Thailand-EC Cooperation Facility
Enhancing Institutional Capacities for the Market Development of Decentralised Energy Systems in Thailand

Decentralised Energy
A Local Solution for Global Problems

www.wadethailand.org
Enhancing Institutional Capacity for the Market Development of Decentralised Energy Systems in Thailand

Alan Dale Gonzales
Technology Specialist

Stakeholders Consultation
2nd December 2009
Pullman Bangkok King Power, Room Epsilon
Partners

- Energy Conservation Center of Thailand (ECCT)
- World Alliance for Decentralised Energy (WADE)
- Full Advantage Co., Ltd. (FA)

Associate Partner

Funded by:
European Union
Road Map for DE in Thailand

• Thailand Status Today
• Barriers & Challenges
• Options & Potential
• WADE Thailand-Organisation
  – Mission & Objectives
  – Structure
  – Stakeholders & Membership
  – Value Proposition
  – Organisation’s Activities
  – Benefit for Members
Thailand Status Today

- Natural Gas pipeline expanding
- Energy Planning and Policy Office (EPPO) – concluded that 3,300 MW of CHP potential
- VSPP expanded to 10 MW –
  - Fossil fuel fired DE/CHP gen – have primary energy savings of 10%  
  - Installed capacity increased to 10 MW
Barriers & Challenges

- Lack of natural gas pipeline networks
- Regulatory restrictions in the implementation of energy plants in commercial complexes and buildings based on zoning
- Tariff setting does not reflect the cost of fuel
- No standardization of DE
- Net metering and Connection charges
- Difficulties in funding (investors and lenders) the projects
- Difficulties in getting public acceptance
- Lack of centralised organisation providing coordination, information, training or services
- Lack of awareness and knowledge on climate change issues
Options & Potential

• Improve CHP/DE capacity
  – Create government definition for CHP, track data
  – Perform economy-wide potential study
  – Create industrial awareness for CHP

• Raise awareness in national and local governments
  – Create special CHP/DC economic zones

• Explore the benefits and costs of extending feed-in tariffs for DE/CHP
WADE Thailand Concept

- Propose to set up WADE Thailand as a Non Profit Organisation (NPO)
- To be set up to complement (not compete with nor duplicate) existing organisations
- WADE Thailand should be self sustaining
- Bring about effective power sector reform which eliminates barriers to DE
- Provide Members with value added market intelligence, information and business opportunities
WADE Thailand Concept (cont’d)

• Aim to have 30-50 members at minimal fees and limited operational budget
• Harness the benefits of EC, ADB, USAID, and other funding for the promotion of DE
• Provide business opportunities for, among and in collaboration with members
• Provide networking opportunities and learning from members
• Co-ordinate the creation of high quality carbon credits from DE projects and assist members to capture the upcoming carbon market
WADE Thailand Mission

1. To promote the development, implementation and dissemination of DE in Thailand
2. To bring about effective power sector reform which eliminates barriers to DE and creates real market opportunity for DE
3. To provide its Members and supporters with value added market intelligence, information and business opportunities
WADE Thailand Objectives

1. To form an Alliance among existing global and local associations/organisations to address shared concerns and enhance networking opportunities

2. To conduct advocacy activities for the enhancement of policies and programs that level the playing field for DE

3. To organise events and activities designed to promote and advance the market for DE technology and showcase member product offerings

4. To conduct cutting-edge research and analysis on energy and the environment and disseminate market intelligence and relevant news to keep members informed of the latest developments in the global DE marketplace

5. To formulate projects and activities that will generate business opportunities for members
Funded by:
European Union

Alliance Members

WADE THAILAND

Value Proposition

Activities

Benefits

Stakeholders
Stakeholders & Memberships

Main Actors / Stakeholders
• Small to medium sized industries/companies/associations relevant for DE
• Government agencies (MoE; DEDE; EPPO; EGAT; PEA; MEA,...)

Memberships
• Founding Members (by invitation - Free)
  – Professional Associations
• Full Members
  – Commercial (15,000 THB)
  – Educational/Non-profit (10,000 THB)
  – Individual (5,000 THB)
WADE Thailand - Value Propositions

• WADE Thailand will be an Alliance of existing associations in Thailand & globally
  – Shared concerns and cross-cutting issues
  – Differentiated solutions

• WADE Thailand will be a platform for companies to go ASEAN

• WADE Thailand will focus on
  – Financing
  – Technology transfer
  – Climate Change aspects

• WADE Thailand will provide access to:
  – Market Intelligence and business opportunities
  – Reports, studies, seminars
  – Global network, members’ experiences
WADE Thailand Activities

- Advocacy activities
- Provision of Policy and Regulatory updates
- Market monitoring and intelligence
- Preparation of proposals that will generate business opportunities for, among and in collaboration with members
- Web-based matching between projects and funders
- Provision of services to members
- Workshops / Seminars / Conferences (Networking Opportunities)
Benefits of Members

- Leveraging of existing set ups to address shared concerns and cross-cutting issues
- Platform for expansion to other ASEAN countries
- Greater access to sources of financing
- Enhancement of market intelligence and business opportunities
- Access to centralised support for information, services and training on DE and Climate Change aspects
- Reports, studies, seminars
- Global network, members’ experiences
Next Steps

• Finalize Roadmap
• Set up and register WADE Thailand
• Invite Founding Members
• Recruit other Members
• Elect Board of Directors from Members
• Start operation
Thailand-EC Cooperation Facility
Enhancing Institutional Capacities for the Market Development of Decentralised Energy Systems in Thailand

Decentralised Energy
A Local Solution for Global Problems

The Energy Conservation Centre of Thailand
Bangkok Thai Tower, 10th Floor
108 Rangnam Road, Thanon Phayathai
Pathumthani, Bangkok 10400, Thailand
Tel: +662-6627090
Website: http://www.ecct-th.org
Email: Ecct@mozart.inet.co.th

World Alliance for Decentralised Energy
Edinburgh Quay, 133 Fountainbridge
Edinburgh EH3 9BA
United Kingdom
Tel: +44 (0)131-6263333
Website: http://www.localpower.org
Email: info@localpower.org

Full Advantage Co., Ltd.
Room 201, Innovation Cluster I Bldg.
131 Thailand Science Park
Paholyothin Rd., Klong 1,
Klong Luang, Pathumthani 12120 Thailand
Tel: +662-6647923
Website: http://www.full-advantage.com
Email: ExecutiveDirector@full-advantage.com

www.wadethailand.org