

## About SETatWork

SETatWork assists European industries to gain access to the carbon markets through energy performance improvement by offering an information platform and a wide range of activities within training, promotion and matchmaking for industry, technology suppliers and actors in the global Carbon Market.

Learn more on [www.SETatWork.eu](http://www.SETatWork.eu)

## Country Profile

Thailand has created the energy saving discipline as a national culture and encouraged energy conservation in all sectors -- household, industrial, services & commerce and transportation -- through campaigns aiming to build up energy-saving conscience.

Four main initiatives have been launched to speed up the uptake of renewable energy and promote energy efficiency i.e. (i) the Energy Revolving Fund for Energy Efficiency /Renewable Energy, (ii) ESCO venture capital funds, (iii) Tax incentives for energy saving, and (iv) DSM Bidding.

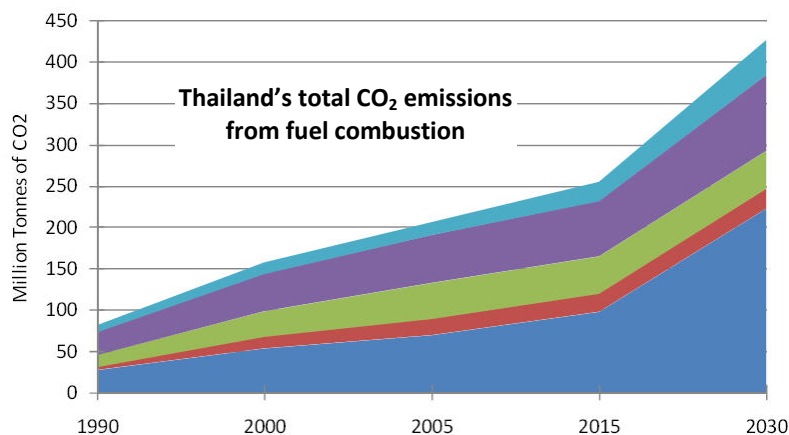
These measures are part of the **15-year Alternative Energy Development Plan (AEDP 2008-2022)** which goal is to increase the share of alternative energy mix to be 20% of the country final energy demand in the year 2022.

Learn more with our "SETatWork Country Report for Thailand" available for download at: <http://www.setatwork.eu/countries.htm#profiles>

## CDM

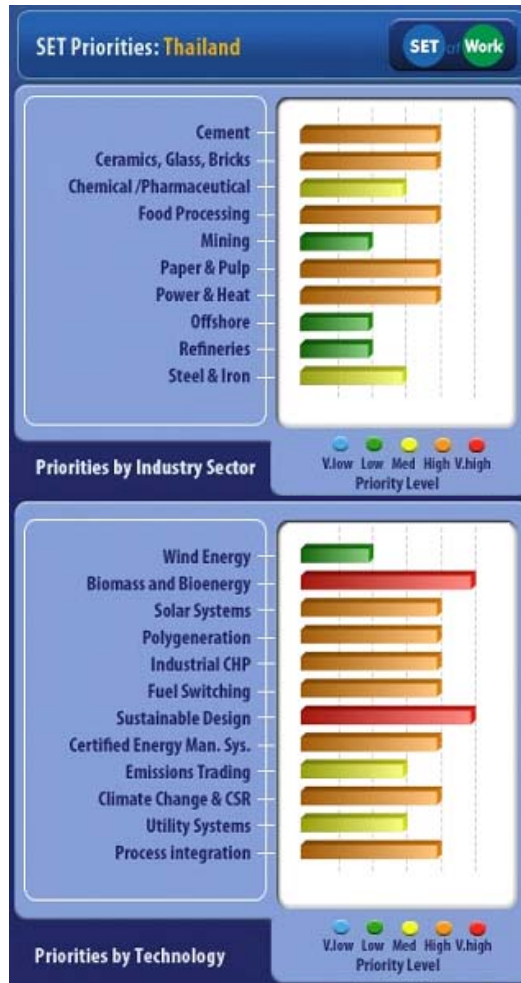
Over the period 2005-2030, CO<sub>2</sub> emissions from fuel combustion are projected to increase at an average annual rate of 2.9 percent, up to 425 million tonnes of CO<sub>2</sub> in 2030 (Source: APEC Energy Demand and Supply Outlook – 4th edition, 2009).

■ Electricity Generation ■ Refineries and Other Energy ■ Industry ■ Transport ■ Others



From the **National Strategic Plan on Climate Change 2008-2012**, Strategy #6 addresses Greenhouse Gas (GHG) Mitigation with the promotion of: (i) CDM Implementation in energy, industry, agriculture, and wastes sectors, (ii) GHG sequestration, and (iii) Clean technology.

**Thailand Greenhouse Gas Organization (TGO)** is the Thai Designated National Authority (DNA). It has a One stop service for the Issuance of Letter of Acceptance (LoA) by the the Permanent Secretary of the Ministry of Natural Resources and Environment.



## Dates for your diary

### February 18-20, 2010 SETatWork Matchmaking Event

The place where to develop CDM business opportunities, to learn about technologies available in Thailand, to meet CDM stakeholders...

