



Cooperative Energy Efficiency Design for Sustainability (CEEDS)

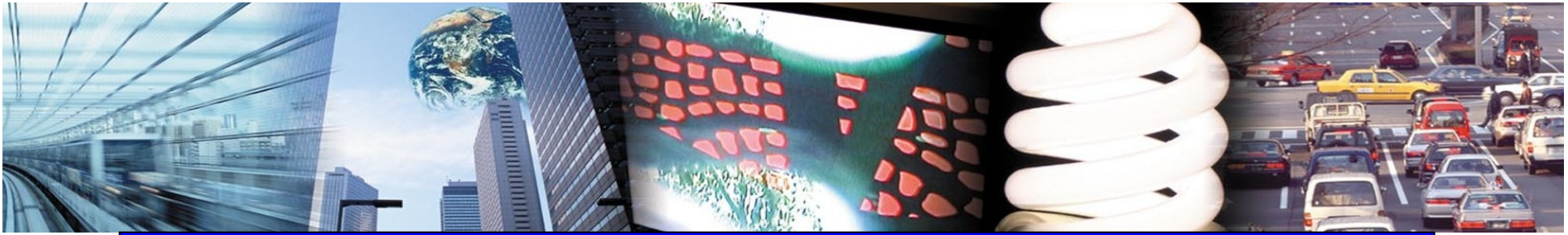
APEREC Workshop, Santiago, Chile

20 April 2009

Ralph D. Samuelson

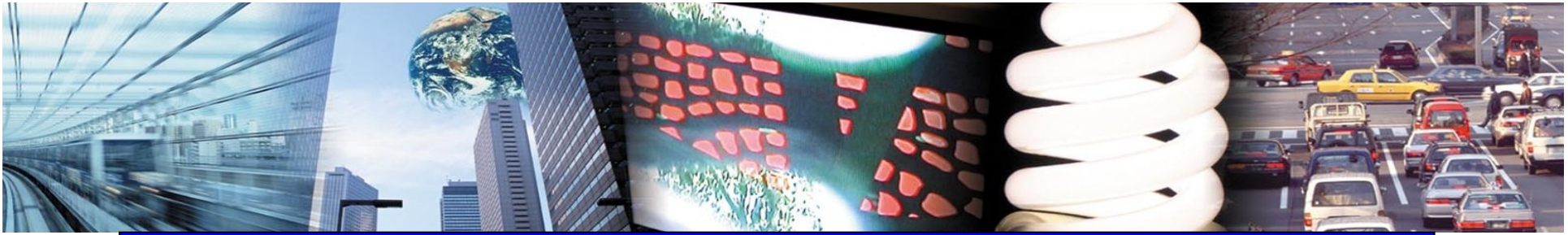


Asia-Pacific
Economic Cooperation



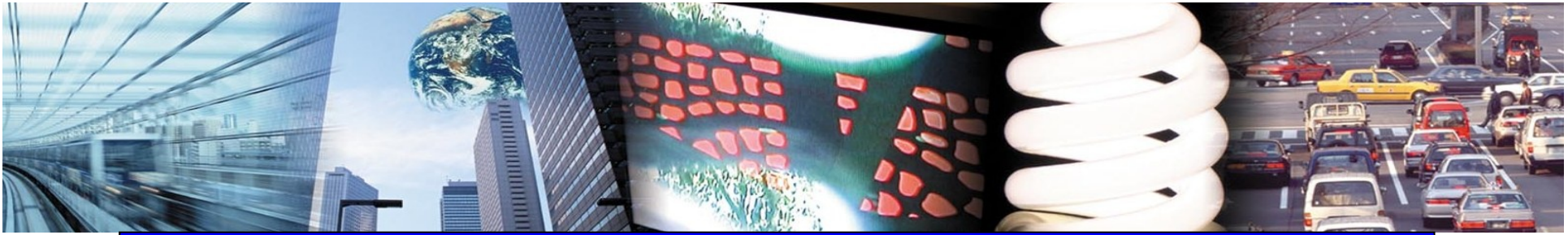
Contributors to a Sustainable Future

- Energy Efficiency
- Renewable Energy
- Carbon Capture and Storage
- Nuclear
- Alternative vehicle technologies



