



COMBINED HEAT, COOLING AND POWER FROM SOLAR ENERGY AND BIOMASS, TRESERT

As of: October 2021

The aim of this project was to demonstrate an innovative technology for the decentralised provision of electrical energy, heat and refrigeration for air conditioning using solar energy and biomass, and to publicise it among potential cooperation partners in the South-East Asian region. To this end, a reference plant was built in the Solar Park at the School of Renewable Energy Technology (SERT). By conducting training and information events, the project helped the technology to become more widespread, tapping new potential for reducing CO₂, and promoting the region's climate-neutral development.

State of implementation/results

- Project completed
- Reference plant successfully installed and commissioned at SERT, Competence Centre for Solar Energy in South-East Asian region
- Handover of plant to SERT in June 2012
- Implementing agency recognised with National Globe Energy Award of Thailand in May 2012
- Innovative power plant technology presented at numerous conferences and workshops to a broad range of specialists from around the world
- Reference plant used for training and demonstration purposes, know-how in the area of renewable energies transferred, particularly in the solar thermal field
- First commercial solar thermal power plant in Thailand constructed as a result of the demonstration plant

PROJECT DATA

Country/Countries:

Thailand

Implementing organisation:

Solarlite GmbH

Political partner(s):

- Ministry of Energy - Thailand

Implementing partner(s):

- Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR) - Institut für Technische Thermodynamik
- Naresuan University - Thailand

BMU grant:

€ 1,101,778.96

Duration:

11/2008 till 06/2012

