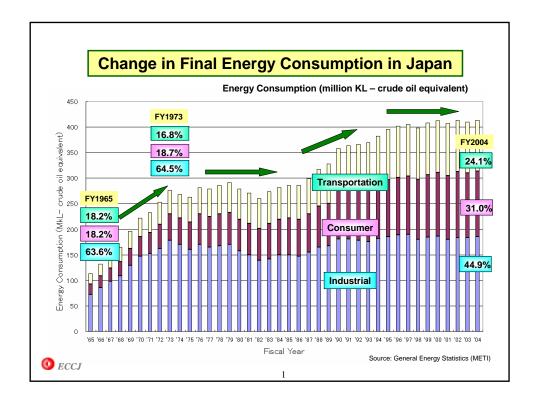
Japan's International Cooperation for Energy Efficiency & Conservation in Asian Region

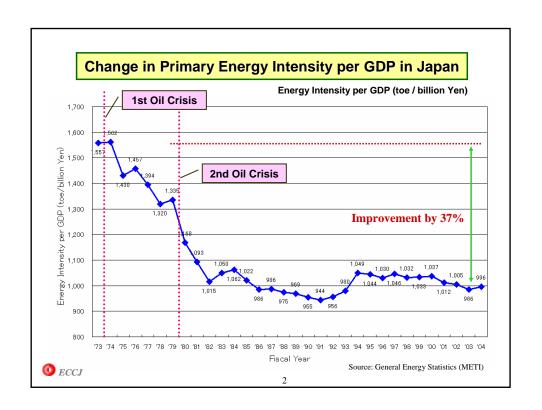
2008 Northeast Asia International Conference for Economic Development in Niigata January 22nd 2008

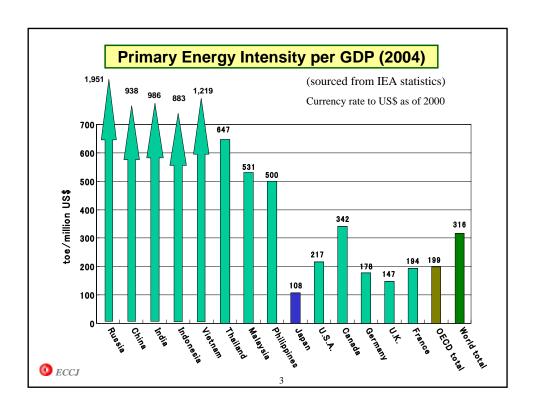
Takeshi Sekiyama

The Energy Conservation Center, Japan
(ECCJ)

