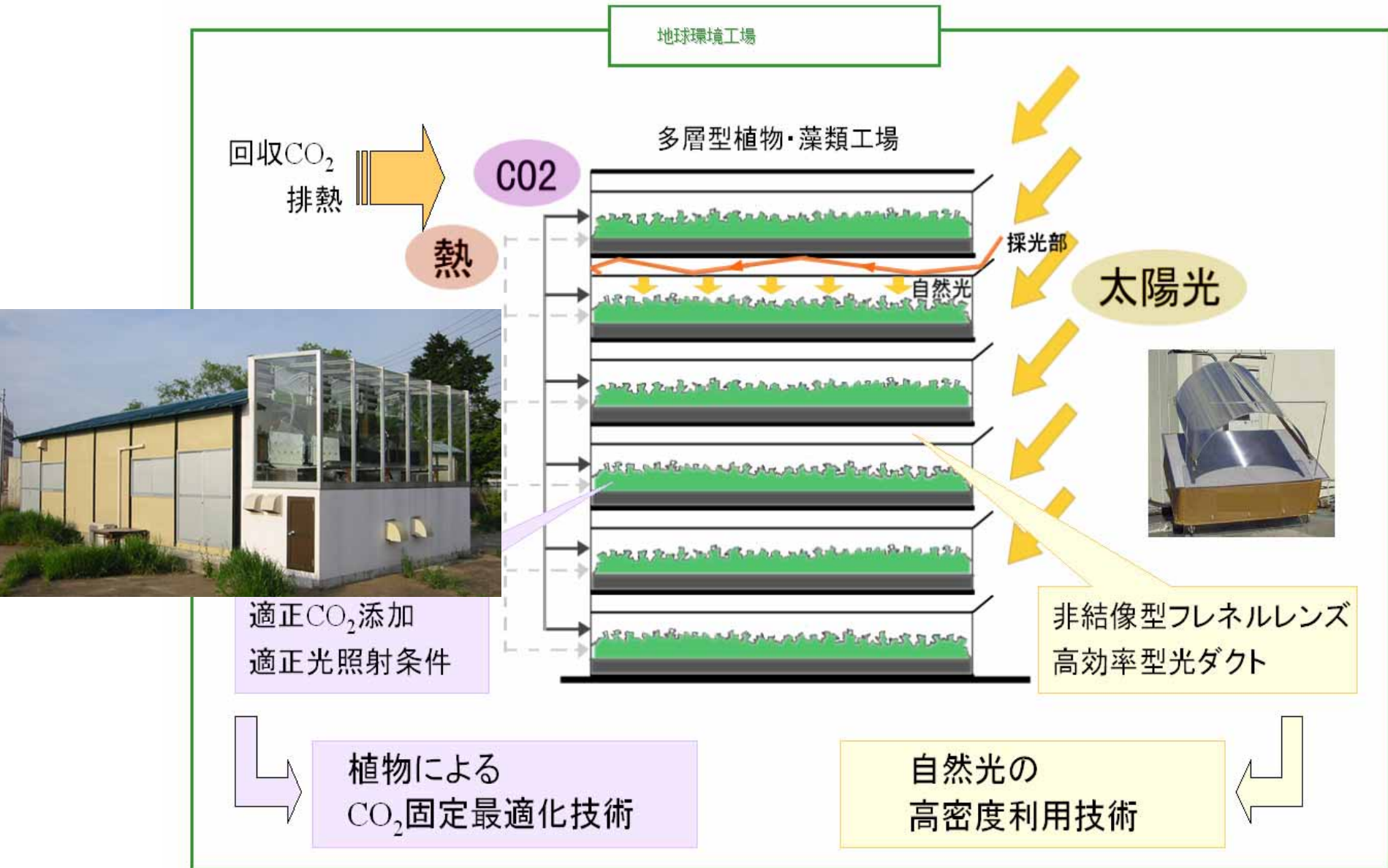


**Biogas fermentation tank**

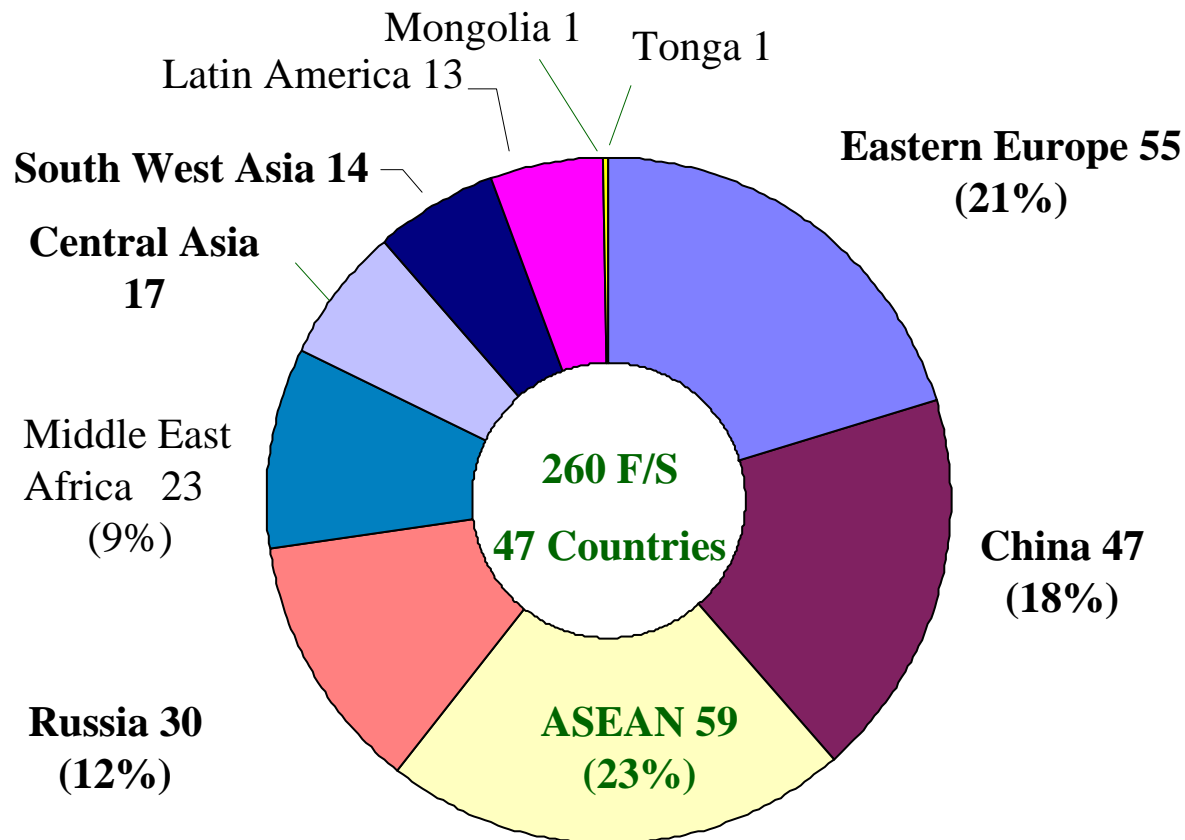


