



COGEN 3 Programme and Activities

2004 Cogeneration Week in Thailand

23 - 25 March 2004

Miracle Grand Convention Hotel, Bangkok

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COGEN 3 Programme Co-ordinator



EC-ASEAN COGEN Programme Phase III (COGEN 3)

An economic cooperation programme between
European Commission (EC) &

Association of South East Asian Nations (ASEAN)

- Funded by the EC (15 Mill. EURO)
- 3 year programme January 2002 – December 2004
- Coordinated by Asian Institute of Technology (AIT)
& Carl Bro International AB



COGEN 3 Objectives

- Promote the use of Cogeneration in ASEAN
- Promote proven, clean and efficient European Cogeneration technologies
- Create business opportunities for cogeneration using biomass, coal and gas as fuels



COGEN 3 Organisation & stakeholders

Stakeholders in Europe

Project developers
Equipment suppliers
Banks & financiers

Stakeholders in ASEAN

Project developers
Equipment suppliers
Banks & financiers
Policy makers



COGEN 3

European Office
Malmö, Sweden

COGEN 3

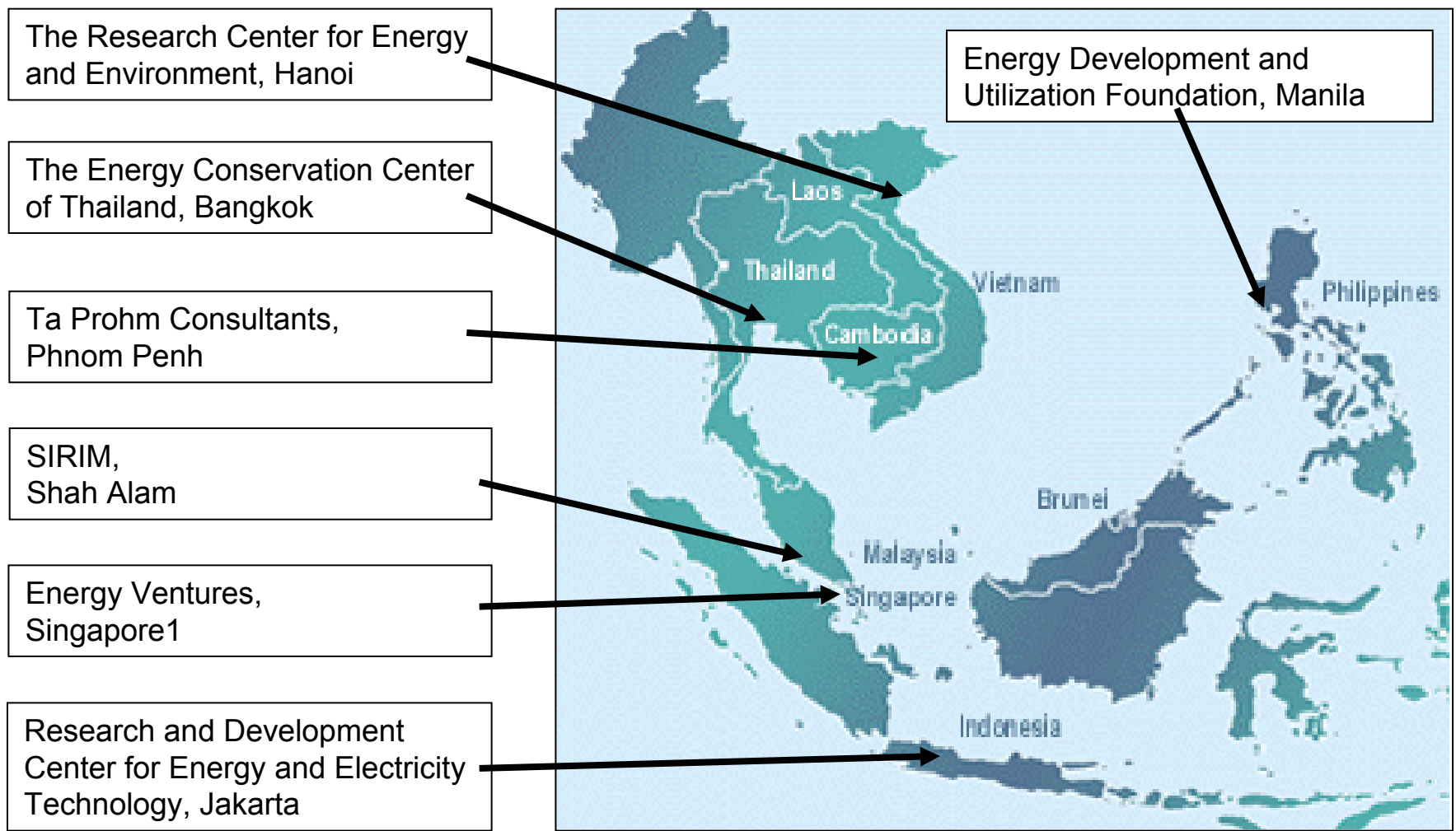
Programme
Management Unit
Bangkok, Thailand