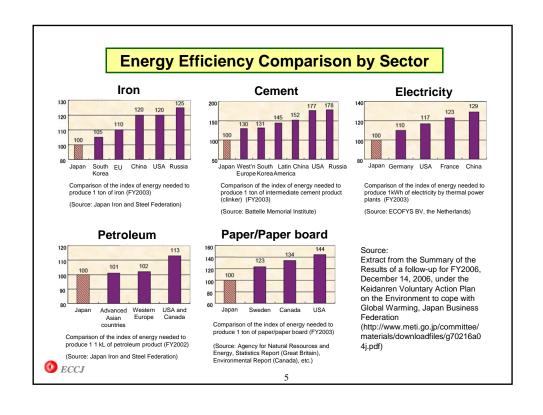
O ECCJ

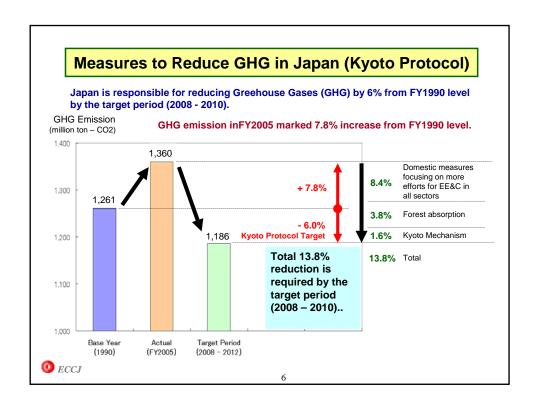


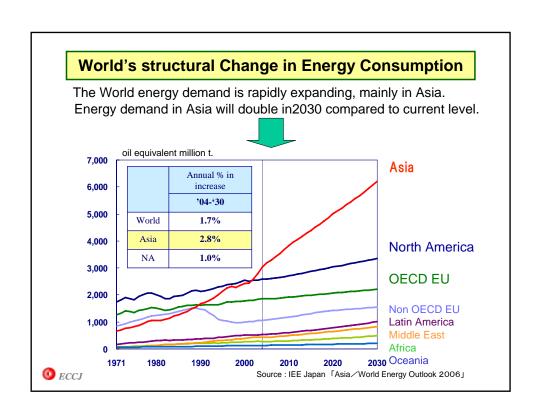


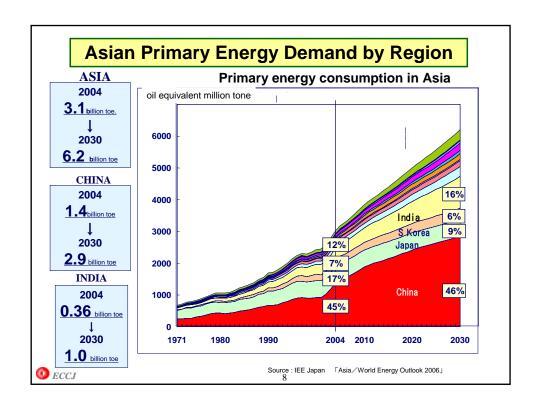


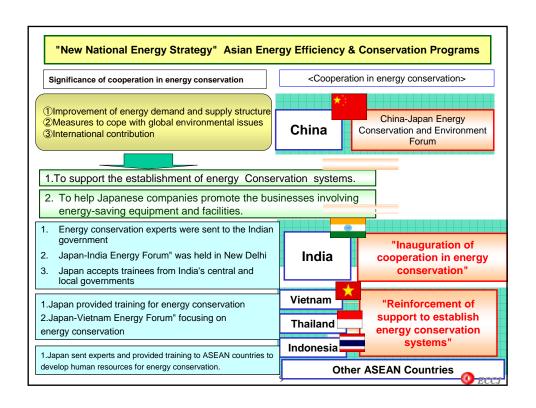
Effect of Measures and Dissemination Rate of Typical Equipment for Energy Conservation in Japan			
	nproved Energy Itensity (94/73)	Typical Energy Conservation Equipment	Dissemination Rate as of 1998
Iron & Steel		Continuous Caster (CC)	100 %
	81 %	Top gas pressure Recovery Turbine of blast furnace (TR	
		Coke Dry Quenching (CDQ)	91 %
Petrochemic	cal 58 %	High-efficiency naphtha cracking reactor	100 %
		High efficiency compressor	100 %
		Gas turbine	100 %
Cement	65 %	SP, NSP kiln (Heat recover	y) 100 %
Paper & Pulp	61 %	Continuous digester	100 %
			Source: ECCJ
ECCJ		4	











East Asia Summit

The 2nd East Summit was convened in Cebu, the Philippines on January 15,2007.

The Leaders signed the Cebu Declaration on East Asian Energy Security, where they agreed to set individual goals and formulate action plans voluntarily for improving energy efficiency, and take concrete action toward improving efficiency and conservation.

Besides they welcomed Japan's Energy Cooperation Initiative proposed by Prime Minister Abe.

Japan's Energy Cooperation Initiative:

- Promotion of energy efficiency & conservation
- Promotion of bioenergy
- Clean use of coal
- Energy for Poverty Eradicaiton

Promotion of energy efficiency & conservation:

- Receive 1,000 trainees from EAS countries and dispatch 500 experts to EAS countries in 5 years.
- (2) Set up the Asia Energy Conservation Collaboration Center as a one-stop window for information on energy conservation.
- (3) Positively use yen loans and the JBIC's investment financing.



Status of Implementation (ECCJ):

- (1)-a: 346 trainees have been received. (as of December 2007)
- (1)-b: 91 experts have been dispatched. (as of December 2007)
- (2) The Asia Energy Conservation Collaboration Center has already been set up within ECCJ and started its operation in April 2007. Website:

http://www.asiaeec-col.eccj.or.jp



ECCJ

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Recent Movement of Japan–China Cooperation on Energy Conservation and Environment

May 2006 inTokyo: Japan-China Energy Conservation and Environment Forum was held by the government and private sectors, 850 (550 Japanese & 300 Chinese)

April 2007 in Tokyo: First Policy Dialogue between Minister Akira Amari of METI and Chief Ma Kai of Chinese NDRC

· Japan-China Energy Conservation and Environmental Business Promotion Model Project

•To provide energy conservation policy education and training program to train about 300 trainees from government agencies over the next three years



Japanese Economy, Trade and Industry Minister Akira Amari and Chinese National Development and Reform Commission Chairman Ma Kai





A seen of 1st policy dialogue between

Sep. 2007 in Beijing: The 2nd China-Japan Comprehensive Energy Conservation and Environment Forum was hold.