Energy Efficiency (EE) Is Key

- Buys time
- Limits demand to a level where alternative energy supplies will be feasible
- Much can be done with existing technology
- Good all around: saves money, promotes competitiveness and economic development



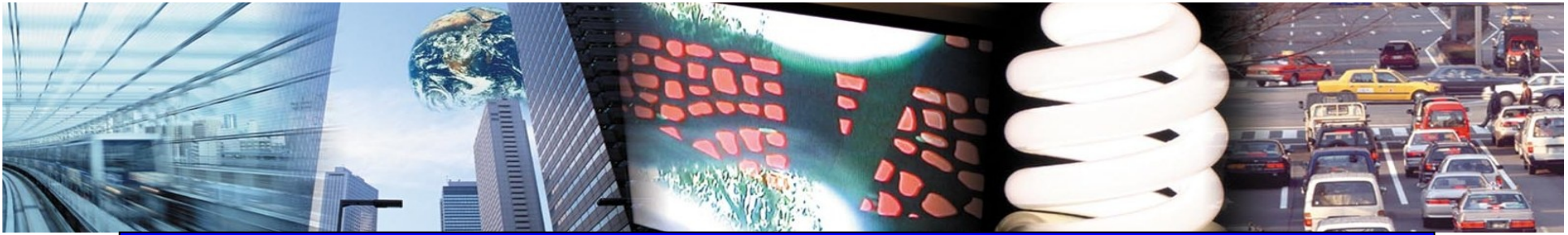
Energy Ministers' Declaration

- Darwin May 2007 –
 - APEC Economies encouraged to set individual EE goals and action plans
 - EWG to collaborate with IEA to develop EE indicators and compile best practices
 - EWG to strengthen efforts to share information on EE policies and measures, identify effective EE approaches, review progress toward EE goals



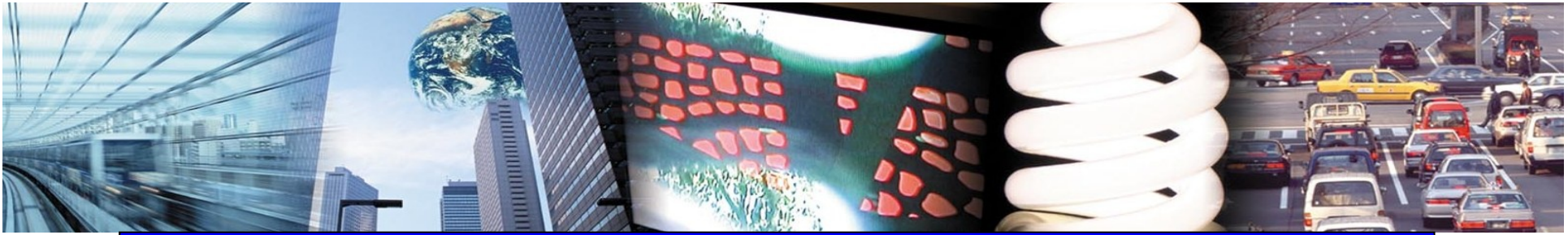
APEC Leaders' Declaration

- Sydney – September 2007 –
 - Work toward APEC-wide aspirational goal of reduction in energy intensity of at least 25% by 2030
 - Encouraged all APEC economies to set individual goals and action plans for improving EE



