

**Summary Workshop
PROMOTION OF ENERGY EFFICIENCY AND CONSERVATION
SOME-METI WORK PROGRAMME 2006-2007**

Major Industry Proposed Plan in 2007-2008



February 27-28, 2007

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1. Outline of Phase-1 & -2 Activities

Country Industry	Brunei	Cambodia	Indonesia	Lao PDR	Malaysia	Myanmar	Philippine	Singapore	Thailand	Vietnam
1. Country Condition										
- Area (km ²)	5,765	181,000	1,890,000	240,000	330,000	680,000	299,404	699	514,000	329,241
- Population (x10 ³)	350/'03	13,500/'02	215,000/'00	5,609/'05	25,580/'04	52,170/'02	81,500/'03	4,240/'04	61,970/'04	82,060/'04
- GDP(US\$) per capita	13,418/'03	291/'02	954/'03	402/'03-04	4,372/'04	180/'03	1,050/'03	25,191/'04	2,236/'03	483/'04
2. Industry & Time of Energy Audit										
(1) Cement	2000 2005			Oct. 2006		Nov. 2006				
(2) Textile					2000					
(3) Pulp / Paper			2001 2005							
(4) Oil Refining						2001 Nov. 2006				
(5) Ceramics / Porcelain										2001
(6) Hydropower				2001						
(7) Garment		2002 2005								
(8) Iron & Steel							2002 2005		Nov. 2006	
(9) Food								2003 N. 24 ~ 28 J. 12 ~ 15		
(10) Chemical (Caustic Soda)									2003 D. 1 ~ 5, '03 J. 6 ~ 9, '04	

2. Basic Direction for 2007-2008

1. **Enhanced OJT**

- Well-organized Local (ASEAN) Team for Energy Audit & Workshop
- Well-prepared Activity (Required Data for Survey, etc)

2. Effort to Understand Basic **Knowledge on Industrial Processes**

3. Outline of Main Activities in FY2007

1. Follow-up survey / Energy Audit / Workshop under Enhanced OJT at 3 Countries (max):

(Purpose) Enhanced implementation & dissemination of improvements

Country A - Industry 1

Country B - Industry 2

Country C - Industry 3

- As a rule, one country one industry. Audit place should be conveniently within or near the capital city for saving of time.
- Industry is to be proposed, but preferably selected from rather light industry, for example, textile, food, ceramics and plastics.

2. Preparation of “Technical Directory for major industry”

(Joint activity with ACE)

- Successful cases resulted from PROMEEC activities should be registered.
- Revise web-page so that readers can access more easily to the subjects.

3. Discussion and study to develop **In-house Database** including Benchmark / Guideline for individual industries

- Strengthen PR activity on every opportunity so as to make industry recognize a significance of DB/BM/GL

4. Implementation Schedule (Plan)

PROMEEC (Industry) for 2007-2008: Basic Implementation Plan													
- Implementation Schedule -												(Preliminary)	
ECCJ February 27-28, 2007													
Year		2007										2008	
Activities	Month	4	5	6	7	8	9	10	11	12	1	2	3
(1)	Inception Workshop Preparation of Detailed Implementation Plan & Preparation												
		Inception W/S											
(2)	1st Site Activity (Follow-up Survey & Workshop (2 Countries))												
					Two Countries								
(3)	Results / Preparation for 2nd Site												
(4)	2nd Site Activity (Follow-up Survey & Workshop (1 Country))												
(5)	Analyses of 2nd Site Activity Results / Preparation for 3rd Site Activity												
(6)	3rd Site Activity (S & P-Workshop), TD dissemination & DB/BM/GL formulation)												
(7)	Report Writing												

5. Activities (1/5)

(1) Preparatory Work

- ACE :** - Development of Detailed Implementation Plan
- +ASEAN** - Arrangement / Preparation for Site Activity
 - a. Factory appointment :
Ahead of time! **(at least two month)**
 - b. Organization of Audit Team
Team members should be more than 5 persons, and nominate the leader and define each member's role.
- Preparation for Seminar-Workshop
Venue Arrangement, Participant Recruiting & Presentation Documents, etc.
- Check of previous activity report and its delivery to audit team
- Audit team members : Self study and prepare actively **(especially process principle)**
- Questionnaire Delivery and Collection of Answers **(submission of proper answer within defined time)**
- ECCJ:** - Preparation of Questionnaire, Required Data/ and Information, etc. **(simplify questions)**

Activities (2/5)

(2) 1st & 2nd Site Activities: 1 week activity per country

1) Audit Survey: Follow up : max 2 factories/country (new audit : 1 factory/country)

Purpose: Survey on the actual status of implementation for the improvement items recommended by ECCJ

- Factory(ies) audited in the PROMEEC Project (Must)**
- Factory(ies) where EE&C technologies and practices are realized and can show successful results**

All audits should be done by “Audit team of host country”, and ECCJ will support their activities.

