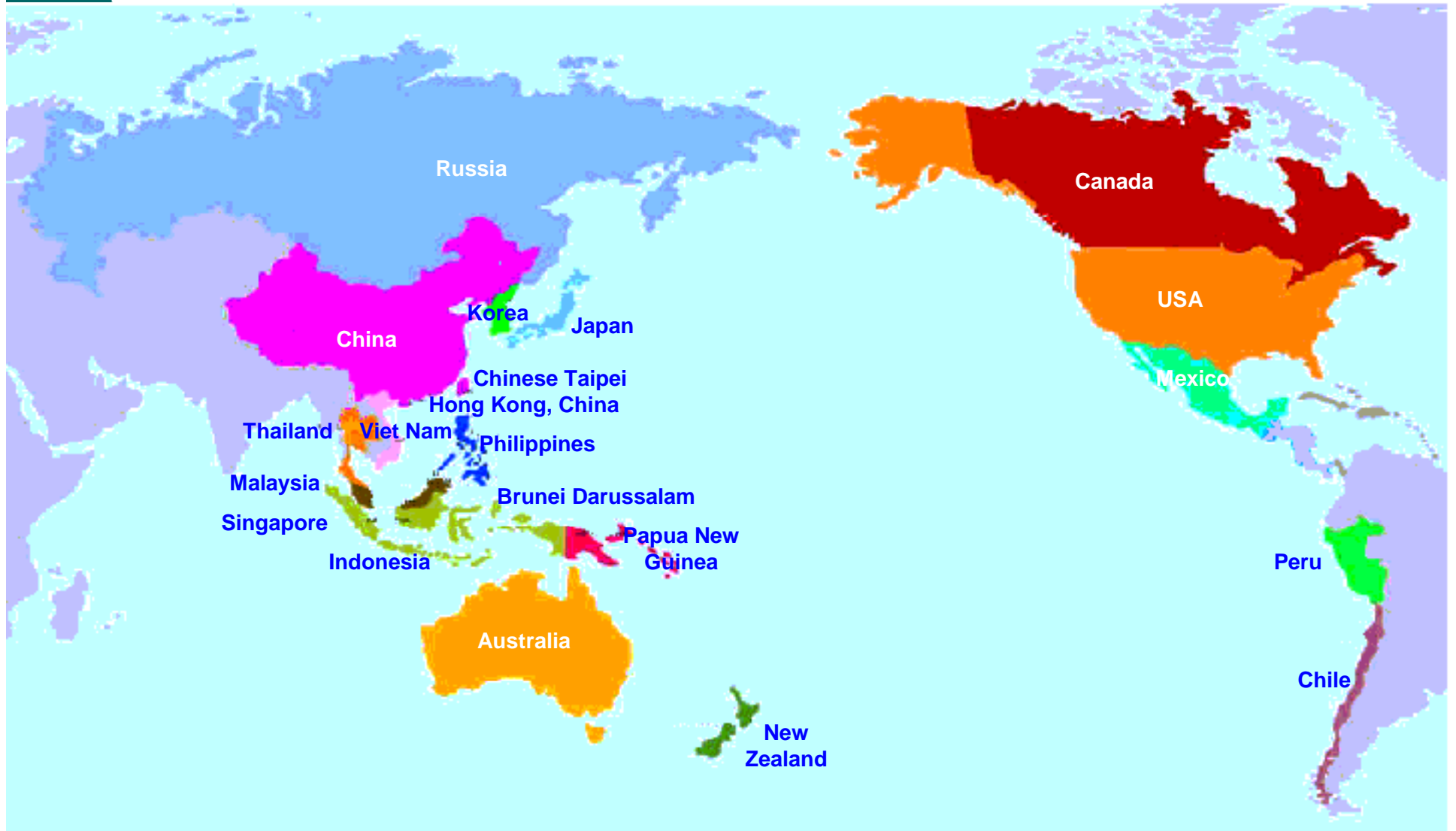




APEC Energy Working Group: A Broad, Diversified Agenda with Plenty of Room for Business Input