**PV panels (24m X 29m )**

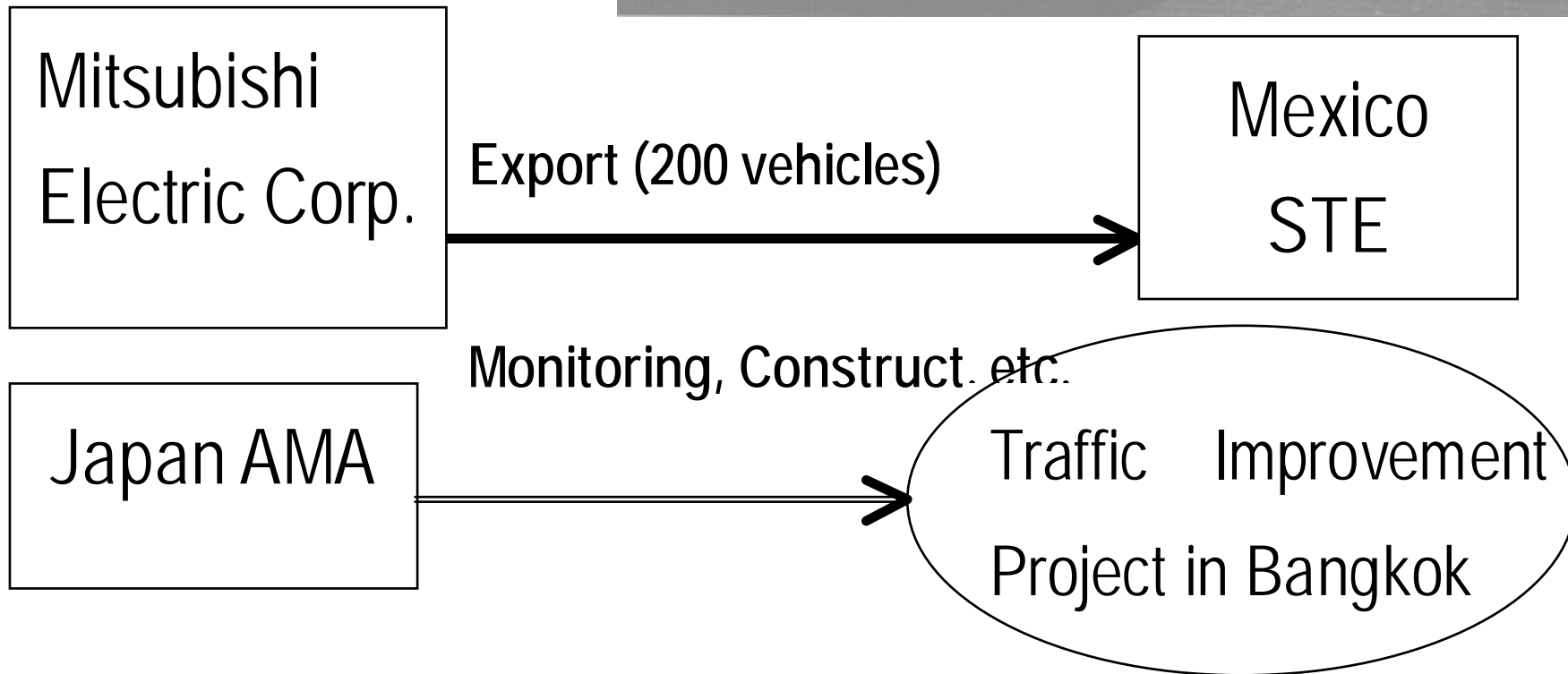
# The Concept of NEDO/Nikken Bio-Factory



