

Action Plan / Final Report for CTI 6th Workshop for Asia in 2003 at ICETT

1. Energy Saving

6 th Workshop (Oct. - Nov. 2003)						Follow-up Survey (Jan. - Feb. 2004)	
Main Theme	Contents	Duration	Implementing Agency	Cooperating Agencies	Source of Fund	Progress	Future Prospects
Government Legal Framework and measures for promoting Energy Efficiency & Conservation							
Regulation for Factories	<p>All factories</p> <ul style="list-style-type: none"> Report to Ministry of Industry (MOI)/ Provincial Industrial Department and Statistical Authority the annual energy consumption. Stimulate application appropriate measures for rational and efficient use of energy. 	Started 2004	Ministry of Industry (MoI)	Provincial Industrial Department	Subject for sponsor		
	<p>Designated Factories</p> <ul style="list-style-type: none"> Nominate energy manager Follow instructions guidance and order of MOI. Penalty for not conforming to regulation and order 	Started 2004	Ministry of Industry (MoI)	Provincial Industrial Department			

Regulation for Buildings	<p>For Designated Buildings</p> <ul style="list-style-type: none"> • Set up Standards, instructions, guidance of Ministry of Construction for Buildings, • Submit the design and report on Energy Efficiency & Conservation Assessment of the building project for approval. • Advices from MOC for appropriate measures to be applied • Audit energy consumption • Market governing rules, not compulsory measures 	Started 2005	Ministry of Construction (MoC)	Ministry of Industry (MOI)			
Regulation for Equipment and Facilities	<ul style="list-style-type: none"> • Setting up Minimum Energy Performance Standards for each group of selected electric devices, equipment and facilities. • Announcement of group of devices, equipment and/or Facilities must be discarded from the market yearly due to having low energy efficiency indexes. • Labeling Program (voluntary and the compulsory). • Strict control and Penalty for not conforming to the regulation and orders. 	Started 2005	For Standard Ministry of Science and Technology (MoST); For labeling Ministry of Industry (MoI)	ASEAN Energy Center (AEC); Standard Testing Centers			

Institutional Establishment and Capability Building	Ministry of Industry play a role of <i>Focal Coordinator</i>				Subject for sponsor		
	<p>Assign functions / responsibilities for Authorities concerned:</p> <ul style="list-style-type: none"> Ministries: Policy, Standards, Guidance, Rules appropriate for Factories, Buildings and Equipment. Control... Provincial People Committees: Local Control Others: Custom Offices, Statistical Authorities, Market Control, Branch Specific Inspectorates ... 	Started 2004	Ministry of Science and Technology, Ministry of Industry (MoI), Ministry of Construction (MoC)				
	Establish or nominate Authorized Auditing Agencies/ESCOs, periodically carry out energy audit to factories, Buildings, etc.	Started 2004	ESCO				
International Cooperation and Pilot Program							
Commercial Energy Efficiency Pilot Program	Provided training (Energy Audit, Energy Efficiency Project Appraisal, Financial Management, Administration, etc) for Project Agents (EE Suppliers), Financial Providers (Bank), End-use, Project Management Board, etc.	2004-2007	Ministry of Industry (MoI)	Projects Agents, Internal Banks, WB	GEF/WB		

	Program Marketing for Energy Efficiency (Including Training, Free Energy Audit, Financial Incentive – Sub-grant)						
	Program Monitoring and Tracking.						
ASEAN Cooperation on Energy Efficiency	Energy Efficiency Standard and Labeling: Motor, Lighting, Magnetic Ballast, Air-Conditioners and Refrigerator.	2003-2007	Ministry of Industry (MoI)	ASEAN Energy Center (AEC)	EU and other External Sponsor		
	<ul style="list-style-type: none"> • Competition for Best Practical Building and Factory in ASEAN member countries. • Energy Audit for Building and Factory in ASEAN member countries. • ASEAN Building Benchmarking. 	2004-2007	Ministry of Industry (MoI)	ASEAN Energy Center (AEC), ECCJ (Japan)	ASEAN Energy Center and Japan		

2. Cleaner production (CP)

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Main Theme	Contents	Duration	Implementing Agency	Cooperating Agencies	Source of Fund	Progress	Future Prospects
Promotion of CP in VINAPIMEX	1. Develop CP to become a program of environmental management: an expanding strategy.	2004-2005	VINAPIMEX All paper Co	VNCP center/ NIEM/UNEP	Paper Mills		
	1.1 <i>Consolidate existing CP:</i> - Systematize CP work: Each mill plans CP action plan itself. -Record results fully periodically. - Assessment CP.		Baibang Co. Tan Mai Co. Dongnai Co. Viet Tri Co. Hoang Van Thu Co.		Paper Mills		
	1.2 <i>Expand CP to the rest mills:</i> CP team, Audit Water, Audit Energy...		Binhan Co. Van Diem mill		Papers Mills/ Government		
	2. Training CP human resource: a continuous strategy	2004-2007	VINAPIMEX	VNCP center	Donors		
	2.1 <i>Sending to CP center:</i> - Engineers, managers. - Make a core human resource in CP.		Paper Mills	CP center/ UNDP/ UNIDO	UNIDO/ UNEP/ SIDA/NIR		
	2.2 <i>Training on-site:</i> - Practice on line (at mill). - Use the core human resource training the rest of CP team and workers.		Paper Mills	Mills	Paper Mills		
	2.3 <i>Seminar:</i> - Internal mill. - External mill. - International seminar.		Paper Mills VINAPIMEX Abroad	NIR/ SIDA/ ICETT	Paper Mills/ Donors/ NEDO/		

	3. Explore CP potential: a long-term strategy	On-going	Paper Mills	Paper Mills			
	3.1 <i>Housekeeping: a useful way for SMEs.</i> - At right schedule of maintenance. - Find out early reason affecting breakdown.. - ...		Paper Mills	Paper Mills	Paper mills		
	3.2 <i>Recycling: a potential strategy.</i> - Closed water system to reduce effluent loading. - Recovery boiler to reuse chemical and saving energy. Simultaneously reduce toxic in effluent. - Bark, residue of chipping, sludge from sedimentation can burn in incinerator to save energy.		Paper Mills	Researchers. Consultants, Equipment Suppliers	Paper Mills/		
	3.3 <i>Modification of product:</i> A product strategy to produce a friendly environmental product: - Increase the rate of recycling paper. - Non using Chlorine element in bleaching pulp (ECF) - Explore raw material from agro by product: rice straw, bagasse...		Paper Research Institute/ Paper Mills/ Paper Raw material Research Institute	VINAPIMEX, Consultants, Suppliers.	Government Fund / Supplier Agencies		
	4. Improve system of existing environment treatment and innovation process line.	On-going	Paper Mills	Consultants organizations	Donors/NEDO/ ODA/...		

3. Clean Development Mechanism (CDM)

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Main Theme	Contents	Duration	Implementing Agency	Cooperating Agencies	Source of Fund	Progress	Future Prospects
Training course, workshop and capacity building	Improvement of knowledge for local area, industries sector, managements on CDM	On going	MOI	ICETT...	Donor (ICETT)		
	Assessment potential Vietnam Project (GHGs, CDMs, evaluate emission gas of Industries sectors...)	On going	Institute Energy				
	Set up focus team in core – group in order to : 1. CDM awareness raising (training, workshop if have fund) 2. Establishing Framework for CDM 3. Institutional set up 4. Formulating and developing CDM potential projects 5. International cooperation 6. Survey	2005	MOI	ICETT ???	ICETT ???		