



**EWG 46, Da Nang, Viet Nam**  
**18 November 2013**

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

**Ralph D. Samuelson**  
**Vice-President, APERC**



# The APEC Energy Outlook



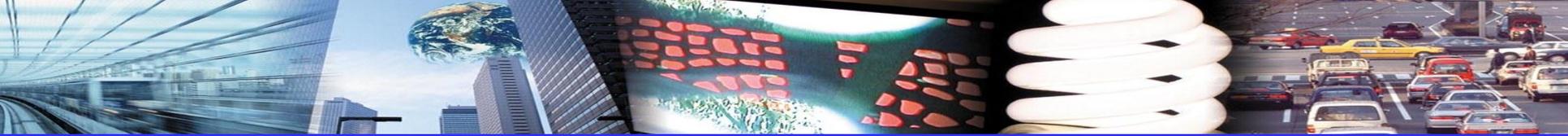
## APEC

### Energy Demand and Supply Outlook 5th Edition

February 2013

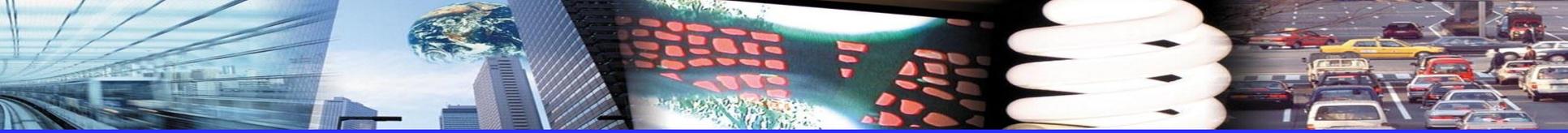


- APERC has historically produced an *APEC Energy Demand and Supply Outlook* every 3 or 4 years
- The 5<sup>th</sup> Edition was published in February 2013
- Planning is now underway for the 6<sup>th</sup> Edition