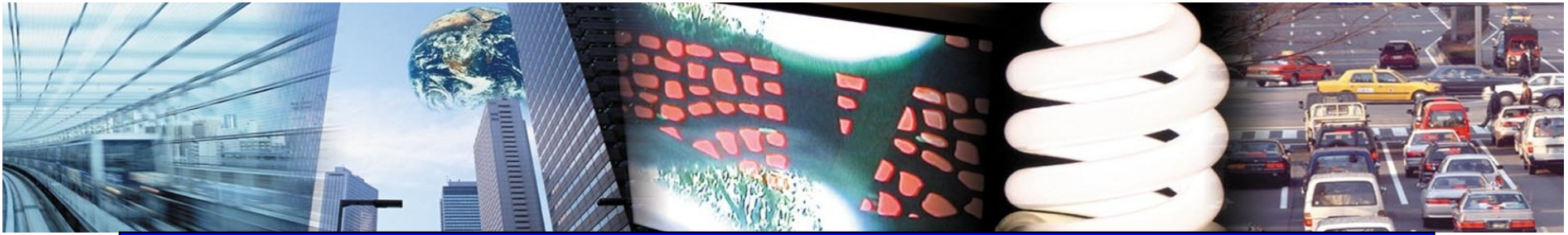
Developing Economy Needs

- EE provides big benefits
 - Fast-growing energy demands
 - Opportunity for efficient investment
 - Needs for improving energy infrastructure
 - Energy intensive industry
- More limited capabilities to implement EE
 - Limited exposure to experience of other economies



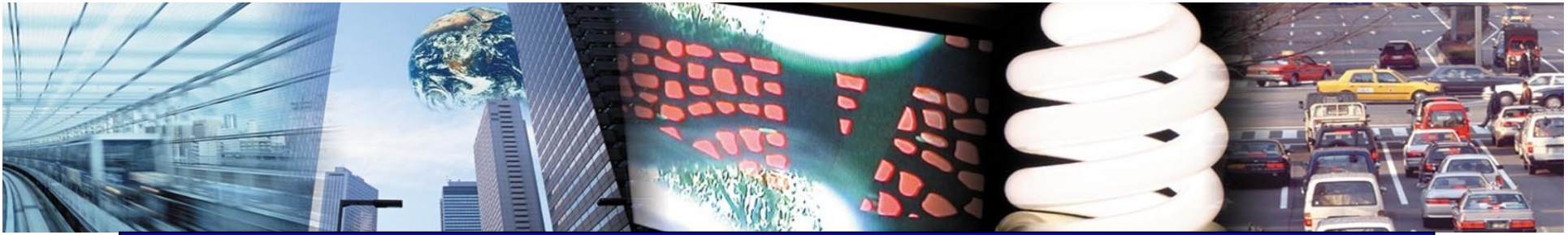
Goals of CEEDS

- Examine potential of 'high-performance' EE policies and measures in developing APEC economies
- Examine how to implement these policies and measures in developing APEC economies
- Build capability to formulate and implement EE action plans in developing APEC economies



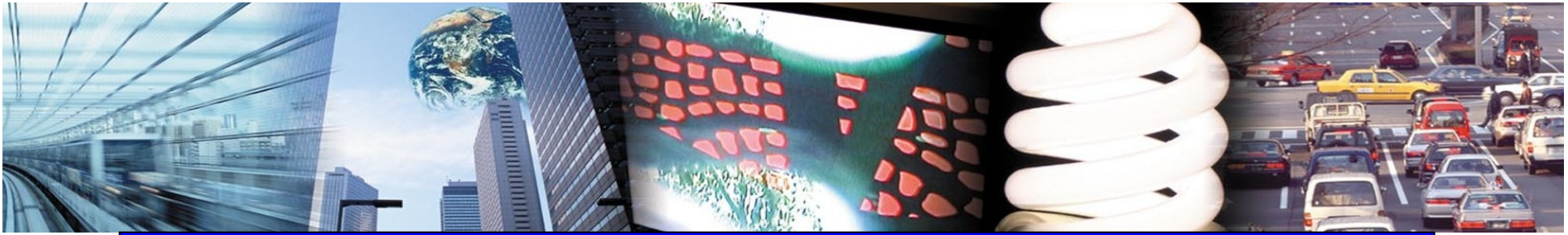
CEEDS vs. PREE

- **CEEDS**
 - Focus on one sector at a time for multiple economies
 - Focus on future measures
- **PREE**
 - Focus on one economy at a time for multiple sectors
 - Focus on improving existing measures



