

Press Release



New Energy and Industrial Technology
Development Organization
<http://www.nedo.go.jp>

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NEDO and the Ministry of Industry of the Kingdom of Thailand Agree to Cooperate in the Environment and Energy Efficiency Fields

The New Energy and Industrial Technology Development Organization (NEDO) of Japan and the Ministry of Industry (MOI) of the Kingdom of Thailand agreed on December 20, 2010 to carry out joint projects in the environment and energy efficiency fields. NEDO will provide cooperation and introduce Japan's environmental and energy efficiency technologies in projects being promoted by MOI, such as the 'Eco-industry Town Plan' and Pinch Technology Project².

Mr. Seiji Murata, Chairman of NEDO, and Mr. Chaiwuti Bannawat, Minister of MOI, exchanged documents regarding the bilateral cooperation.

1. Overview of Cooperation

(1) Eco-town Project

a) Project objective

The aim of this project is to help realize the Eco-industry Town Plan that MOI developed by introducing Japan's environmental and energy efficiency technologies in Thailand's industrial estates.

b) Activities to be carried out

A feasibility study (FS) will be conducted to identify suitable technologies to be introduced for the project (e.g., waste disposal technology and water treatment technology). Prior to the FS, candidate industrial estates for the FS will be determined by MOI.

(2) Pinch Technology Project

a) Project objective

The aim of this project is to identify and introduce effective energy-saving measures, such as optimal energy management and inter-plant power allocation to multiple plants in the Map Ta Phut Industrial Complex³ (tentative project site), which is located in Rayong Province in Eastern Thailand, by analyzing the energy efficiency of such plants using pinch technology.

b) Activities to be carried out

A preliminary survey for energy efficiency analysis using pinch technology will be conducted at the Map Ta Phut Industrial Complex. Prior to the survey, candidate plants located in the Map Ta Phut Industrial Complex as well as an organization to be Thailand's project implementation representative will be determined by MOI. In order to carry out the project efficiently, cooperation from private companies is necessary and the key to success will be having strong leadership from the organization in charge of the project site. Given this, the Industrial Estate Authority of Thailand (IEAT)⁴ has been proposed by MOI.

2. Contact Persons

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¹ The Eco-industry Town Plan is a project to develop and promote industrial estates in accordance with the Eco-town concept that was announced by MOI in 2009. The scope of this plan is broader than Japan's Eco Town Program as the plan encompasses not only the promotion of resource recycling, but also the use of energy-saving and renewable energy technologies as well as the involvement of local residents.

² Pinch technology is used to analyze the use of thermal energy within industrial estates and complexes. Suitable energy-saving measures such as inter-plant power allocation and exhaust heat recovery systems can be identified through the analysis in order to effectively improve energy efficiency of not only one plant but also an industrial estate as a whole.

³ The Map Ta Phut Industrial Complex is located southeast of Bangkok and accommodates Thailand's leading petrochemical plants.

⁴ The Industrial Estate Authority of Thailand (IEAT) was established in 1979 under the jurisdiction of MOI and it owns and manages industrial estates in Thailand. IEAT carried out pilot projects at five industrial estates, including the Map Ta Phut Industrial Complex, to develop and demonstrate environmentally-friendly industrial estates from 2001 to 2004.