

Abstracts

Development of Environmental Performance Indicators for Thai Industry

Contact: Dr. Methi Wecharatana
Department of Civil and Environmental Engineering
New Jersey Institute of Technology
Newark, New Jersey 07102
Tel: (973) 596-2472 / Fax: (973) 596-5790

and

Dr. Somporn Kamolsiripichaiporn
Greening of Industry Network - Asia
Environmental Research Institute
Chulalongkorn University
Phyathai Rd., Bangkok 10330, Thailand
Tel: 662-218-8111 / Fax: 662-218-8124
E-mail: GIN-ASIA@chula.ac.th

Speaker: Dr. Methi Wecharatana

Abstract:

In 1998 Chulalongkorn University (Bangkok, Thailand) and the New Jersey Institute of Technology (U.S) began a partnership project with funding from the Council of State Governments (CSG) and the United States-Asia Environmental Partnership. The project, designed to analyze and develop corporate environmental performance indicators for Thai industries, receives full cooperation and participation from three of Thailand's largest holding companies: CP, Siam Cement, and Saha Pattanapiboon. All three corporations provide access to their production facilities for data collection, interview, and inspection by project researchers.

After one year of project work, the researcher team has determined the most frequently used measurements of environmental intensity (material use, water and energy consumption, and waste per unit output) among various industries within these three holding corporations. Among the types of industry chosen for this study are electronics, food, footwear, chemicals, textile and pulp and paper. Subsequently, the researchers evaluated whether these measurements 1) meet the needs of corporate efforts to reach environmental goals and improve operational efficiency; and 2) have any external relevance to government, community, or academic organizations that are also conducting work in this field. This research also receives additional support from Thailand's Pollution Control Department and the Thailand Research Fund.