

**APEC's Expert Group
On Energy Efficiency & Conservation (EGEEC)**

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Bi-Annual Meetings of EGEEC

- **EGEEC formed by United States in 1992**
- **24th EGEEC meeting next month in Tokyo**
- **EGEEC is one of 5 energy-related expert groups in APEC**
- **ORNL represents EE/RE at EGEEC meetings**
- **Meetings are springboard for all APEC energy-efficiency work**
- **Over last 5 years, EE/RE has leveraged >\$2 million in cash and in-kind support for its EGEEC activities**
- **Chinese Taipei is current chair of the group**
- **United States is vice-chair of the group in 2004-2005**

EGEEEC Activities

- 1. Workshops**
- 2. Energy Standards Information System (ESIS)**
- 3. Innovative financing for energy-efficiency programs**
- 4. Energy for Sustainable Communities Program**

1. Workshops

- **ORNL has conducted 4 APEC workshops in last 5 years**
 - **Workshop on Emerging, Energy-Efficient Industrial Technologies; Honolulu, Hawaii; 26-28 October 1998**
 - **Workshop on Energy Efficiency in Commercial Buildings; Mexico City, Mexico; 22-24 March 1999**
 - **Workshop on Financing and Implementing Energy-Efficiency Programs in a Restructured Electric Industry; Bangkok, Thailand; 25-27 September 2000**
 - **Workshop on Distributed Energy Resources; Mexico City, Mexico; 8-10 April 2002**
- **Workshops serve multiple purposes**
 - **Build capacity in APEC economies**
 - **Tie the U.S. private sector into APEC economies**
 - **Lead to more in-depth work in specialized areas**
 - **Energy for Sustainable Communities Program**
 - **Inter-Utility DSM Liaison Group**

2. Energy Standards Information System (ESIS)

- **ESIS is a web-based information system on energy standards**
 - **Testing procedures**
 - **Minimum energy performance standards**
 - **Labeling**
- **ORNL has supported EE/RE in this activity since it was initiated by energy ministers in 1996**
- **ORNL continues to support (1) data collection and (2) expansion of ESIS into non-APEC economies**
- **CLASP submitted a proposal to co-sponsor ESIS**

3. Innovative Financing for EE Projects

- **ORNL wrote the original proposal in 2002 to—**
 - **Develop financing mechanisms for energy efficiency projects in Mexico and the Philippines**
 - **Use the Mexico and Philippines cases as templates for other APEC economies**
- **Project was funded by APEC in 2003 at \$143,600**
- **ORNL wrote the outstanding RFP**
- **ORNL will oversee project execution over the next 2 years**

4. Energy for Sustainable Communities Program (ESCP)

- **Organizational meeting held in Monterey, California in conjunction with EGEEEC meeting in August 1996**
 - **Liaison group formed**
- **Because of EWG reorganization, the liaison group was changed to a program under EGEEEC in 2001 (Energy for Sustainable Communities Program) under the leadership of EE/RE**
- **ESCP's primary implementation strategy is a community outreach project**

Community Outreach Project

- **3 aspects of the project—**
 - **Profiling a community's energy situation**
 - **Institutionalizing a sustainable energy planning process**
 - **Financing and implementing sustainable energy projects**
- **Different aspects of the project emphasized in different APEC communities**

Participating Economies

- **Australia**
- **People's Republic of China**
- **Indonesia**
- **Mexico**
- **Philippines**
- **Thailand**
- **United States**
- **Vietnam**

Participating Communities

- **Melbourne, Australia**
- **Chizhou, China**
- **Guanghan, China**
- **Linzhou, China**
- **Zhangjiagang, China**
- **Bogor, Indonesia**
- **Samarang, Indonesia**
- **Xalapa, Mexico**
- **Nonthaburi, Thailand**
- **Rayong, Thailand**
- **Portland, OR, USA**
- **Danang, Vietnam**
- **Hanoi, Vietnam**

Example 1: Guanghan, China

- **ORNL supports effort to design and construct 2 sustainable villages**
 - **Longju Sustainable Village**
 - **Hui Long Resettlement Village**

Example 2: Qijing, China

- **ORNL supports effort on 7 projects—**
 - **Promote sustainable energy planning**
 - **Assist in design of a sustainable economic development zone**
 - **Introduce sustainable infrastructure in two rural townships**
 - **Promote the use of solar technologies in the district**
 - **Identify renewable energy applications other than solar**
 - **Create a sustainable development center**
 - **Promote cutting-edge renewable energy technologies**

Future Directions

- In the past, ESCP's primary implementation strategy was a community outreach project led by an *ESCP team*
- In the future, ESCP would like to develop sustainable development centers in individual economies led by *host economies*
 - Capacity building in host economies
 - Entrée for U.S. private sector
 - Access to many more communities

ESCP Sustainable Development Centers

- **ESCP is in the process of creating a sustainable development center in Beijing, China**
 - **Hosted by Ministry of Science and Technology**
 - **Led by Energy for Sustainable Communities Program**
 - **FY 2004 funding secured to commence collaboration**
- **ESCP is supporting the creation of a sustainable development center in Shanghai, China**
 - **Hosted by Shanghai Energy Conservation Center**
 - **Led by Oregon Department of Energy and Portland General Electric**
 - **FY 2003 funding secured for a charrette**
- **Vietnam (???)**
- **Mexico (???)**