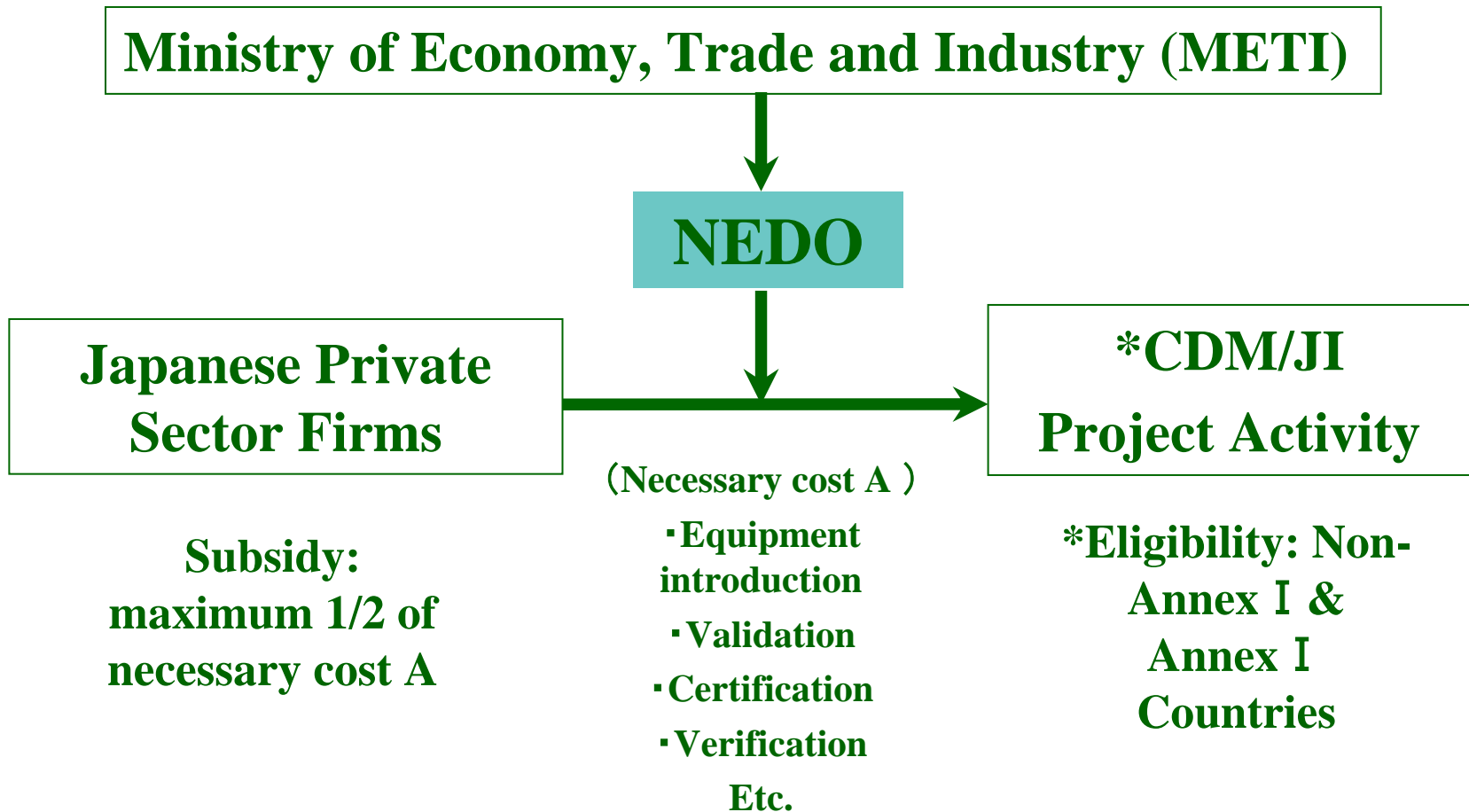
# 1. NEDO's F/S on CDM/JI Projects in 47 Countries (FY1998-2004)