2nd Japan-China Energy Conservation and **Environment Forum**

- Sep. 2007 2nd Forum was held at BEJIN
- Japanese Minister Amari and Chinese Bi-Prime Minister SO Bien, Ma Gwi NDRP chief and about 1000 personnel from business attended.
- 10 Projects were identified to proceed



(1) Japan-China Energy- Environment Promotion Model Project
①Technical Improvement on Energy Conservation and Environment
Assessment for Coal Fire Power Station. (Japan Coal Center and JBIC)

2 Improvement Project on Energy Conservation for Textile Factory (Kyusyu Electric Power Corp. etc.

Minister AMARI speeches at 2nd Japan China Forum

(Kyusyu Electric Power Corp. etc.)

3 Sewage Disposal,City Waist, and Bio-mass Utilization as Energy (Nikki Corp. etc.)

4 Model project for Energy Conservation of electrical system and Utilization of Excess Heat and pressure at YUEN Steel and Chemical Industry. (Hitachi Corp., Hitachi China, etc.)

5 Research of facility net work for energy conservation and environment and its application trial. (Matsushita)

(2) Other Cooperation Agreement

© Promotion of cooperation on Japanese and Chinese Sustainable City (Japan:Kitakyushu city)
© Establishment of joint company to make power generator by exhaust heat (Japan: Kawasaki Plant System)
© Financial system for energy conservation and environmental improvement (Japan: JBIC, Mizuho Corp.,China bank) ④ Promotion of cooperation on Japan Chemical Industry Association and China Petroleum Chemical Industry Association (Japan:Japan Chemical Industry Association)

(5) Agreement on Cooperation Between Japanese ESCO Promotion Association and China ESCO Association (Japanese : ESCO Promotion Association)

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Cooperation Scheme through ECCJ JICA: Japan International Cooperation Agency AOTS: The Association for Overseas Technical Scholarship ECCJ: The Energy Conservation Center Japan **Foreign Governments** JODC: Japan Overseas Development Corporation JETRO: Japan External Trade Organization NEDO: New Energy and Industrial Technology Develop Request Widespread of Energy Conservation **Human Development ECCJ** JICA Japanese International **AOTS** Government **JODC** Cooperation **ODA Scheme ECCJ** Other **Organizations JETRO** METI Scheme **NEDO Hard Ware Development** 0 ECCJ 13



Fundamental Framework of ECCJ's Activities for International Cooperation

<Policy Proposal>

- *Investigation of policy regarding energy and energy conservation.
- *Potential survey and feasibility study on energy conservation and reduction of GHG emission.

<Capacity-Building>

- *Training course in Japan and abroad.
- *Dispatching experts to overseas for seminars, workshops, etc.

<Technical Cooperation>

- *Factory audit and improving advise through field activities including plant survey, energy conservation audit, etc.
- *Cooperation and support for establishment and operation of EE&C Centers or such organizations.

<Asia EE&C Collaboration Center> ---- New !!

*One-stop answering service for inquiries related to EE&C.

*Information service concerning EE&C activities.



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ECCJ's Training Programs for EE&C in Japan



Program Participants



Lecture and Discussion



Trainees' Presentaions of their country reports



On-site Training at energy-efficient Factory

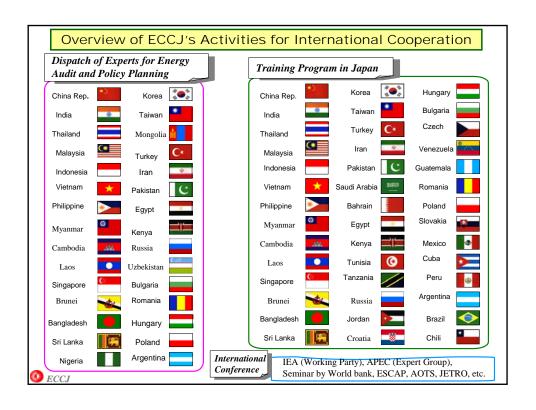


On-site Training at energy-efficient Building



On-site Training at awarded Store of appliances





ASEAN's Plan of ACTION for Energy Cooperation in 2004 - 2009 **Six Energy Program Areas in ASEAN** Trans-ASEAN Gas Pipeline