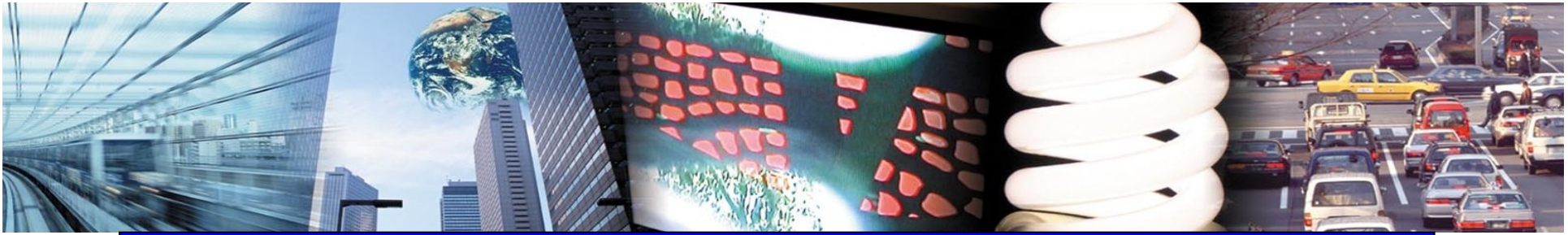
Topics of CEEDS Process

- Each CEEDS process will focus on a single sector, and a single set of measures in that sector
 - Sector selection will depend upon availability of ‘host economy’
 - Measures for sector to be selected in consultation with host economy and prospective developing economy participants
- Examples:
 - Mandatory EE performance requirements or labels for appliances
 - Building codes



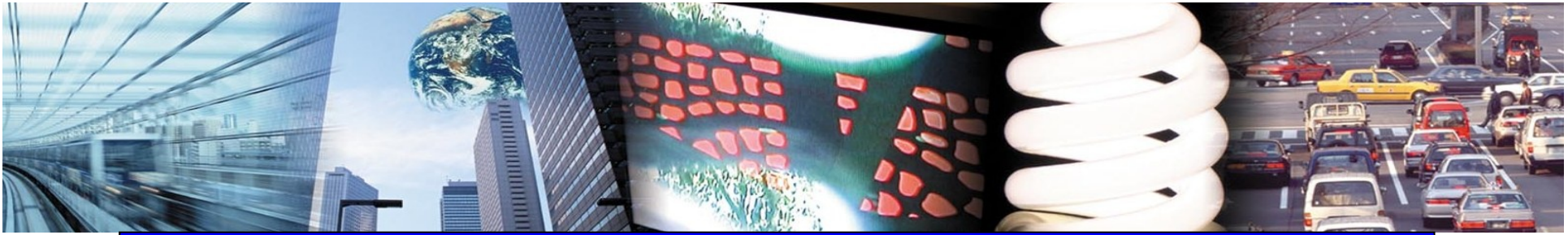
Two Parts of CEEDS

1. Potentials analysis of the selected sector
 - An APERC research project
 - Review by CEEDS delegates and EWG
2. Two workshops on identifying and implementing 'high performance' EE policies and measures for the sector
 - Delegates responsible for results
 - APERC to organize, moderate, and report outcomes and participant suggestions



Role of Host Economy

- 'Host' economy should have high-performance EE practices for the sector which they believe could be adapted to other economies
- Host economy could be developed or developing economy
- Host economy should offer appropriate venue for workshops
- APERC will work with host economy to organize workshops



