

 A presentation at the ABCDE: ASEAN-EU Energy Cooperation Networking for Private Sector, 11-13 July 2006, Brussels, Belgium.



Introduction

- **ASEAN**, one of the most dynamic economic regions of the world.
- A heterogeneous mix of economies with greatly varying energy resource endowment and energy development situation.
- In spite of these differences, the ten (10)
 ASEAN countries have common aspirations in achieving the Goals of Sustainable Energy
 Development and particularly, Utilization.

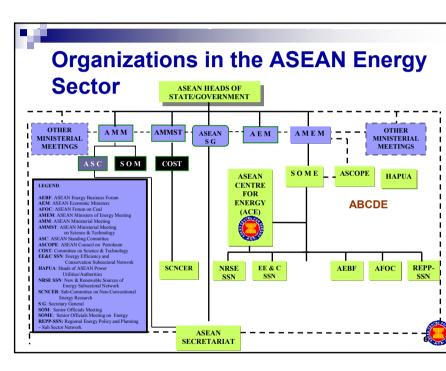
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Economic Profile

- ASEAN grew 6.2 per cent GDP in 2004 and 5.7 per cent in 2006
- While 6.6 per cent GDP growth for Asia in 2006
- Due to export growth and FDI expansion, including continued growth of China and India.

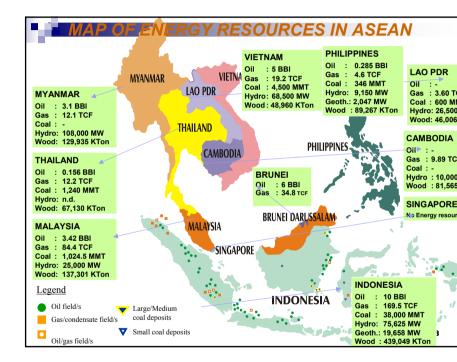
ABOUT ACE

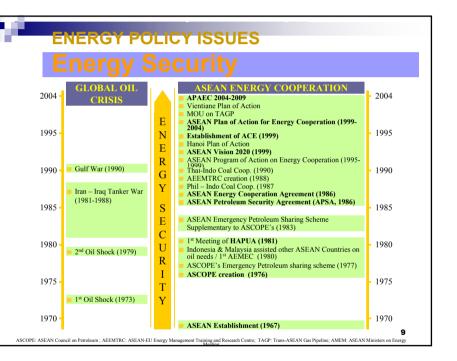
- Established on January 1, 1999 as an Inter-Governmental Organization, guided by a Governing Council composed of Senior Officials on Energy (SOE Leaders) of the ASEAN countries.
- Core funding Energy Endowment Fund from equal contributions of ten (10) Member Countries, managed by fund manager of ASEAN Secretariat
- ACE as a catalyst for economic growth and development of ASEAN by initiating, coordinating, facilitating and disseminating all energy activities to the region and the rest of the world.



ASEAN Vision 2020

..."establish Interconnecting Arrangements in the field of energy utilities for Electricity, Natural Gas and water within ASEAN through the ASEAN Power Grid and Trans-ASEAN Gas Pipeline, and promote cooperation in Coal Trade, Energy Efficiency and Conservation, as well as the development of New and Renewable Energy resources."





ENERGY PROFILE ASEAN ENERGY MIX 1990-2010 (%)

Fuel Type	1990	1995	2000	2005	2010
Natural Gas	18.8	22.3	26.5	30.9	32.0
Coal	9.2	9.9	11.2	12.4	14.5
Oil	65.5	60.6	54.1	48.9	44.4
Hydro	5.6	6.1	7.0	6.9	8.3
Others	1.0	1.1	1.2	1.0	0.8
Total	100.0	100.0	100.0	100.0	100.0
					10

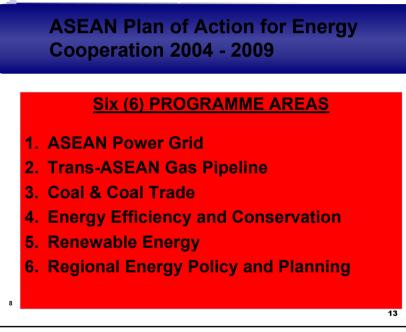
ASEAN Plan of Actions for Energy Cooperation (APAEC) 2004-2009

directed to the following approaches:

- Strengthen coordination/participation in all programme areas to narrow development gap among ASEAN member countries;
- Encourage a conducive environment for greater private sector involvement and participation, including securing foreign direct investment;
- Enhance human resources and capacity building skills;
- Develop and expand the energy mix and supply source through utilization of full energy potential of the region to include frontier exploration and development and extensive research on oil, natural gas, coal, hydropower, geothermal, EE & C and NRSE;
- Develop transparent legal, regulatory and technical frameworks in various energy projects, in particular on the cross border interconnection projects *e.g. APG* and TAGP.

