



COGEN 3 Programme and Activities

Malaysian Cogeneration Week 2004

6 – 7 July 2004, Sheraton Subang Hotel & Towers, Subang Jaya

8 July 2004, Puteri Pan Pacific Hotel, Johor Bahru

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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



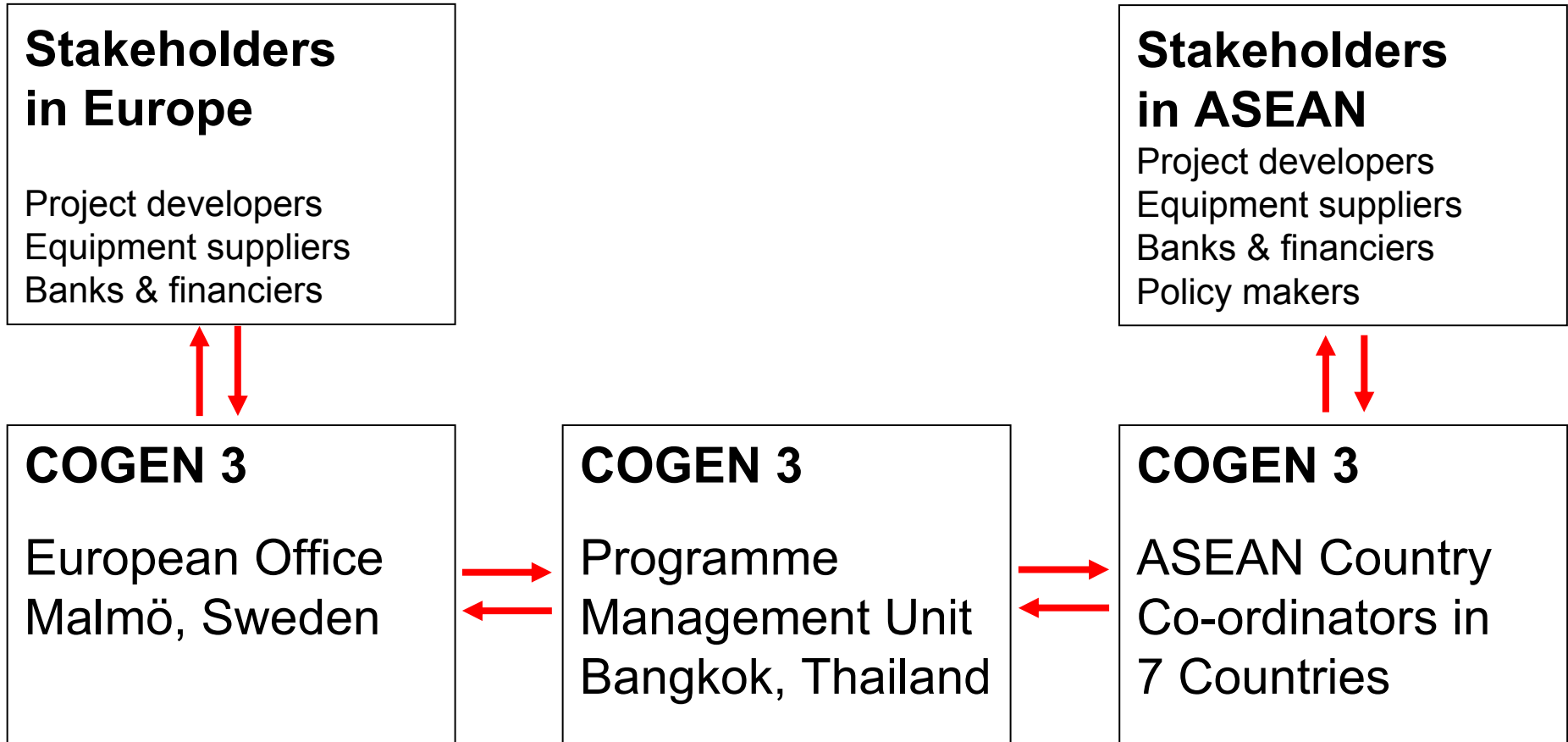
COGEN 3 Objectives

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

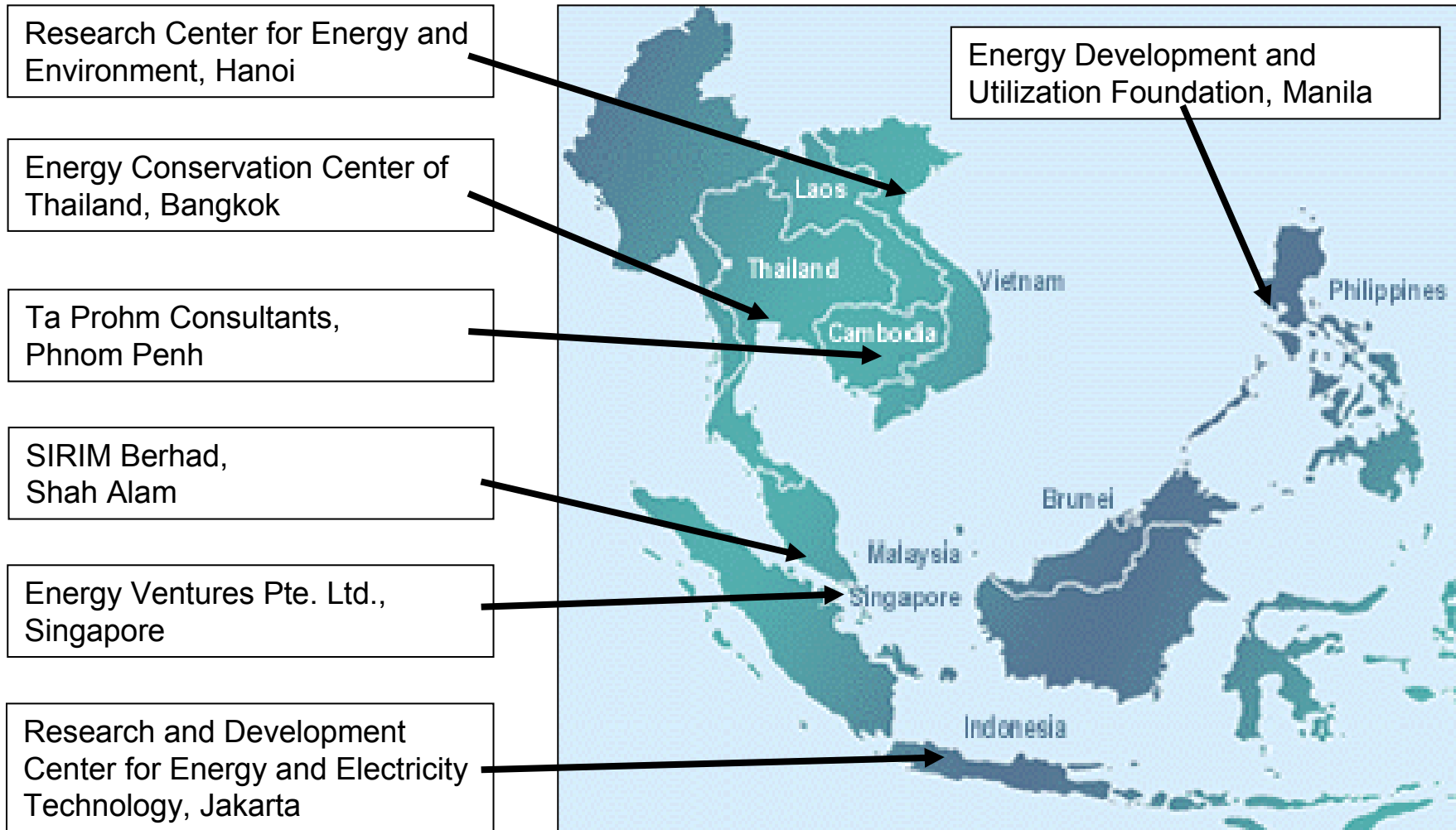




COGEN 3 Organisation & stakeholders



COGEN 3 Country Co-ordinators





Outline: 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 / Environmental Analysis

Advice on technology selection & investment decisions

Financial packaging and advises

Announcement of identified ASEAN cogeneration projects to European cogeneration suppliers

Tools for development & evaluation of cogeneration projects

- Cogeneration Project Development Guide
- Technical – Financial Analysis (TFA) model (ver. 2)



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

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)*

Clean Development Mechanism 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	<i>Bangkok</i>
Vietnam	6 – 9 April	<i>Hanoi & Ho Chi Minh City</i>
Singapore	23 April	<i>(Cogeneration Day)</i>
Indonesia	18 – 19 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 cogeneration 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) - done
- Power Gen Europe (Barcelona, May) - done
- Asian Energy Business Forum (Manila, June) - done
- **Power Gen Asia (Bangkok, October)**

Clean Development Mechanism seminars in Thailand & Indonesia

Visit to Full Scale Demonstration Projects



Cogeneration policy guidance

Objective:

Improve regulatory conditions to enhance further cogeneration development

Activities:

- National energy policy reviews & guidance for 7 countries
- 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 are expected to be implemented by end of 2004



4 projects in Thailand

1 project in Philippines

1 project in Cambodia

7 projects in Malaysia

2 projects in Singapore

2 projects in Indonesia



- 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 !