Document preparation for presentation by audit team or factory audited.

**ECCJ Team: 2~3 members at each time
(Leader + Technical experts)**

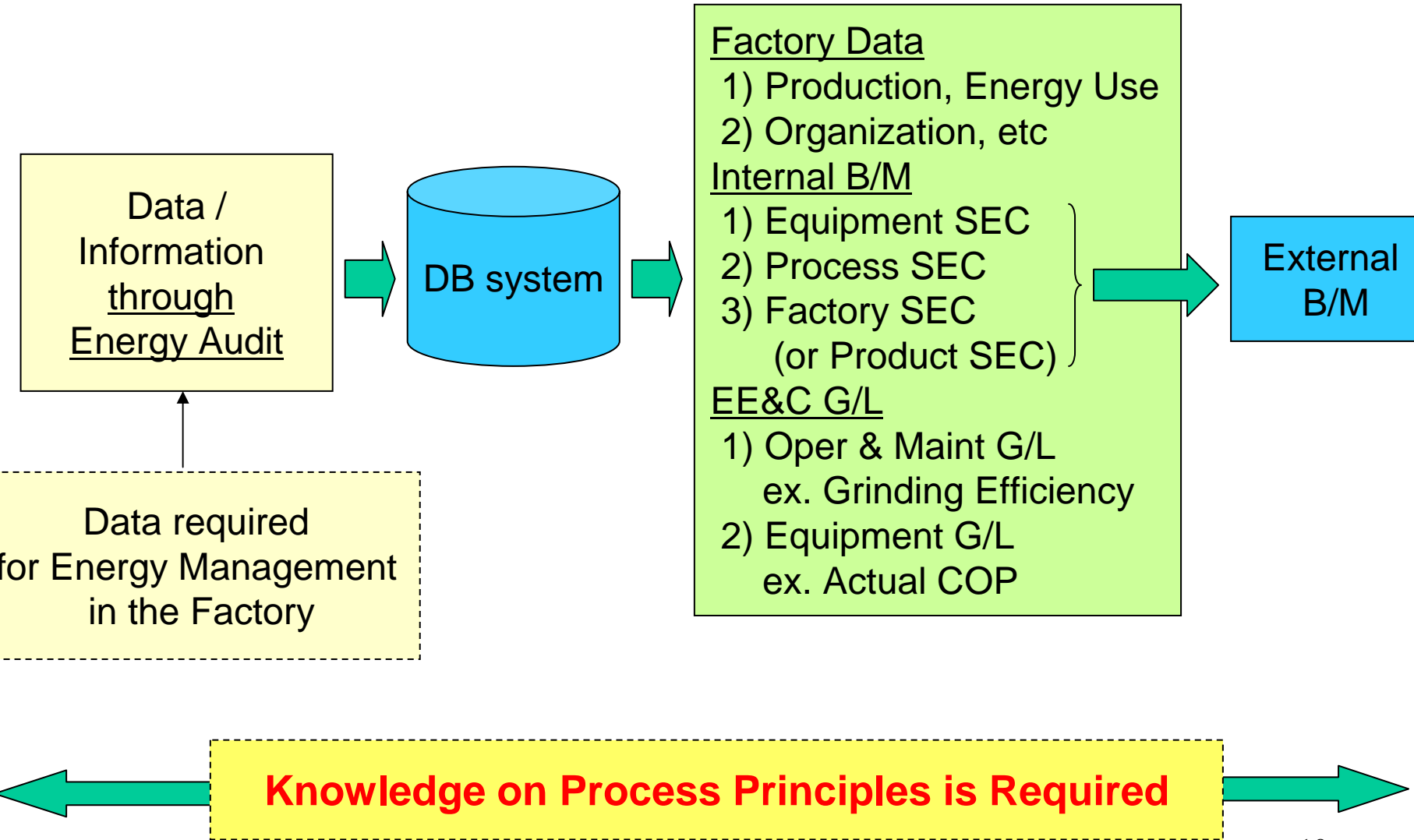
Activities (3/5)