Multilateral Cooperation for APAEC 2004-2009

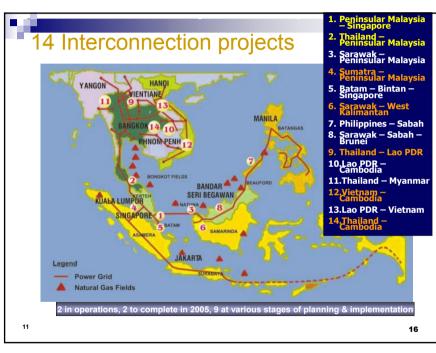
- ASEAN + US; ASEAN + Canada
- ASEAN + EU Cooperation
- ASEAN + China Cooperation
- ASEAN + Japan Cooperation
- ASEAN + 3 Cooperation
- ASEAN + Australia Cooperation
- ASEAN + Energy Charter Secretariat
- Initiative for ASEAN Integration (IAI)
- ASEAN + India Cooperation
- East Asian Dialogue



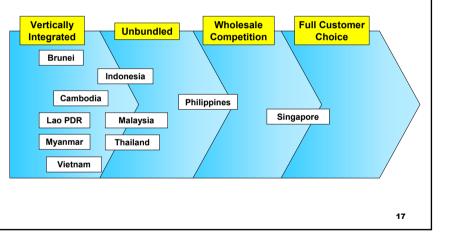
1. ASEAN Power Grid

Strategies	Programmes/Projects
1. Develop the ASEAN Power Grid	 Vietnam – Cambodia (2005-2007)
Interconnection	 Thailand – Cambodia (2007)
	 Peninsular Malaysia – Sumatra (2009)
	 Sarawak - West Kalimantan (2009)
	 Thailand - Lao PDR (2009)
	 Sarawak – Peninsular Malaysia (bey 2009)
	 Batam - Bintan - Singapore – Johor (bey
	2009)
	 Philippines – Sabah (bey. 2009)
	 Sarawak - Sabah - Brunei D. (bey. 2009)
	 Lao PDR – Vietnam (bey. 2009)
	 Thailand – Myanmar (bey. 2009)
	 Lao PDR – Cambodia (bey. 2009)
2. Optimization of the generation sector vis-à-vis indigenous	✤ Further optimize the AIMS result
resources	14

ower Grid
Programmes/Projects
 Conduct F/S on identified inter- connections
 Conduct studies on Policy, Regulatory, Legal, Financial and Commercial framework