COGEN 3

ASEAN Country
Co-ordinators in
7 Countries



COGEN 3 Country Co-ordinators





COGEN 3 activities

- Facilitation of cogeneration project development
- Capacity building, awareness & information
- Cogeneration policy guidance
- Full Scale Demonstration Projects (FSDPs)



Facilitation of cogeneration project development:

Services to project developers & end-users

Technical / Financial / Environmental Analysis

Advice on technology selection & investment decisions

Financial packaging

Announcement of identified cogeneration projects in ASEAN

Tools for development & evaluation of cogeneration projects

- Technical – Financial Analysis model (ver. 2) for free distribution
- Several advanced tools for advisory services



Facilitation of cogeneration project development:

Technical, Business & Market Information

Directories on European & ASEAN equipment suppliers & service providers

Report on Cogeneration Technologies:

- Part 1: Definitions and Systems
- Part 2: Technologies and Products

Cogeneration Project Development Guide (2nd Edition)

- Guidance for development of cogeneration projects

Applicability of European Technologies in ASEAN Market

- Cogeneration equipment status in the ASEAN market
- Sector overview: Suitable applications and equipment

National Cogeneration Policy Reviews (7 country reports)

- Overview of existing policies
- Guidance for policies promoting cogeneration

Capacity building, awareness & information:

2003 COGEN 3 events

Cogeneration Weeks in 7 countries *(1,200 participants)*

Training courses in Cogeneration Project Development
(5 events, 143 participants)

Seminars on Financing of Cogeneration Projects
in Thailand, Malaysia & Indonesia *(85 participants)*

CDM seminar in Malaysia *(80 participants)*

Major exhibitions & conferences

- Power Gen Asia (Ho Chi Minh City)
- Sustainable Energy Asia (Singapore)

Site visits to 8 cogeneration plants *(183 Participants)*

Policy forum & study tour in Thailand & Policy maker
study tour to Europe *(25 high ranking ASEAN policy makers)*





Capacity building, awareness & information:

2004 Cogeneration Weeks

Thailand	23 – 25 March	Bangkok
Vietnam	6 – 9 April	<i>Hanoi & Ho Chi Minh City</i>
Singapore	23 April	<i>(Cogeneration Day)</i>
Indonesia	18 – 21 May	<i>Jakarta & Balikpapan</i>
Cambodia	8 – 11 June	<i>Phnom Penh & Battambang</i>
Philippines	21 – 24 June	<i>Manila & Isabela Province</i>
Malaysia	6 – 8 July	<i>Kuala Lumpur & Johor Baru</i>

- Opening ceremony: Policy and financing
- Forum & Mini-exhibition with European equipment suppliers
- Cogeneration project development seminar
- Site visit & individual consultations



Capacity building, awareness & information:

Other 2004 COGEN 3 events

Major exhibitions & Conferences:

- World Conference & Technology Exhibition on Biomass (Rome, May)
- Power Gen Europe (Barcelona, May)
- Asian Energy Business Forum (Manila, June)
- Power Gen Asia (Bangkok, October)

CDM seminars in Thailand & Indonesia

Visit to Full Scale Demonstration Projects



Cogeneration policy guidance

Objective:

Improve financial and regulatory conditions to enhance further cogeneration development

Activities:

- National energy policy reviews & guidance for each country
- ASEAN Policy maker study tours to Europe
- Seminars & meetings
- Cogeneration Weeks




Full Scale Demonstration Projects (FSDPs)

Objective:

Demonstrate the technical reliability and economic viability of proven European cogeneration technology to ASEAN end-users

- 24 FSDP Candidates selected
- Capacity: 0.3 – 41 MW (Total: 174 MW)
- Total Amount of EC support: 8.6 mill. EURO
- Total Investment: 209 mill. EURO
- 17 projects is expected to be implemented by end of 2004

A map of Southeast Asia and the Philippines region. Overlaid on the map are six white callout boxes with black borders, each containing a red number and text indicating the number of projects in a specific country. The countries shown are Thailand, Cambodia, Malaysia, Singapore, Philippines, and Indonesia. Major cities like Bangkok, Kuala Lumpur, Jakarta, and Manila are labeled. Bodies of water like the South China Sea, Philippine Sea, and Andaman Sea are also labeled.

4 projects in Thailand

1 project in Cambodia

7 projects in Malaysia

2 projects in Singapore

2 projects in Indonesia

1 project in Philippines

- **Palm oil waste** : 4
- **Rice husk** : 4
- **Bagasse** : 2
- **Wood waste** : 3
- **Biogas** : 3
- **Bio-oil** : 1





For more information,
please visit COGEN 3 Website at:

<http://www.cogen3.net>

Thank You !