ASEAN Power Grid Coal Energy Efficiency and Conservation New & Renewable Sources of Energy Regional Energy Policy and Planning

Promotion of Energy Efficiency and Conservation (PROMEEC)

Started in the year 2000 Three sub-projects namely:

PROMEEC – Major Industries PROMEEC – Buildings

PROMEEC - Energy Management (launched 2004)

Projects are jointly implemented by Japanese Government through ECCJ and ASEAN through EE&C-SSN (Sub-sector Network) under coordination of ACE (ASEAN Center for Energy)

O ECCJ

PROMEEC (Promotion for Energy Efficiency and Conservation)

- Project developed based on programmed approach for EE&C in ASEAN -

Japanese government's (METI's) scheme to provide financial supports and dispatch experts to ASEAN 10 countries for Energy Audit and Seminar/Workshop, which are jointly organized by EE&C-SSN, ACE and ECCJ.

Promotion of EE&C in Industry & Building

- Follow-up investigation for awareness enhancement and dissemination of realised recommendations including consultation for further improvement
- 2. Development of Database/Benchmark/Guideline of EE&C
- 3. Development of Directory of EE&C Technologies (Including introduction of the successful cases)

Energy Management

Activities to establish Energy Management System for ASEAN through co-work of ASEAN Working Team and Japanese Experts

- 1. Analyzing recommendations (Industry / Building) related to the Energy Management
- 2. Information Exchange and Identification of Barriers / Countermeasures in each Country
- 3. Building Concept of ASEAN Energy Management System for ASEAN countries
- 4. Development of programs and tools of the ASEAN Energy Management System (including utilizing the existing facilities in ASEAN)



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PROMEEC- Industry: Seminar & Workshops and On-the-Job-Training



Seminar & Workshop 24 Nov 2006, Myanmar



Energy Audit – Iron & Steel Industry, Thailand



Energy Audit – Cement Industry, Myanmar



Energy Audit - Oil Refinery, Myanmar

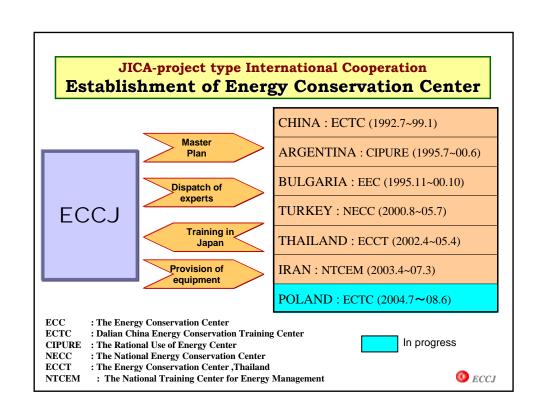


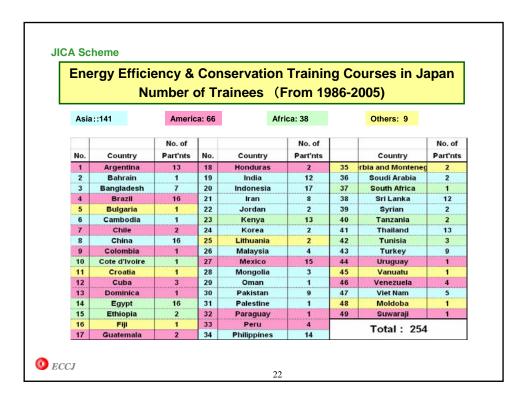
Energy Audit – Cement Industry, Lao PDR

O ECCJ



Seminar & Workshop 10 November 2006 HCMC Vietnam







the following internet home pages at:

ECCJ's HP ---- http://www.eccj.or.jp/index_e.html AEEC's HP ---- http://www.asiaeec-col.eccj.or.jp

The Energy Conservation Center, Japan (ECCJ)

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