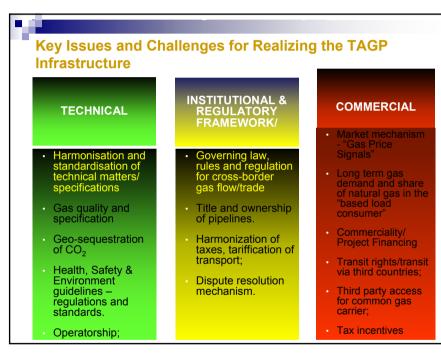


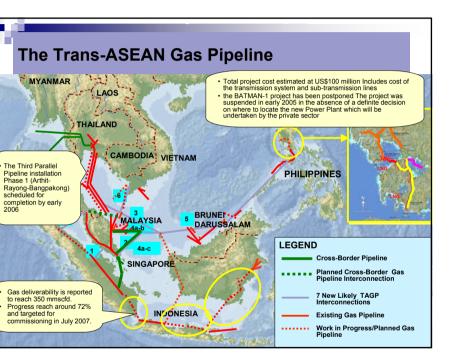
Moving Towards Consumer Economy



2. Trans-ASEAN Gas Pipeline **STRATEGIES PROGRAMMES/PROJECTS** 1. Implement the Memorandum of Operationalisation of the MOU on TAGP Understanding (MOU) on the TAGP * Formal establishment of the AGCC 2. PERTAMINA and PSC partners to undertake * Commission of Feasibility Study Initiative detailed feasibility study for East Natuna gas field development 3. Implement the Trans-ASEAN Gas Pipeline Eight (8) gas interconnection projects: Infrastructure per the approved roadmap on 1. South Sumatera, Indonesia – P. Malaysia the TAGP 2. W. Natuna, Indonesia – Duyong, Malaysia ✤ 3. E. Natuna. Indonesia – JDA – Erawan. Thailand ✤ 4a+4b E. Natuna – W. Natuna, Indonesia – Kerteh, Malaysia ♦ 4a+4b E. Natuna – W. Natuna, Indonesia – Singapore 5 E. Natuna, Indonesia – Brunei Darrusalam - Sabah, Malaysia - Palawan-Luzon, Philippines ✤ 6. Malaysia – Thailand JDA – Block B Vietnam 7. Pauh, Malaysia – Arun, Sumatra, Indonesia 18 8 East Kalimantan - Sahah - Philippines

STRATEGIES	PROGRAMMES/PROJECTS
ASCOPE Gas Centre (AGC) to	AGC Work Programme are as follows:
implement the approved 5- year Work Programme	 To support and encourage the production, utilization, distribution, marketing, and sale of natural gas.
	 To standardise technical specification for the Pipelines, such as design and construction standards, operation and maintenance guidelines, safety, environment and measurement standards which are internationally recognized by the oil and gas industry.
	To facilitate effective and stable contractual arrangements for the supply, distribution and transportation of natural gas including adherence to the open access principle as well as management of the pipelines in accordance with such internationally accepted standards in the petroleum industry.
	To recommend appropriate measure to ensure security and safety of the Pipelines and the uninterrupted flow of contracted natural gas for transmission through the Pipelines.
	To recommend measures to mitigate the risk and impact on the environment which the construction, operation, and maintenance of the Pipelines may pose to the community, property and environment.
	 To explore possible cooperation and coordination measures concerning further economic potential use of pipelines to be abandoned
	♦ Other initiatives may include R&D on CO2 sequestration, harmonization of standards & specifications, etc. 19





3. Coal

STRATEGIES	PROGRAMMES/PROJECTS
1. Strengthen Institutional and Policy Framework	 Provide assistance in Policy Reviews
2. Promote Clean Coal	✤ Organize seminars on CCT
Technology (CCT)	 Organize technical visits on CCT
	 Facilitate feasibility studies on CCT for
	Rural Electrification
	 Facilitate/organize technical training on
	CCT including Coal Bed Methane (CBM)
3. Promote Private	✤ Organize investment seminars
Sector Investments	 Facilitate feasibility studies on coal
	infrastructure projects and low rank coal
	projects 22

Coal

STRATEGIES	PROGRAMMES/PROJECTS
4. Promote Intra-ASEAN Coal Trade	 Update directories of coal specifications of consumers and producers Facilitate feasibility studies on establishing an ASEAN Coal Commodity Market OrganiZe coal market seminars
5. Promote Environmental Assessment of coal projects	 Provide assistance on Environmental Impact Assessment (EIA) of projects Organize seminars on environmental impact

Coal – Way Forward : AFOC

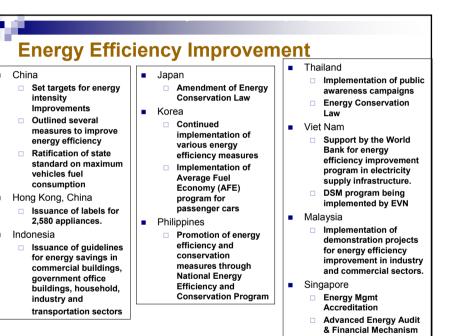


Steps Taken & Way Forward: (by the Phil. National Committee)

- Philippine AFOC National Committee created working groups to coordinate and oversee the implementation of strategies of the Coal program under the APAEC 2004-2009.
- Draft resolution prepared for convening the respective AFOC National Committees to amend AFOC Charter.
- Draft amendment to the AFOC Charter prepared for approval of the the National Committees.
- Closely coordinate with other country members to carry out needed activities and other cooperation plans to advance all the identified strategies under Coal Sub Sector Network of APAEC 2004-2009.