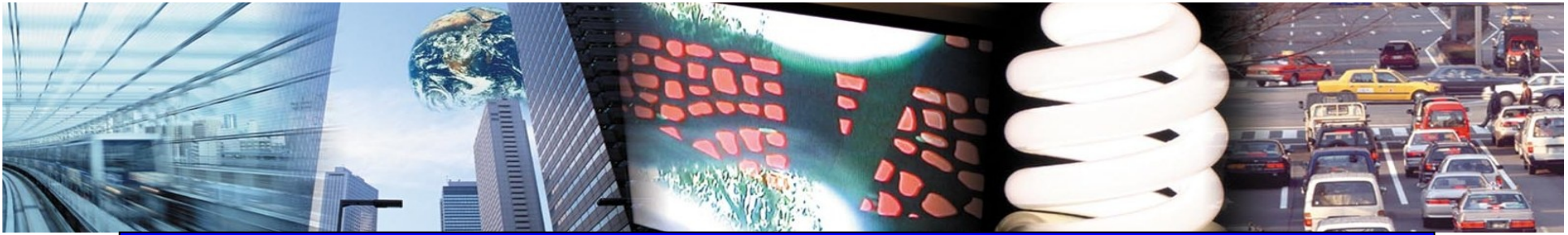
1. The Potentials Analysis

- For each participating developing APEC economy, APERC will estimate the potential energy savings of each selected measure in 2015, and 2030
- Will provide a reference for the workshops



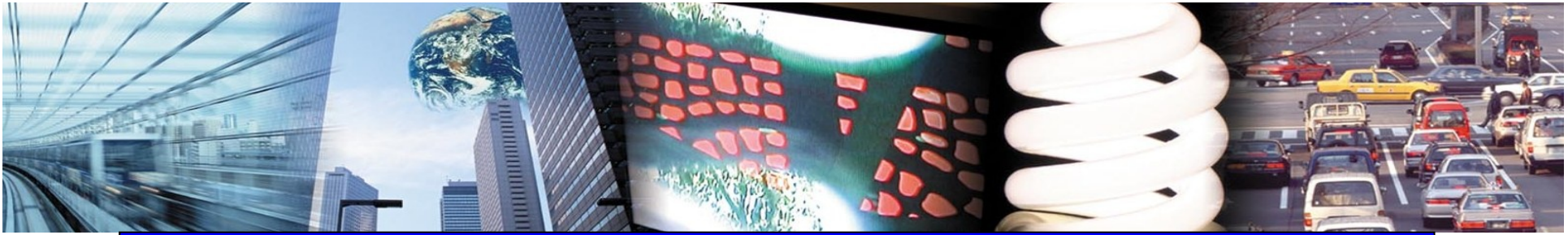
Estimating Potentials

- Estimating potentials will be challenging given data gaps
- APERC will draw on
 - APERC's own *APEC Energy Supply and Demand Outlook*
 - Existing potentials studies
 - Government energy consumption data
 - Estimates from trade associations and NGOs
 - Advice from economy delegates
 - Advice from IEA
 - Analogies with economies where better data may be available



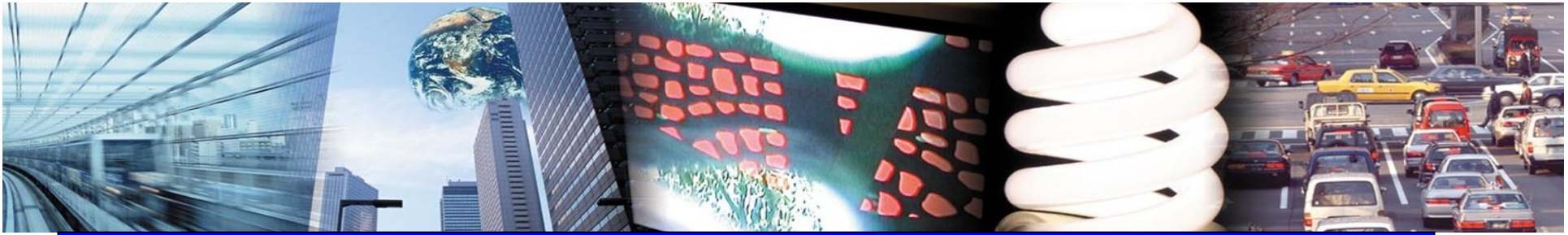
2. The Workshops

- Two workshops will be held for each sector
- Length of workshops will depend upon agenda, but will probably be approximately 3 days.
- Each APEC developing economy is invited to participate by sending a delegate (or possibly two)



