



EITC Renewable Energy Workshop 2009

Taipei Economic and Cultural Office in New York
(TECO in New York)

Monday, August 3, 2009

Theme

Opening Up Unlimited Opportunities in a Green, Renewable-Energy Based Economy

Description

Recent developments have cast a cloud over the renewable energy business. The capital markets have turned risk-averse, making financing for renewable and alternative energy hard to come by. Declining oil prices make it harder for cleaner transport fuels to compete with gasoline. In a slumping economy, governments will be reluctant to pass climate change legislation that will raise gas and electricity rates.

Despite the dark clouds and lack luster sentiment, renewable energy is still seen to be the way of the future as businesses and corporation realize that the world currently relies heavily on coal, oil, and natural gas for its energy. Fossil fuels are nonrenewable, that is, they draw on finite resources that will eventually dwindle, becoming too expensive or too environmentally damaging to retrieve. In contrast, renewable energy resources – such as wind and solar energy - are constantly replenished and will never run out. Meeting future energy needs in an environmentally responsible way requires scientific breakthroughs to efficiently generate, store, transmit, and use large amounts of power. Governments and businesses need to be constantly at the forefront of the sectors' technology and policies in order to capitalize on market opportunities and socio-infrastructure eco-development.

The United States is poised to transform its economy to create millions of new jobs and help create a cleaner, safer planet by investing in a green, renewable-energy based economy. The United States Congress has passed and President Obama has signed the American Recovery and Reinvestment Act of 2009 into law. This massive \$800 billions spending bill, being truly unprecedented in modern times, will drive new national strategies in renewable energy, smart grid, transmission, advanced vehicles, energy efficiency, and many other aspects of energy, environment, climate and sustainability.

The EITC is proud to host the 2009 Renewable Energy workshop. The workshop will discuss of the following topics:

- State of New Jersey's Clean Energy Solutions: Government, Academia, and Industry Working Together
- Renewable Energy Opportunities – Business and Research
- Renewable Energy Innovations – Generation, Storage, and Use

Registration

08:30am - 09:00am, Monday, August 3, 2009

Main Auditorium, TECO in New York

1 East 42nd Street, New York, NY 10017
Tel: 212-752-2340, Fax: 212-826-3615

Welcome remarks

09:00am - 09:10am

Amb. Kenneth Liao

Director General of Taipei Economic and Cultural Office in New York

Opening speech

09:10am - 09:30am

Conference Co-chair & Organizer: **Dr. Hsin-Hsiung Chang**, Director, Science & Technology, TECRO

Minister Lou-Chuang Lee

National Science Council, Republic of China (Taiwan)

Session I: State of New Jersey's Clean Energy Solutions: Government, Academia, and Industry Working Together

09:30am - 11:00am

Session Chair: **Ms. Jean Chang**, International Trade Specialist, New Jersey Economic Development Authority

"New Jersey and Taiwan: Opportunities and Synergy"

Ms. Jean Chang

International Trade Specialist
New Jersey Economic Development Authority (NJEDA)

"New Jersey's Energy Master Plan"

Mr. Kenneth M. Esser, Jr.

Chief Energy Advisor to Governor Jon S. Corzine
Office of the Governor, State of New Jersey

"New Jersey's Clean Energy Solutions"

Mr. Joseph L. Fiordaliso

Commissioner, New Jersey Board of Public Utilities

"Smart Power Electronics for Commercial-scale Distributed Generation Interconnection"

Mr. Darren Hammell

Executive Vice President of Business Development
Princeton Power

"Technical, Environmental and Economic Advantages of Power Generation with Biofuels"

Mr. Marty Borruso

CEO, Fuel Bio Holdings

“New Jersey Is Pioneering Offshore Wind in the USA”

Mr. Nelson Garcez, Jr.

Vice President, Generation and Technical Services
PSEG Global

“Why We Chose New Jersey?”

Mr. Michael Stern

Director, North American Operations
CQM Ltd.

Break

11:00am - 11:20am

Keynote speech

11:20am - 12:10pm

Session Chair: **Prof. Minking Chyu**, University of Pittsburgh

“Thermal Transport in Renewable Energy Systems”

Prof. Yogesh Jaluria

Board of Governors Professor
Interim Dean, School of Engineering
Rutgers, the State University of New Jersey

Lunch

12:10pm - 1:30pm

Session II: Renewable Energy Opportunities – Business and Research

01:30pm - 03:30pm

Session Chair: **Prof. Wei-Jen Lee**, Director of the Energy Systems Research Center, the University of Texas at Arlington

“Hydrogen Economy in Utility Power Generation”

Prof. Minking Chyu

Chair, Department of Mechanical Engineering and Material Science
Leighton Orr Professor of Engineering
University of Pittsburgh

“Accelerate the Path to Renewable Energy by Business Model Innovation”

Dr. Sean Shaw-Hwa Wang

President, ITRI International
(a subsidiary of Industrial Technology Research Institute, Taiwan)

“Enabling Technologies for Customer Demand and Budget Management in the Deregulated Environment”

Prof. Wei-Jen Lee

Department of the Electrical Engineering

Director, the Energy Systems Research Center
The University of Texas at Arlington

“Patented Environmentally Friendly Technology for Low-Cost Solar-Grade Silicon Manufacturing”

Mr. Peter Mei

Chairman & CEO, 21-Century Silicon, Inc.

Break

03:30pm - 03:50pm

Session III: Renewable Energy Innovations – Generation, Storage, and Use

03:50pm - 05:50pm

Session Chair: **Dr. Jen-Yao Chung**, Senior Manager, IBM T.J. Watson Research Center

“Development of a Passive Micro Direct Methanol Fuel Cell”

Prof. Chin Pan

Dean, College of Nuclear Science, National Tsing Hua University

“Sensor-related Energy Saving Technologies”

Prof. Ping-Hei Chen

Distinguished Professor, Department of Mechanical Engineering, National Taiwan University

Program Director, Department of Engineering and Applied Science, National Science Council, Republic of China (Taiwan)

“Third Generation Solar Cell”

Prof. Wei-Fang Su

Department of Material Science and Engineering, National Taiwan University

“Biomass-Ethanol Conversion: A Renaissance of Fermentation Technologies”

Prof. J.H. David Wu

Department of Chemical Engineering and Department of Biomedical Engineering, University of Rochester

Closing remarks

05:50pm - 06:00pm

Conference Co-Chair: **Dr. Sean Shaw-Hwa Wang**, President, ITRI International