4. Energy Efficiency and Conservation		
STRATEGIES	PROGRAMMES/PROJECTS	
1. Continuation of Information Sharing and Networking	Develop a compendium of the following for circulation to member countries and general public:	
2. Continuation of ASEAN Energy Standards and Labeling	 Review country S&L programs and testing capacity Study international experiences through study tour and joint workshops Formulation of Common Technical Bases Development of Control Mechanisms and Implementation process Dialogues with stakeholders and promotion 	
3. Expansion of Private Sector Involvement	 Enhance dialogues with private sector, other countries and organizations outside ASEAN Conduct Seminars and Workshops jointly with EE&C Industry and Businesses Include EE&C Discussion and Exhibitions in AEBF Expand Energy Awards/Competitions for Induzery Sector and Individual Achievements 	

Energy Eff	iciency & Conservation
STRATEGIES	PROGRAMMES/PROJECTS
4. Capacity Building	Establish energy audit procedures & energy audit training Implement / Disseminate recommended improvements Develop system for energy database, benchmarking and guideline Develop ASEAN Energy Management System/Network Develop certification system for ASEAN energy manager including energy auditor Develop ASEAN energy management training for trainers Develop energy management guidelines Technology Transfer and Demonstration
5. Promotion of ESCO Business	Development of Measurement &Verification (M&V) Protocol Development of Energy Performance Contracting Legal Framework and Standard Form of Contract Development of Project Management and Institutional Guideline Development of Energy Saving Potential Indexes (Benchmarking) E-commerce development for energy services
6. Promotion of Energy Efficiency in the Transport Sector	Information Sharing on EE Policy and Measures for Transportation Sector Explore possible cooperation activities with ASEAN Transport sector (STOM)



Program under ASEAN EE & C

- PROMEEC (Industry / Building / Energy Management) 2006
- Multi Country Training in Japan 2006
- AEMAS 2005-2007

5. Renewable Energy

P.

STRATEGIES	PROGRAMMES / PROJECTS
1. To develop a Policy and Institutional Framework for the development of RE	 Recommend a Regional Policy on RE including setting a Renewable Energy Target in the Region Conduct institutional capacity building Continue to conduct dialogues and consultation workshops among stakeholders
2. To promote the development and contribution of RE in Energy Supply Mix	♦ Increase the share of RE in ASEAN to <u>at least</u> <u>ten (10) percent</u> of power generation
3. To promote the utilization of Biomass - based Cogeneration Technology	 To develop promotional activities i.e. workshops/ seminars to encourage uptake of cogeneration projects Dissemination of information relating to cogeneration and market developments

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Renewable Energy

N

STRATEGIES	PROGRAMMES / PROJECTS
4. To further strengthen Information Networking in RE	* To continue the implementation of PRESSEA and ASEM GRIPP Network
5. To promote intra-ASEAN cooperation on ASEAN-made Products and Services	 Update compilation of existing specification and standards of member countries in the RE-SSN Infonet of ACE Conduct market study on various RE technologies Develop /harmonize standards for RE products Strengthen Local Manufacturing Capabilities for RE products To design and apply innovative financing instruments in support of RE projects To compile potential projects that are planned for implementation up to 2009 To increase international cooperation
6. To promote the Utilisation of Biofuels	To develop promotional activities i.e. workshops/ seminars to encourage utilization of biofuels Dissemination of information relating to biofuel technology and market developments Establish linkage to the automotive and related industries to pursue cooperation in R&D activities

MAKING BIOFUELS A HIGH AGENDA

Declare a Bogor Initiative

10 Member Countries at the Workshop have adopted BOGOR Initiative "Making Biofuels a High Agenda" on 7 March 2006, Bogor, Indonesia

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Bogor Initiative ASEAN – NEDO Cooperation



NEDO and ACE signed the contract for the Cooperation of Study on Policies and Outlook for Bio-Fuels Utilization in ASEAN Countries.

 ACE and NEDO will organise Workshop on Policies and Outlook for Biofuel Utilisation in ASEAN Countries on 6 – 7 March 2006

Objectives of the Workshop

- a). To present governmental policies, plans and programmes on bio-fuel utilisation and development in ASEAN countries;
- b). To identify **policy gaps**, issues and measures to promote bio-fuels development and utilization in the ASEAN countries; and
- c). To propose regional activities for biofuels promotion and development that

ACE NEDO NRE Workshop in Bogor, Indonesia



ACE and NEDO organised Workshop on Policies and Outlook for Bio-fuel Utilisation in ASEAN Countries on 6 – 7 March 2006 in BOGOR, Indonesia

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5 STRATEGIES FOR THE REGIONAL PLAN OF ACTION ON BIOFUELS Bogor Initiative

- 1. To establish ASEAN Working Group on Biofuels Members: bio-fuels experts, all 10 countries represented
- 2. To establish Networking between and among Key Players on Biofuels such as government agencies, biofuels producers, oil companies, car manufacturers, financing institutions, agro industries, academe, research institutes, non-profit organization, and civil society.
- 3. To develop Human Resources on Biofuels and Technology Transfer (capacity building)
- 4. To enhance greater Private Sector Participation
- 5. To promote Intra-ASEAN Trade on Biofuels