# Projects With Industries In Mexico and Thailand



## 2. Subsidy System for CDM/JI Project Activities



# 3. Capacity Building on CDM

**CDM Workshop (China), Sept. 2004**

**CDM Training Course (Japan), June - Aug. 2004**

**CDM Manuals (Vietnam and Thailand), 2003 – 04**

**CDM Technology Needs Assessment (Philippines),**

**Dec. 2003 - Mar. 2004**

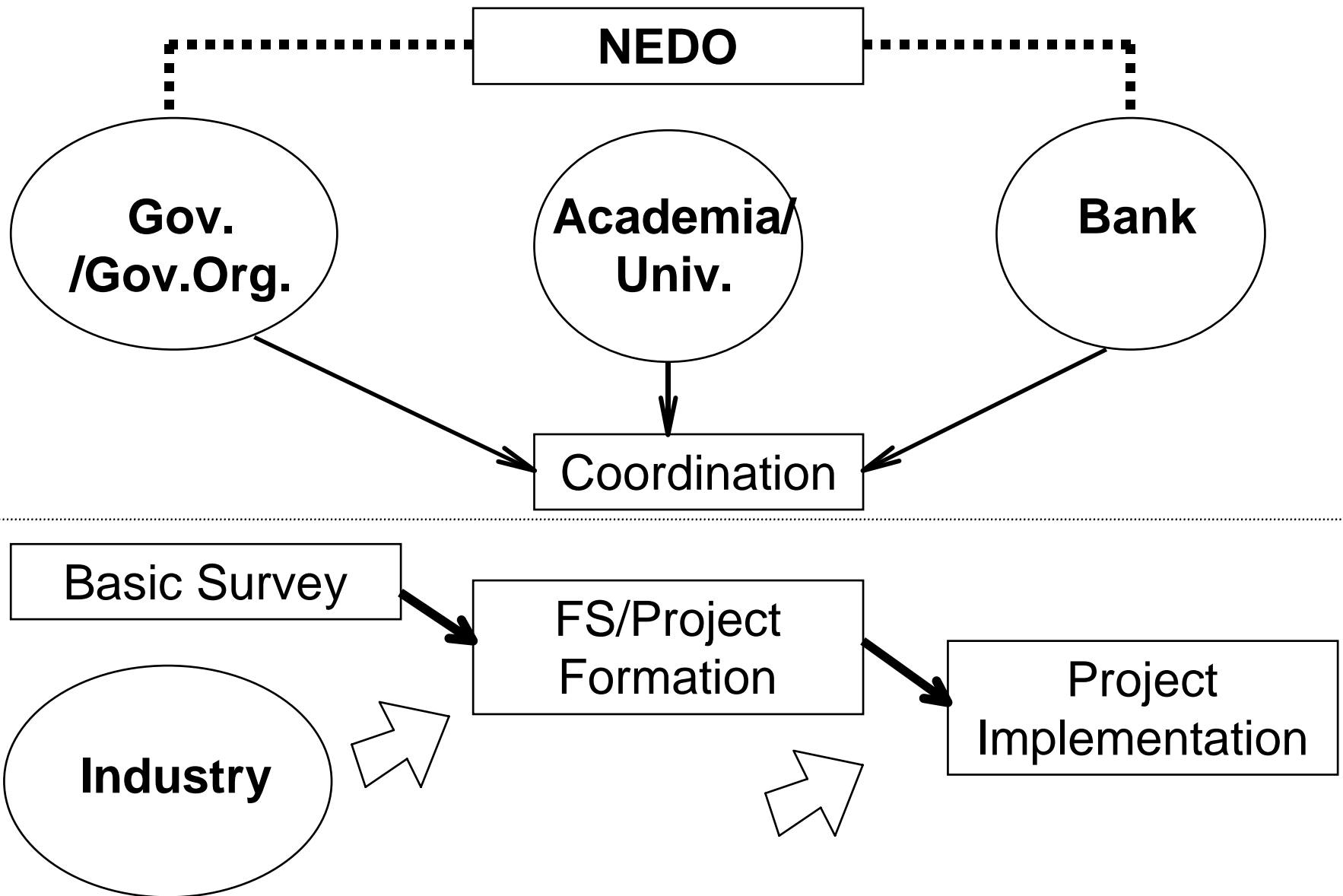
**CDM Training Course (Japan), June - Aug. 2003**