The First Workshop

- At the first workshop, the host economy will arrange for several experts from their economy to discuss their policies and measures
- Speakers will discuss policies and measures from diverse perspectives
 - Central government
 - State/provincial/local government
 - Business/private sector
 - Consumers



Additional Speakers at First Workshop

- Speakers from other economies
- Speakers from EWG expert groups (such as EGEEEC)
- Speakers from EWG guest organizations (such as IEA)



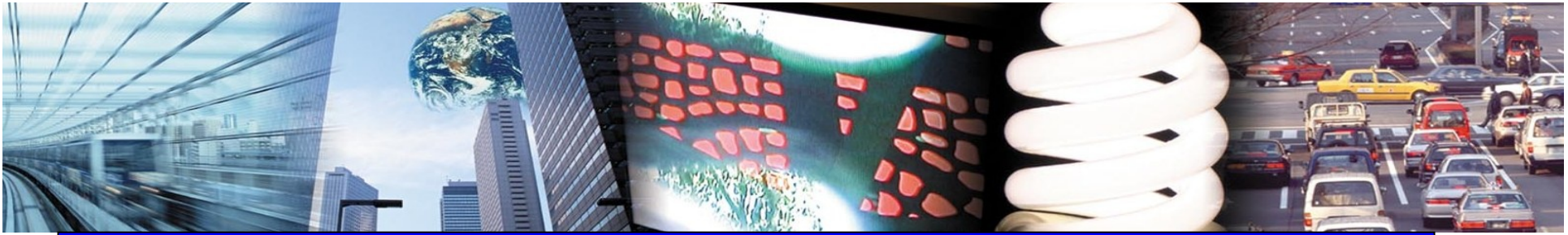
Between the Workshops

- Delegates prepare a short proposal for how their economy might implement high-performance EE policies and practices in the selected sector, taking into account the unique circumstances of their economy



Second Workshop

- Attended by same delegates as the first workshop, plus as many speakers as possible from first workshop
- Each delegate presents their proposal
- Group discusses the proposal
- APERC to prepare a report summarizing proposals and suggestions



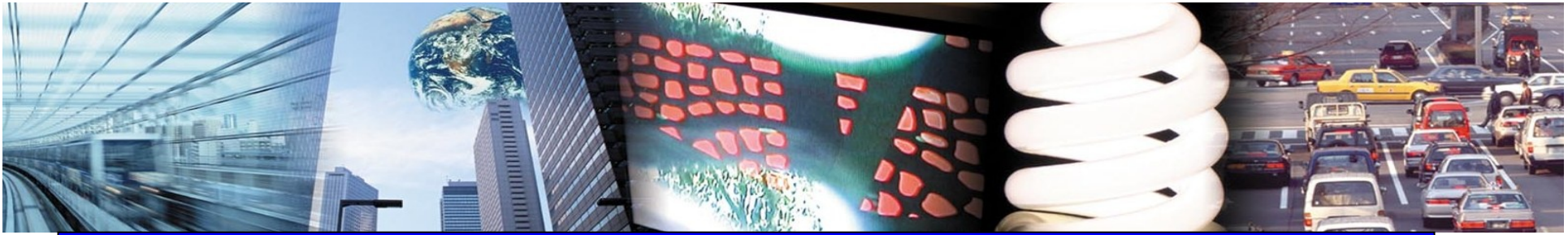
Follow-Up

- APERC to estimate potential energy savings for delegates proposals
- Each delegate may, if they wish, revise proposal based on feedback received at second workshop



Benefits

- Strengthens efforts to share information on EE policies
- Identifies effective energy efficiency approaches
- Potentials estimates a first step toward reviewing progress on EE goals
- Summary report can relay key messages for policymaker consideration
- Process to designed to facilitate capacity-building to actually implement high-performance EE policies



Discussion

Your questions and comments invited!