RE - Way Forward:

1. ASEAN+3 RE & EE&C Forum

- Market Conditions and Prospect for Bio-fuel Development in ASEAN
- 2. ACE EAEF Co-financing Programme (ASEAN EU)
- 3. Biofuel Workshop with NEDO and its continuing phases
- 4. Clean Energy Financing Workshop with US DOS / USAID
- 5. Clean Energy & EE Initiative with ADB

6. Regional Energ	gy Policy & Planning
STRATEGIES	PROGRAMMES / PROJECTS
1. Energy Policy and Supply Security Information Sharing Network	 Continue and update the member's country energy policy and plans / infonet of ACE Continue and update the ASEAN energy database system of ACE
2. Capacity Building in Energy Policy Planning, Supply Security Assessment and Database Development	✤ Continue capacity building activities of member countries in energy policy analysis, database maintenance, supply security assessment through training, joint studies and technical exchanges between member countries
3. Incorporation of Environmental and Sustainable Development concern in regional policy formulation	 Continue the information networking on environmenta data related to energy development Conduct studies on environmental and energy policie for sustainable development Undertake regional cooperation on energy and sustainable development
4. Analysis and preparation of Regional Energy Policy and Outlook	 Conduct analysis on regional energy policy and outlook using common methodologies / framework Prepare regional energy policy and outlook
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Regional Energy Policy & Planning		
STRATEGIES	PROGRAMMES / PROJECTS	
5. Strengthen collaboration/cooperation among National and Regional Institutions in Energy Policy and Planning	 Expand energy nodal network for the region Conduct seminar/workshop and regional training in energy policy planning and supply security assessment Exploration/utilization of all kind of indigenous energy resources 	
6. Address energy issues pertaining to ASEAN Dialogue Partners / other relationships	 Continue/pursue dialogue with the following: ASEAN-Japan / ASEAN-China ASEAN+3 ASEAN-EU ASEAN-Australia ASEAN-Germany ASEAN-Multi Lateral Agencies 	
7. Pursue studies on evolving Regional Energy Policy Reform / issues	 Identify priority areas for regional studies 	
8. Monitoring and evaluation on the progress of the ASEAN Plan of Action for Energy Cooperation	 Conduct periodic monitoring and evaluation of the APAEC 2004-2009 Formulate an evaluation and monitoring (E&M) system for the APAEC 2004-2009 37 	

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Initiative for ASEAN Integration (IAI)

- ASEAN Leaders approved the Initiative for ASEAN Integration (IAI) Work Plan designed to reduce the development gap between the new and old ASEAN members.
- The IAI Work Plan is comprised of 54 projects in the following areas: infrastructure, human resource development, information and communications technology, and regional economic integration.

Initiative for ASEAN Integration (IAI)

- Of the ten (10) energy projects in the IAI Work Plan, seven (7) have secured funding as of February 2004.
- Four (4) projects funded by the European Commission ASEAN Energy Facility (EAEF) are currently under implementation.

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Initiative for ASEAN Integration (IAI)

These projects which have a combined budget of US\$1.24 million are:

- ENE/02/002 Power Industry Capacity Building Program with focus on CLMV
- ENE/02/003 Capacity Building Program for Power Transmission System Personnel of Electricite du Cambodge
- ENE/01/012 Study Tour and Workshop on Power Pooling in Europe for Greater Mekong Sub-Region / ASEAN Power Interconnection Programme
- ENE/02/013 Rural Electrification Decentralized Energy Options

Initiative for ASEAN Integration (IAI)

The other three projects, with total funding of US\$825,487, are in the planning stage. These projects are:

- ENE/02/004 Training on Small-Scale Product Processing Unit (SPPU) Utilizing Environmentally-Friendly Renewable Energy and Local Resources
- ENE/02/005 Institutional Strengthening and Capacity Building in the Energy Sector (Oil & Gas) in CLMV Countries
- ENE/02/006 Training Program on Coal Briquetting Technology and the Use of Briquettes for Households and Small Industries for CLMV Countries