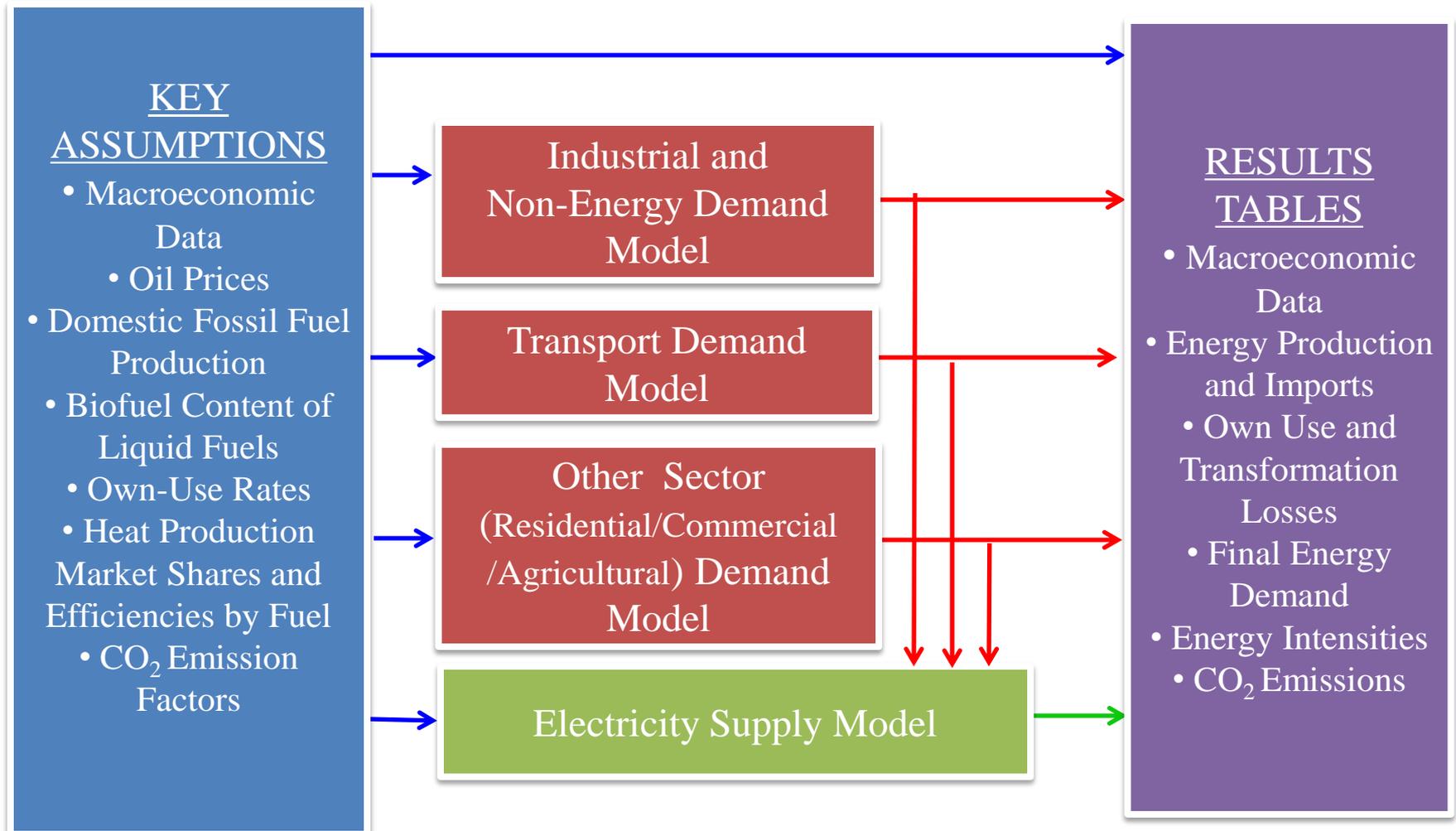


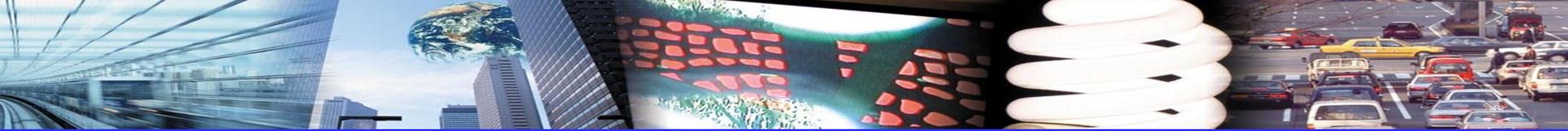
## *Goals of the Outlook Project*

- 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



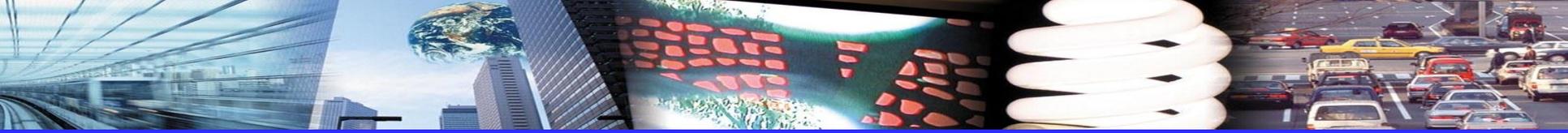
# Outlook Model Structure





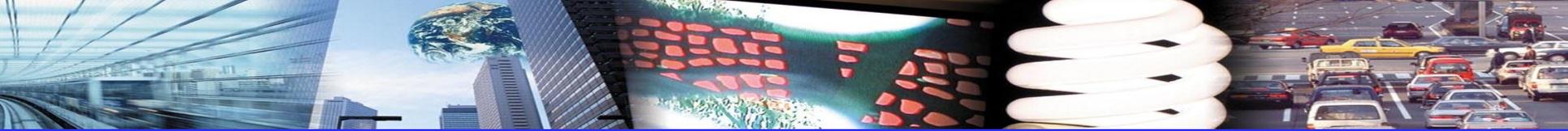
## *Outlook Model Enhancements in Progress*

- 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



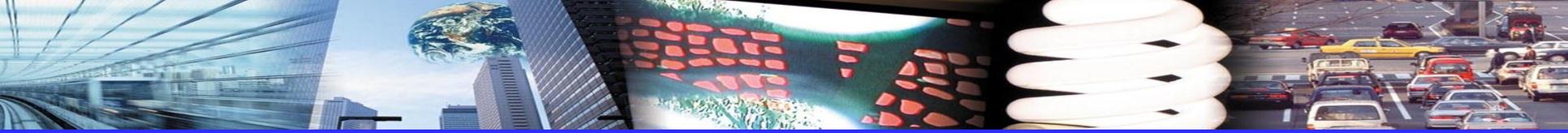
## *5<sup>th</sup> Edition Cases Examined*

- “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



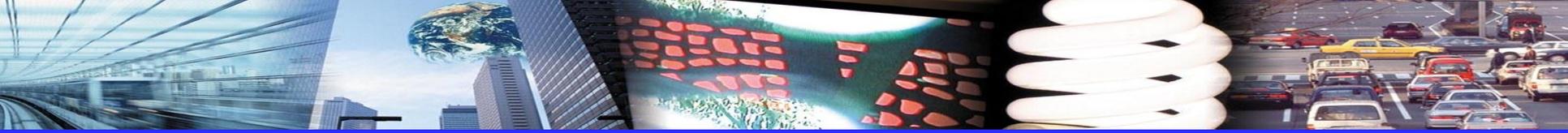
## *6<sup>th</sup> Edition Topical Work in Progress*

- 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 6<sup>th</sup> Edition
- March 2015 – Preparations for Outlook 6<sup>th</sup> Edition publication completed, including web site design and publicity plan
- April 2015 – Outlook 6<sup>th</sup> Edition published



**Thank you for your  
kind attention**

<http://aperc.ieej.or.jp>