



# 2nd Thai-German Community-based Renewable Energy Conference 2016

18<sup>th</sup> October 2016, Century Park Hotel, Grand Ballroom, Bangkok



Version as of October 16, 2016

## Background

GIZ and the Thai Ministry of Energy (MoEn) jointly organized the 1<sup>st</sup> “Thai-German Renewable Energy Community Conference” (CBRE) in October 2015 in Bangkok. The conference was the first of a series of annual events on renewable energy projects of communities in the context of the Project Development Programme (PDP) of GIZ. This year’s event is taking place on the 18<sup>th</sup> of October and is designed in a way to maximize the exchange of communities, renewable energy (RE) companies and international experts in order to evaluate latest models and technologies for RE on community level in an interactive way.

## Objectives

### Goals of the Forum

- Create and maintain a large and unique network of communities in the RE sector of Thailand;
- Discussion and evaluation on latest models and concepts for community-based RE approaches with the communities;
- Present latest technology solutions for RE in communities.

## Target Group of the Forum

- Thai community representatives or local citizens who are interested in developing their own RE project together with Thai and German private sector partners.
- Thai and German technology suppliers, investors and project developers who understand the particular challenges of community projects and intend to develop Thai-German renewable energy communities.
- Thai public officials involved in the regulation of decentralized energy development (PEA, MEA, ERC, DEDE, EPPO, EGAT, PPP, Provincial Energy Officers; national and regional level).
- Media representatives interested in deepening their understanding of the topic.

## Methodology

In keywords: presentation, working groups, World Café, panel discussion, expert panel, innovation roadshow

The conference will have an interactive setup: After a short introduction in plenum, three **working groups** will be formed on different RE topics: **Bioenergy, Solar PV rooftop systems and RE hybrid-island systems**. In each working group international experts will join to share their expertise. The working groups are following each a specific agenda and methodology:

- **Bioenergy Working Group**

The bioenergy group will deal with organizational structures for bioenergy projects and self-consumption possibilities on community level in the first session. The second part will concentrate on the sustainability development of bioenergy project, FiT-bidding scheme by the Thai government. The aim is to evaluate concrete community project ideas with project developers and international experts in a panel setup, prepare them for the upcoming application process and match suitable project consortia.

- **Solar PV rooftop Working Group**

In the first session covers the topic of photovoltaic (PV) installation on public roofs. Different models will be presented and barriers from on-going projects are going to be addressed in a round-table discussion. The second part is focusing on PV installations on community roofs and evaluating project leads in a casual World Café setup.

- **RE-hybrid systems on islands Working Group**

In the first session a Thai showcase community will present their hybrid grid system and operation model to the participants. The companies involved in this project will further describe their contribution and the installed technical solutions. After this practical example different business models will be evaluated with the group. Within the second session different companies will have the opportunity to get in contact with interested communities in an interactive World Café atmosphere. The community representatives will get the chance to present their cases to the companies and gather information about possible technical solutions and services.

Before closing the conference, the working groups will present their key findings to the auditory in order to share experience and identify synergies for further cooperation.

The **innovation roadshow** gives space for different technology providers to exhibit their products, solutions and ideas in the premises of the venue for an interactive networking during the breaks.

## Date and Location

18 October 2016 at Century Park Hotel Bangkok

## Cooperation partners

### Thai Partners

- Cooperatives League of Thailand (CLT, tbc)
- Ministry of Agriculture and Cooperatives (tbc)
- Thai Biogas Trade Association (TBTA)

### German Partners

- German Embassy Thailand
- German Cooperative and Raiffeisen Confederation (DGRV, tbc)
- German-Thai Chamber of Commerce (GTCC)
- German Biogas Association (FvB)
- PDP regional offices in Viet Nam, Myanmar and Philippines

## Language

Main language of the event will be **Thai**. Simultaneous translation in both directions will be available. All presentations held in English will be translated into Thai.

## Registration

Participants need to register online. The size of the working groups will be limited to app. 40 participants in order to achieve a good working atmosphere.

## Rationale

### Germany and Thailand: First-Mover for Sustainable Energy

Thailand is the frontrunner in renewable energies in South-East Asia and – by setting itself ambitious targets for RE development – aims at remaining in that position. Especially the country's targets for biomass, wind and solar energy underline its strong commitment. Under the current political framework, several initiatives focus on community level activities with the goal to promote sustainable energy production on a decentralized level.

Germany is one of the world's major renewable energy economies with very ambitious goals towards the energy transition ("Energiewende"). According to the German strategy, 60% of total energy consumption shall be covered by renewable energies by 2050. In 2015 already 30% of Germany's electricity supply was produced from renewable energy sources, and more than 371,000 people worked in the renewable energy business despite the economic slowdown in Europe. More and more German communities are grasping the opportunity to become a part and a driver of that development by implementing their own renewable energy projects that create a variety of benefits for local stakeholders.

## Towards Thai-German Renewable Energy Communities

In Germany, communities play an important role for the development of renewable energy projects. Many thousand renewable energy systems are operated locally in communities by a variety of actors. More than 40% of all RE capacity in Germany is in the hand of citizens. Over 900 energy cooperatives are currently active in Germany owning a total of 700 MW installed capacity. Sharing such experiences with Thai communities will make them more aware of the benefits of local energy production.

In difference to fossil fuel-based generation, the value remains on-site in form of income, jobs, corporate profits, as well as avoided fuel costs, taxes, and charges in the local economic cycle. Those funds increase the scope of action for local authorities: schools can be renovated, roads can be repaired, clubs or associations can be promoted.

The Project Development Programme (PDP) implemented by GIZ on behalf of the German Federal Ministry for Economic Affairs and Energy (BMWi) supports the Ministry of Energy (MoEn) in Thailand in increasing the deployment of renewable energy technologies in the country. In accordance with MoEn's goals, GIZ focusses on increasing the number of renewable energy projects in communities, regions and provinces in Thailand by sharing German experience and know-how. Since especially small and medium sized companies are the carrier of knowledge and technology in this regard, the strategy of the project is to trigger business cooperation between German and Thai companies, while allowing local communities to directly profit from renewable energy projects.

The intention of PDP is to support Thai-German Renewable Energy Communities jointly with MoEn. PDP is aiming to initiate a reference project where German companies share technology and knowledge with Thai companies and thus form a Thai-German RE partnership with a local community. The activities try to achieve a combination of different renewable energy or intelligent grid technologies and develop business models which are beneficial for the community.

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