**Venue:** BITEC - Bangkok International Trade & Exhibition Centre, Bangkok, Thailand

**Schedule:** **Thursday 18 February**, 9:00 to 15:30: Workshop on "Energy Efficiency and Conservation";  
**Friday 19 February**, 9:00 to 15:30 - Workshop on "Renewable Energy and Cogeneration";  
**B2B Meetings, SETatWork booth, Exhibition Hall**

### a side-event of: Thailand Energy Saving 2010 (Exhibition and Conference)

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## Sustainable Energy Technology Providers

To some extent technologies needed to implement SET projects are available from industrial producers in Thailand. Though in many areas, when requiring high-end products proving high efficiencies, such will be imported.

The Country Report for Thailand provides in its Annex A the list of main **SET providers** from the EU Countries, Non-EU Countries, and Local Manufacturer which are available in Thailand. The targeted-potential technologies are divided into these following areas: Biogas Technology / Boiler Technology / CHP Technology / MSW Management & Handling technologies.

Annex B lists **EE Technology providers** which are available in Thailand, together with Energy Consultants. The targeted-potential technologies are divided into these following areas: Automatic Condenser Cleaning System / Chillers / Economizer / Heat Pump / Insulation / Solar water Heater / Split Type Air Conditioner / T5 Fluorescent Lamp / Variable Speed Drive / Water heater using waste heat from AC.

Annex C lists **other service providers** linked with renewable energy, rational use of energy and CDM, as follows: Academic / Carbon Market / Consultants / Governmental.

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## State of the Carbon Market

As at February 10<sup>th</sup>, 2009, LoAs have been issued for 60 projects with a total emission reduction of 3.98 MtCO<sub>2</sub>. Another 27 projects were under approval process by TGO, with expected CERs of about 1.3 MtCO<sub>2</sub>. It is seen that most of the projects are focusing on power generation with biogas and biomass as the main fuels.

In June 2009, 14 projects have been registered at UNFCCC, and 2 project have been certified (CERs 411.400 tCO<sub>2</sub>e/y).

### SETatWork Contact for THAILAND:



The Centre for Energy Environment Resources Development (CEERD) is part of the Foundation for International Human Resource Development (FIHRD), a Thai non-profit Foundation promoting technical and economic cooperation for developing the potential of human and physical resources within the Asian region.

CEERD conducts extensive training, research and consultancy in the field of energy- environment, including data collection, modeling & planning, policy & and regulatory issues, and more importantly in the fields of new and renewable technologies, energy efficiency and Climate Change (Kyoto Protocol, CDM, ETS, etc...), in the framework of international cooperation projects aiming to strengthen the capacity of national governments in the Asian region on above fields. CEERD also provides information and knowledge on current issues and developments in energy-environment affecting the Asian region.

CEERD has been endorsed by Thailand's Ministry of Energy to be a member of the ASEAN Centre for Energy's (ACE) Network of Nodal Centres, and assists ACE in initiating, organizing, and implementing activities to promote regional cooperation on energy and environment.

CEERD covers the whole Asian region, with a particular emphasis on the Asean sub-region, and is supported by an extensive network of Asian and European experts who can be mobilized at any time in the framework of national and regional projects.

For further information contact:

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Centre for Energy Environment Resources Development (CEERD)

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Silom, Bangrak District, Bangkok 10500, Thailand

Details of other partners can be found at: [www.setatwork.eu/partners.htm](http://www.setatwork.eu/partners.htm)

TGO is drafting at present a **Crown Standard** – a premium quality Carbon credits for the compliance and voluntary markets - indicating a high score gained at the review of sustainable development criteria, which will be adding value to Thai CERs. Later on CDM projects will be monitored by TGO's monitoring network.

Visit TGO at: <http://www.tgo.or.th/english/>

## Good Practice

As part of SETatWork activities, 3 Good Practice Cases for Thailand have been prepared and can be found online at: <http://www.setatwork.eu/gp.htm>

- Solar Water Heating System, Royal Orchid Sheraton Hotel, Bangkok
- High Efficiency Chiller, Phyathai Hospital, Sriracha, Chonburi Province
- Lighting Renovation, Asian Institute of Technology (AIT), Pathumthani, Bangkok

## Stakeholders and Initiatives

Since the start of the project, CEERD has been retrieving contacts and meeting with related stakeholders (notably industry associations, technology suppliers and consultants) to gather information about current CDM developments, and to identify energy efficiency and saving opportunities in Thailand.

CEERD adapted and translated the SETatWork Project Leaflet in Thai. The document was handed at the time of meeting with Thai stakeholders or at the occasion of conferences and seminars in Bangkok. Translated information served also as supporting material for publication in Association Newsletters (Thai Food Processors Association, Aug. 2009, Energy Saving Consultation Centre, Nov. 2009).

CEERD has been attending a number of Conferences, Seminars or Exhibitions in the period. It was the occasion to tell about the project objectives and its activities. CEERD was also media partner for several events related with renewable energy and carbon markets in the region.

CEERD is at present preparing the Agenda for the **Matchmaking event scheduled on February 18-19, 2010** at BITEC in Bangkok. The meeting will bring together: Private sector project owners (industry, retailing, hospitality businesses...), Official representatives (Energy, Environment, Industry...), SET and EE Service providers, EE, CDM and Financial Consultants, Carbon traders...

The main objectives of this regional facilitation workshop are: (i) to present EU or best available technologies and the opportunities for CERs sales to project owners; (ii) to present how the CDM cycle can help finance EE projects and technologies; and (iii) to facilitate business meetings (B2B) between Project owners, Project developers, Technology suppliers and Financing institutions.

Further details of the case studies, businesses and match-making opportunities in Thailand and the other countries covered by SETatWork can be found online at: [www.setatwork.eu](http://www.setatwork.eu)