ACE ACTIVITIES IN ENERGY COOPERATION IN ASEAN

2005 - 2006

ACE & Energy Cooperation: Workshops & Seminars (2005 –

- 200,61) ng & CRM/CIS Asia Pacific 2005 Conference & Exhibition
- APERC Annual Conference and Advisory Board Meeting
- Asia Power 2005
- National and Regional Frameworks for Electricity and Gas Regulation Conference
- Regional Forum On Sustainable Energy .
- World Renewable Energy Reg.Congress
- Development of energy service in some developina countries



- Harmonised Policy Instruments for the Promotion of Renewable Energy and Energy Efficiency in the ASEAN Member Countries
- Renewable Energy ASEAN 2005 Exhibition and Conference
- China Asia Power Executive Summit 2005
- Conference on the Asian Infrastructure Initiative
 - Qil and Gas 2005 Conferance Eff. Markets in the South East Asian Region
 - Thailand Power Industry Reforms
 - WS on Capacity Development for Clean **Development Mechanism** (CD4CDM) 43

ASEAN – EU Cooperation:

Proposal to Establish the SOME-EU

Consultation in the energy sector has been impressive Meeting nOneC dates back in 1988 with the establishment of the 10-year lot **HETGY**The EC set up 2 facilities worth more than Euro 45 million and encompassing

more than 100 projects: a) EAEF and b) Cogen Programme

In view of the considerable work already accomplished and mindful that energy is a key sector for sustainable development, our discussions with the EC Delegation in Jakarta has indicated that the EC is willing to pursue dialogue on energy with ASEAN within the context of the READI instrument.



APRIS II could provide support for outcomes of the REDI Dialogues such as short TA in order to identify who should participate in future EU-ASEAN Energy SOME and what should be arrangements for such Meetings.

The topics for a dialogue must be discussed and agreed for the said dialogue. The Delegation is willing to facilitate meetings between ASEAN and EC Officials.

ASEAN – EU Cooperation: European-ASEAN Energy Facility

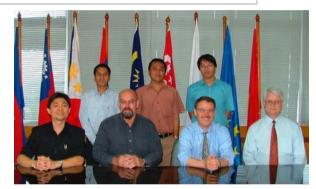
4th Call for Proposals made from 28 March 2005 to 27 June 2005 with 50 proposals received. As of February 2006, the final contracted



 The total EAEF projects, concluded or ongoing, stand at 67 with the EC contribution valued at EUR 16.5 million. The total number of received project proposals was 180. The total number of companies involved in EU and ASEAN is more than 500.

- The EAEF included COGEN activities in 2005 to monitor, follow-up and disseminate the results of eight projects implemented under Cogen 3 Programme.
- Under Institutional Strengthening: Two (2) projects are on-going; 3 projects close to tendering⁴⁹ and

ASEAN - EU COGEN 3 Program



ACE met with EC Evaluation Team (COGEN 3) on May 11, 2006 at ACE Head Office -Jakarta, Indonesia. The development of sustainable energy systems for the future Cogeneration Projects across the region has been

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ASEAN – Energy Charter Secretariat Cooperation



- ACE Met with Secretary General of the Energy Charter Secretariat at it's head quarter in Brussels in Apr 2006.
- The discussion was fruitful with a full support to conduct ASEAN ECT Project and workshop in the ASEAN.

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ASEAN – German Cooperation: ASEAN- German Mini Hydro

Projecter (AGMPC) ved a Note

Verbale from the Ambassador of the Federal Republic of Germany requesting ACE to support their proposed arrangements for the project. A copy of the Note Verbale is included in the folder for your reference.



- ACE was not able to proceed further to sign the said Note Verbale due to contradiction from what was previously agreed. In the MOU signed by A and BMZ on 2 June 2004, a grant agreement wi signed by ACE and GTZ with an amount of **1.6** million Euro to be managed by ACE. In the Note Verbale no reference was made on this, instead GTZ was charged to manage the entire project fund.
- ACE met with officials from GTZ and German, Embassy in Jakarta and Sought clarification on t issue. ACE communicated to the Soverightent of Germany to consider the Ringuss, age effect. AC waiting reply from Germany 2 Commons



ASEAN - Australia COOPERATION Regional Competency Standards for Training in RenewableEnergy under AADCP – RPS: ACE-GSES-ACIL 1. Developed Eleven (11) regional 3. Additional funding was competency standards obtained to conduct follow-up 2. Auditors Training was held in workshops in the 10 ASEAN January 2006 at the ACE countries in March and Aprigses **RE** training

has the ISP license for the region. GSES will work closely with ACE to prepare the Centre to administer the accreditation of institutions and the certification of RE instructors in the ASEAN region.