2) Seminar-Workshop: 1 day (5th working day) at each country

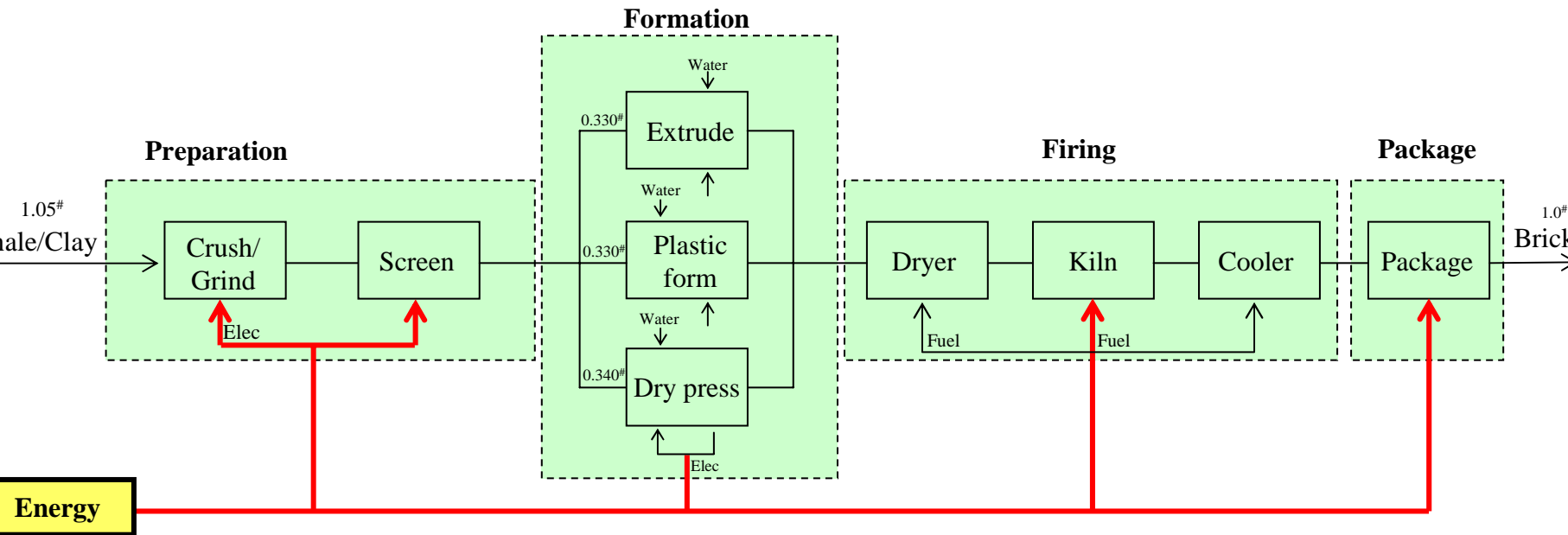
- Confirmation of the results of above Follow-up Survey
- Presentations of activities to implement/disseminate the recommendations (**2~3 presentations by host country and one each by invited 3 other countries on 3 other industries**) (PPT documents written in English are desirable.)
- Discussion of Barriers and Measures for dissemination of recommended technologies and practice
- Discussion of Development of “Technical Directory” (Contents and work assignment, etc.) and “**In-house DB**, BM, GL”
- Participant list preparation!

(3) Analysis of Site Activity Results and Additional Preparation of “Technical Directory”: 3 Countries and ECCJ

In-house Database



Ceramic - Brick



Base unit for energy balance : ton of brick

		Preparation		Formation	Firing			Package
		Crush/Grind	Screen	Extrude/Plastic/Press	Dryer	Kiln	Cooler	Package
Feed	Clay	○						
	Shale	○						
Product	Brick							○
Energy	Fuel (toe)					○	○	
	Steam (toe)							
	Elec (10 ³ kwh)	○		○				

Activities (4/5)

(4) Follow-up of Activity in 3 Countries

- Advice on EE&C implementation and dissemination
- Reviewing of “Technical Directory”

(5) 3rd Site Activity

1) Summary Workshop: Half day for Industry

Participants from all the ASEAN countries and ECCJ at 1 country

- Presentation of Summary of Local Activities:
Results of Follow-up Surveys at **3 Countries** and status of implementation & dissemination, etc. (ECCJ)
- Discussion of Possible Measures for smooth dissemination of recommended technologies and practice
- Presentation of prepared “Technical Directory” and “In-house DB, BM, GL” (AESAN **3 Countries**)
- Presentation and discussion of future plan (ECCJ)

Activities (5/5)

2) Post Workshop: Following day of Summary Workshop & Half day

Participants from all the ASEAN countries and ECCJ

- Explanation/Confirmation of results of project activities and achievement (ECCJ)**
- Confirmation of future plan**

(6) Preparation of “Report” to be submitted to METI (ECCJ)

After translation in English, this report will be sent to ACE, then to ASEAN countries.



Thank You



The Energy Conservation Center, Japan¹⁴