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APEC Accounts for Half the World's Economic Output and Energy Use





APEC Structure Allows Key Policy Findings to Reach the Top

- Annual Leaders Summit
- Periodic Energy Ministers Meetings (EMM)
- Energy Working Group (EWG)
- EWG Expert Groups
 - Energy Efficiency and Conservation
 - New and Renewable Energy Technology
 - Clean Fossil Energy
 - Energy Data and Analysis
 - Biofuels Task Force
 - Energy Trade and Investment Task Force
- Asia Pacific Energy Research Centre



Expert Group on Clean Fossil Energy

- [Australia](#) (Dept of Resources, Energy and Tourism)
- [Canada](#) (Natural Resources Canada)
- [China](#) (National Development and Reform Commission)
- [Indonesia](#) (Ministry of Energy and Mineral Resources)
- [Japan](#) (Agency for Natural Resources and Energy)
- [Korea](#) (Korea Institute of Energy Research)
- [Mexico](#) (Secretariat for Energy)
- [Philippines](#) (Department of Energy)
- [Russia](#) (Ministry of Industry and Energy)
- [Chinese Taipei](#) (Ministry of Economic Affairs)
- [Thailand](#) (Energy Policy and Planning Office)
- [United States](#) (National Energy Technology Laboratory)
- [Viet Nam](#) (Ministry of Industry)



Clean Fossil Expert Group Themes

○ Natural Gas Trade

- LNG Public Education and Information Initiative
- Potential for Growth of Gas as Clean Energy

○ Cleaner Coal-Fired Power Plants

- Options to reduce plant CO₂ emissions
- Best practices on cost-effective upgrades
- Regulatory strategy to promote cleaner plants
- Environmental monitoring of plant operations

○ Carbon Capture and Storage

- Geological storage potential
- Workshops on assessing storage potential



Nine economies active in Expert Group on Energy Efficiency and Conservation

- [Australian](#) Greenhouse Office
- Natural Resources [Canada](#)
- [China](#) Standard Certification Center
- [Japan](#) Energy Conservation Center, METI
- [Korea](#) Energy Management Corporation
- [Mexico](#) National Commission for Energy Conservation
- [New Zealand](#) Energy Efficiency and Conservation Authority
- [Chinese Taipei](#) Bureau of Energy, ITRI
- [United States](#): DOE with support from Alliance to Save Energy, Lawrence Berkeley National Laboratory



APEC Energy Ministers and Leaders on the Key Role of Energy Efficiency

- EE clearly noted as a component of **APEC Energy Security Initiative**, reaffirmed annually since 2001.
- **Transport fuel efficiency** noted by EMM-7 (Korea, 2005) as vital to reducing oil import dependency.
- Efficiency confirmed as important for stationary energy sector (**electric power, buildings and industry**) by EMM-8 (Darwin, Australia, 2007)



Projects on Energy Efficient Buildings

- Comparison of **Building Energy Codes** in APEC Economies
- **Energy-Saving Doors and Windows:** Survey of Policies and Programs
- **Cool Roofs** in APEC Economies: Best Practices and Potential Benefits
- Harmonization of Standards and Labeling for **Compact Fluorescent Lightbulbs** to Reduce Trade Barriers



Projects on Fuel-Efficient Transport

- Policies for Fuel-Efficient Transport
 - Survey completed July 2008
 - Follow up workshop March 2009
 - Revision of survey with new information
- Policy approaches to consider
 - **Improved fuel economy** for cars and trucks
 - **Bus Rapid Transit** (faster and more frequent buses to encourage shift to buses from private vehicles)
 - **Transit-Oriented Development** (urban planning to reduce traffic and encourage use of mass transit)
 - **Intermodal Freight** (shift from trucks to more fuel-efficient modes like ships, barges and rail)



