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2. Toward the APEC Energy Demand and Supply Outlook 6th Edition

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The APEC Energy Outlook

- APERC has historically produced an *APEC Energy Demand and Supply Outlook* every 3 or 4 years
- The 5th Edition was published in February 2013
- Planning is now underway for the 6th Edition
**Goals of the Outlook Project**

- Help facilitate APEC cooperation by providing policymakers with
  - A *useful reference work* on energy in the APEC region
  - A *statistically-supported* review of the long-term *challenges and opportunities* facing the APEC economies individually and as a region
  - Provide *useful suggestions and inspiration* to policymakers in APEC economies who wish to pursue more sustainable energy policies
  - *Demonstrate the benefits that alternative policies* might have on energy security, environmental protection, energy costs, etc.
- Draws on expertise of APERC researchers, supplemented by advice and feedback from APEC government experts
Outlook Model Structure

KEY ASSUMPTIONS
- Macroeconomic Data
  - Oil Prices
- Domestic Fossil Fuel Production
- Biofuel Content of Liquid Fuels
- Own-Use Rates
- Heat Production Market Shares and Efficiencies by Fuel
- CO₂ Emission Factors

RESULTS TABLES
- Macroeconomic Data
- Energy Production and Imports
  - Own Use and Transformation Losses
- Final Energy Demand
- Energy Intensities
- CO₂ Emissions

Industrial and Non-Energy Demand Model
Transport Demand Model
Other Sector (Residential/Commercial/Agricultural) Demand Model
Electricity Supply Model
Outlook Model Enhancements in Progress

- Upgraded Transportation Fleet Model based on STELLA software
- Upgraded Electricity Supply Model based on GAMS software
- New Macroeconomic Model based on the work of CEPII (French national economic research institute)
- New Industrial Demand Models
“Business As Usual” (BAU) – Assumes existing policy continues, including policies in process of implementation (legislation already approved)

Three Alternative Cases:

- High Gas Scenario
- Alternative Urban Development Scenarios
- Virtual Clean Car Race
6th Edition Topical Work in Progress

- Barriers to Shale Gas Development in APEC economies
- Barriers to Geothermal Electricity Development in APEC economies
- Barriers to Combined Heat and Power development in APEC economies
- Benefits of Electricity Interconnection in Northeast Asia
- Projecting Long-Run Light Vehicle Saturation in Developing Economies
- Space Cooling as a Development Goal
Preliminary Schedule for Outlook 6th Edition

- Feb 2014 – Initial model results for BAU scenario created for all economies
- March 2014 – Alternative scenarios designed and agreed-upon
- April 2014 – Example economy review written and agreed-upon
- May 2014 – Model results for BAU case finalized for all economies
- June 2014 – Initial drafts of economy reviews (Volume 2) completed for all economies except for alternative case discussions
- July 2014 – Models results for alternative cases finalized for all economies
- August 2014 – Alternative case discussions added to economy reviews
Preliminary Schedule for Outlook 6th Edition

- September 2014 – Initial drafts of topical discussions (Volume 1) completed
- October 2014 – Economy reviews (Volume 2) sent to editor
- November 2014 – Topic discussions (Volume 1) sent to editor
- December 2014 – Volume 2 editing completed
- January 2015 – Volume 1 editing completed
- February 2015 - External reviews begin of draft Outlook 6th Edition
- March 2015 – Preparations for Outlook 6th Edition publication completed, including web site design and publicity plan
Thank you for your kind attention

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