**CDM Seminar (Thailand), Mar. 2003**

**Japan-ASEAN CDM Seminar (Indonesia),**

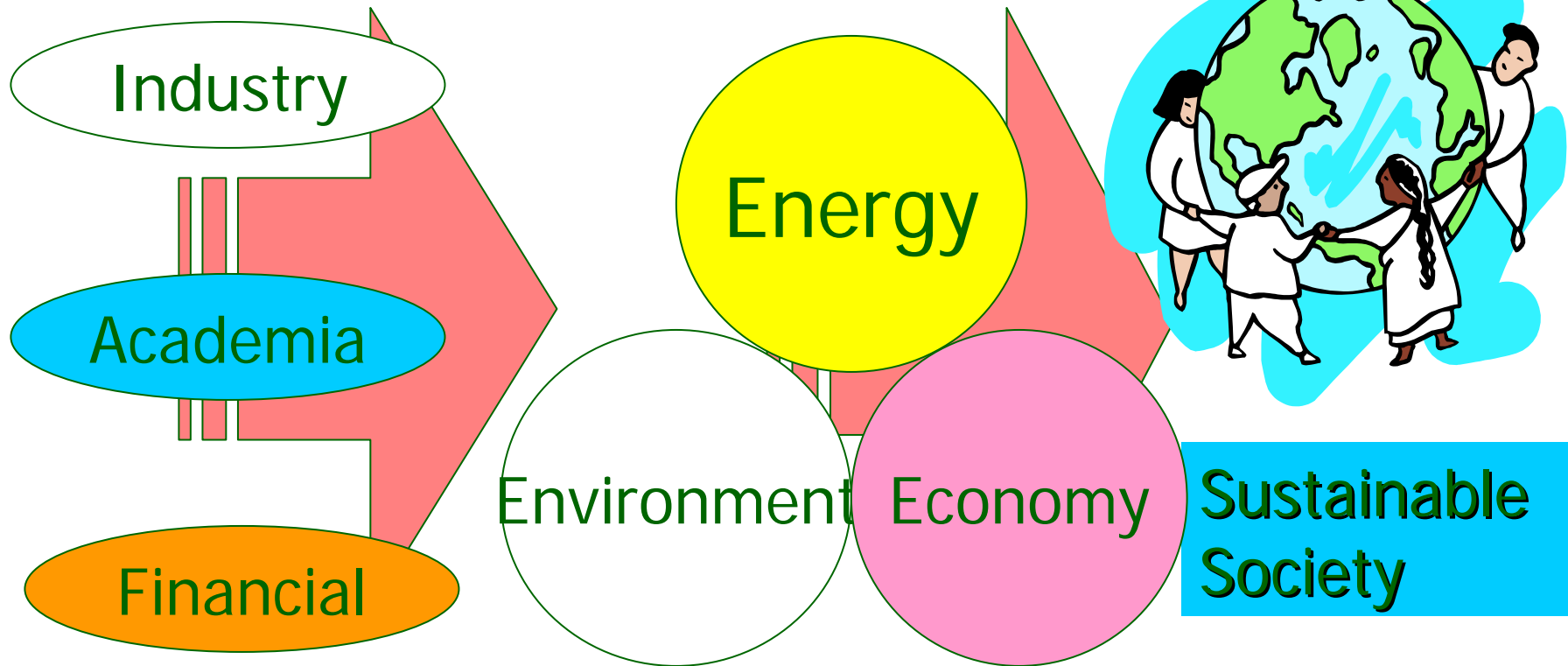
**Jan. 2003**

# ***NEDO as “Tool Box for Energy & Environment”***



# For Our Common Future

Gov. Initiative with 3Players for 3E



# *Thank you for your attention.*

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