ACE - US COOPERATION

ACE will co-organize the US-proposed **ASEAN Regional Clean**

- Obiectives Energy Financing Workshop in practitioners to discuss progress and challenges to more effectively
 September 2006 in Bangkokojects;
 To enhance cooperation between ASEAN countries regarding access
- to clean energy;
- To better inform the private sector that the energy sector is profitable, including through sharing and dissemination of working business models.

Participants

The workshop is expected to attract 100-150 clean energy financing practitioners from ASEAN countries, representatives from the donor community as well as project developers, energy companies, commercial financial institutions and civil society who currently invest in – or are interested in investing in the region.

Format and Program

The workshop will be held over a two day period will involve: a) taking stock of past and ongoing clean energy financing program experiences:

ACE Initiatives (2006)

Set up ASEAN Energy Policy Study Unit (AEPSU) at ACE HQ inf Jakarta

- Maintain the current ASEAN Energy Database System including the oil price database and the EPSAP regional database
- Develop and maintain any database developed to support the future policy studies
- Conduct studies and joint research to assess regional energy policy issues
- Enhance the use of different modeling

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ACE Initiatives (2006)

ASEAN Business Council for the Development of Sustainable Energy and Environment (ABCDE) Project The overall objective is to develop a master plan and road map for the creation, implementation and operation of the ASEAN Business Council for the ASEAN Business Council for the Development of Sustainable Energy and Environment under the EAEF

Institutional Strengthening Component

ACE Initiatives (2006)

Formulation of Legal Framework for RE in Cambodia, Lao PDR and Vietnam Project

This is one of the 4 projects that are **funded** under the **EAEF Institutional Strengthening Component**

Targeted completion: December 2006

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MOE Initiatives (2006

N7

ACE has proposed project on "Assessing options for ASEAN to increase the share of renewable energy in

power generation to 10 per cent" under RPS-AADCP

Objective

 To enhance the capacity of ASEAN to assess the options available for achieving a 10 per cent renewable energy target.

Outputs

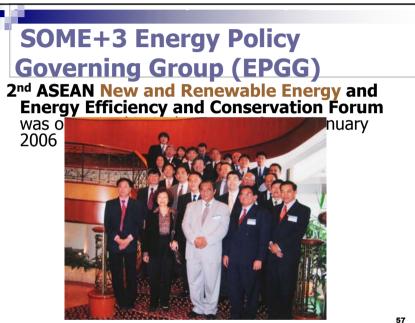
- Project Steering Group & Project Plan
- Research report on current renewables policy and infrastructure in ASEAN
- Report on broad policy options, including costs and benefits
- Research report on country case studies of renewable policy options
- Research report on the experiences of developed countries in achieving renewable energy targets and other policies designed to improve the relative standing of renewables
- Report with recommendations
- Symposium or seminar to present and discuss outcomes and

ACE Initiatives (2006 -07)

ACE – UNEP: Promotion of Local Manufacturing of RE Equipment in **ASEAN**

Proposal being revised by UNEP and ACE To be funded by GEF UNEP





ACE – RE SSN & BOJ COOPERATION

Assistance to Renewable Energy Sub-Sector Network (RE-SSN) to organize Meetings and



ACE - ASEAN+3 Cooperation

- The 2nd ASEAN+3 Natural Gas Business Dialogue, organised on 18 January 2006 and the 3rd ASEAN + 3 Natural Gas Forum on 19 January 2006 in Kuala Lumpur.
- 3rd ASEAN+3 Energy Security Forum and the 5th SOME+3 EPGG Meeting were organised in Singapore in February 2996.



 3rd ASEAN+3 Oil Market Forum and 4th Oil Stockpiling Forum

Forum were organized in Bangkok, Thailand March 2006.

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ACE – ASCOPE Cooperation



ACE Visited ASCOPE Office at Petronas Twin Towers

ASCOPE

- Involvement in 60th ASCOPE National Committees Meeting and Associated Meetings, Pattaya, Thailand



ACE AGCC COOPERATION





TAGP

- Participation in 11th ASCOPE Joint Committee Meeting, Manila, Philippines - Participation in 3rd AGCC Meeting, Manila, Philippines

ACE – AGC Cooperation

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AGC visited ACE at ACE-HQ in Jakarta on Apr 7, 2006. A very fruitful meeting regarding to the Cooperation on TAGP in the future.