15 Economies in Expert Group on New and Renewable Energy Technologies

- **Australian** Department of Resources, Energy and Trade
- **Canada** Agriculture and Agri-Food Canada; Natural Resource Canada
- **China** Department of New and Renewable Energy, National Energy Administration; Energy Research Institute
- **Hong Kong, China** Electrical and Mechanical Services Dept.
- **Indonesia** Directorate of New Renewable Energy and Energy Conservation, Ministry of Energy and Mineral Resources
- **Japan** New Energy and Industrial Technology Development Organization (NEDO); Institute of Energy Economics Japan (IEEJ)
- **Korea** Energy Management Corporation
- **Malaysia** Ministry of Energy, Telecommunications and Communications; Malaysia Energy Center
- **Mexico** Secretariat for Energy (SENER)
- **New Zealand** Resource Development Limited
- **Chinese Taipei** Bureau of Energy, Ministry of Economic Affairs; Industrial Technology Research Institute (ITRI)
- **Philippines** Department of Energy
- **Thailand** Department of Alternative Energy Development and Efficiency (DEDE); Thailand Institute of Scientific and Technological Research (TISTR)
- **United States** Department of Energy; Argonne National Laboratory
- **Vietnam** Ministry of Industry and Trade



Renewable energy project themes

- Utility-based RE **financing** mechanisms
- Best practices for RE in **urban** areas
- RE and EE in **commercial buildings**
- Successful **business models** for RE
- Guidelines for **biodiesel standards**
- **Biorefineries**, energy and trade
- **Grid interconnection** of RE



Four-fifths of All APEC Economies Participate in the Biofuels Task Force

- **Australian** Department of Resources, Energy and Trade; Bioenergy Australia; Commonwealth Science and Industrial Research Organisation (CSIRO);
- **Canada** Agriculture and Agri-Food
- **Chile** Ministry of Agriculture
- **China** Energy Bureau and Energy Research Institute
- **Hong Kong** Electrical and Mechanical Services Dept.
- **Indonesia** Ministry for Economic Affairs, Ministry of Energy and Mineral Resources
- **Japan** Observers: New Energy and Industrial Technology Development Organization (NEDO); Institute of Energy Economics Japan (IEEJ)
- **Korea** Ministry of Commerce, Industry and Energy (MOCIE); Korea Institute of Energy Research; Korea Energy Economics Institute
- **Malaysia** Ministry of Plantation Industries & Commodities; Malaysian Palm Oil Board
- **Mexico** Secretariat for Energy (SENER)
- **New Zealand** Resource Development Limited
- **Philippines** Department of Energy
- **Peruvian** Association of Sugar and Biofuel Producers; Maple Corporation
- **Russian** National Biofuels Association
- **Chinese Taipei** Industrial Technology Research Institute (ITRI)
- **Thailand** Dept. of Alternative Energy Development and Efficiency (DEDE); Thailand Institute of Scientific and Technological Research (TISTR)
- **United States** Dept. of Energy; Dept. of Agriculture, Argonne National Laboratory



Biofuel TF Research Themes

- Biofuel **Resource Assessments** and Assessment Capabilities in APEC
- Biofuels on **Marginal Lands**
- Biomass **Resource Elasticity**
- Biofuel **Employment** Opportunities
- Potential for Biofuels from **Algae**
- **Sustainable** Biofuels Development
- Biofuels T&D **Infrastructure**



Energy Trade and Investment TF

- Established pursuant to Roundtable in Cairns, Australia, September 2008
- Cope with key barriers such as
 - Lack of clear carbon price in market
 - Lack of transparent investment regimes
- Initial project ideas include
 - Survey tariff and non-tariff barriers to trade in energy goods and services
 - Estimate costs of key trade barriers



The future is in our hands....

- Business input is welcome!
 - Proposals for APEC-funded projects
 - Proposals (funding?) for self-funded projects
 - Expert contributions to projects underway
- Energy businesses include
 - Oil and gas companies
 - Powerplant equipment manufacturers
 - Wind and solar component suppliers
 - Makers of energy-efficient appliances, equipment, roofs, doors and windows
 - Manufacturers of energy-efficient cars
 - Builders of powerplants and biorefineries
 - Many others

Thanks for listening!