ACE – Russia Cooperation



ACE met H.E. Ambassador of the Russian Federation at the Embassy of the Russian Federation in Jakarta. on 28 April 2006

ACE met with the representatives from Embassy of Russian Federation and GAZPROM at ACE – Head Office in Jakarta on 19 Apr 2006.



ACE – IEA Cooperation



 ACE and IEA agreed to cooperate on the project Oil Supply Security
 Emergency Responses from Non-IEA Countries

Activities:

- Workshops on "Establishment and Maintenance of Strategic Oil Stocks and Development of Best Practices" 2005-2007 IEA/ASEAN Workshop, Bangkok, 4Q 2006
- Training Courses on "Energy Data 8 Statistics Management Training" in Paris 2005-2006



ACE Initiatives

(2006 onwards)

- Establish REPP Department to monitor APAEC, develop Statistics & Database and build up Communication System (secondment from PTT)
 - Monitor & facilitate six (6) APAEC 2004-2009
 Work Programs (HAPUA, TAGP, AFOC, EE&C-SSN, RE-SSN, and REPP-SSN)

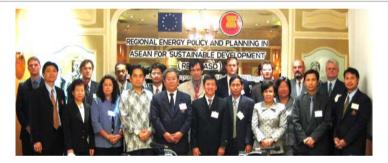
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- SOME-METI Work Programme (ESSPA)
- ACE as a Secretariat of REPP-SSN

ACE Initiatives (2006 onwards)

- Establish Conventional Energy and Power Department (CEP) to facilitate
 - Oil & Gas (ASCOPE)
 - Electricity (HAPUA)
 - Coal (AFOC) ACE as a Secretariat
 - Need Secondment

Establish RSEPP Department to monitor and Assist APAEC Monitoring and Evaluation (M&E)



-The 4th Annual Meeting of Regional Energy Policy Planning Sub-Sector Network (REPP-SSN) in Bangkok Thailand

- The 1st Meeting of Regional Energy Policy Planning – ASEAN Strategic Development (REPP-ASD) in Bangkok Thailand

supported by EAEF

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ACE HAPUA COOPERATION



HAPUA

• MOU between ACE and HAPUA Secretariat for the preparation of HAPUA Website hosted by ACE Website

The 4th Meeting of Trans-Borneo Interconnection Coordination Committee

Support through EAEF of Electricity Projects



ACE EE&C SSN COOPERATION



- Organized Annual Meeting of the Board of Judges for ASEAN EE&C-SSN Best Practices Competition and EE&C-SSN
- Supported activities of EE&C projects funded under PROMEEC and 70 EAEF.



1

ACE will facilitate a Joint Study for Impact of High Oil Price on Economy of ASEAN+3 Countries

with IEA and IMF funded by METI / Japan in 2006

THE CONSEQUENCES OF HIGH ENERGY PRICES

The objective of the work is to analyse <u>quantitatively</u> the consequences of high energy prices on energy markets and the wider macro-economy, historically and in the future 100

ACE is tasked by SOME+3/AMEM+3 to organize an ASEAN Dialogue with Middle East in Bangkok in 2006 to seek cooperation in Oil Price and Energy Security Issues



RE&EE in Buildings

- Min. of Energy, Water and Communications new building in Putrajaya dubbed as a "Low Energy Office Building" (LEO) as an exemplary energy efficient building.
- Government 'Lead by example'
- In operation September 2004.
- Design target 100 kWh/m2.yr (actual 110 kWh/m2.yr)



RE&EE in Buildings

- The new PTM HQ is designed to be a "Zero Emission Office Building" (ZEO).
- Design target 50 kWh/m2.yr
- A full range of passive and active EE measures are implemented such that the building will need no more electricity than what can be produced via its own BIPV system.
- Target completion: December 2006

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ACE - ASEAN Secretariat

Cooperation:

ASEAN - Cooperation for Sustainable Development with G8 - in Renewables and Energy Efficiency & Conservation



ASEAN Secretariat and ACE discussed possibilities to **cooperate with G8** / Japan ODA, which will include among others, undertaking joint studies with ACE and make recommendations on energy-related policies for ASEAN Member Countries while promoting ASEAN-Japan cooperation on energy.

Energy Minister – CEO Dialogue : AEBF



Assistance to ASEAN Energy Business Forum 2005

The Next Minister – CEO

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The Way Forwards

- ASEAN will organize the 24th ASEAN Ministers on Energy Meeting (AMEM) in Vientiane, Lao PDR in July 2006
- to visualize a "pathway" towards Sustainable Energy Development and its Security, Energy Efficiency and Alternative Energy in the long run for ASEAN



