



Outlook 6th Edition: Status & Decisions Still to be Made

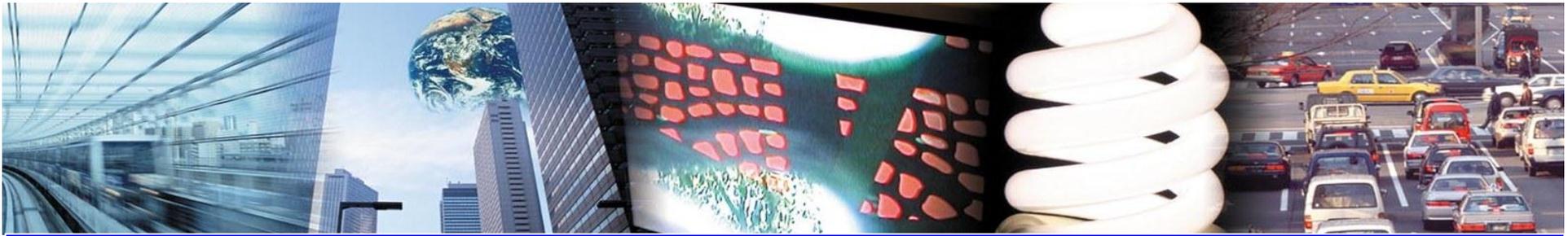
Brant Liddle

APERC Annual Conference

27 March 2014



Asia-Pacific
Economic Cooperation



The APEC Energy Outlook



APEC

**Energy Demand and
Supply Outlook
5th Edition**

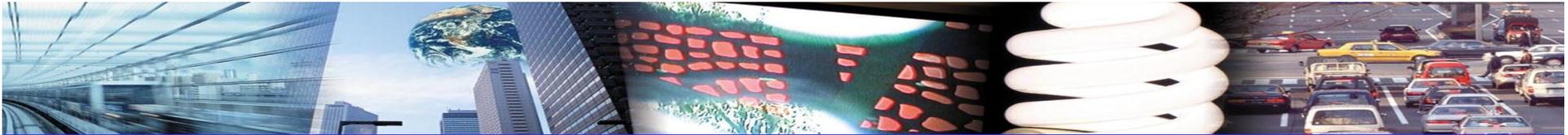
February 2013



APERC
Asia Pacific Energy Research Centre

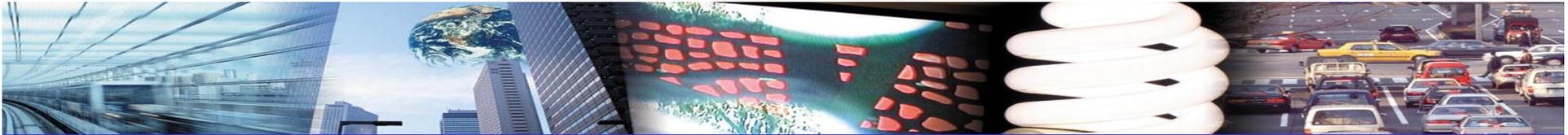
“ Alternative cases:

- . High Gas
- . Virtual Clean Car
- . Alternative Urban Development



Outlook Model Enhancements Finished

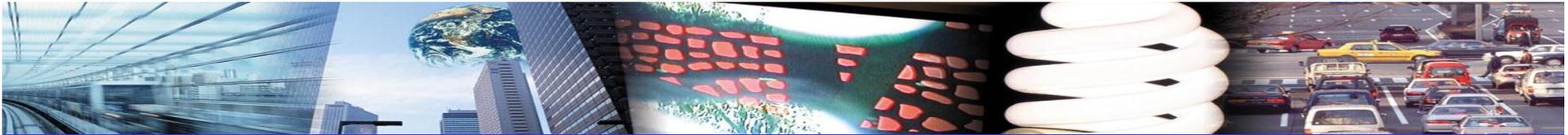
- “ New Macroeconomic Model based on the work of CEPII (French national economic research institute)



Outlook Work in Progress

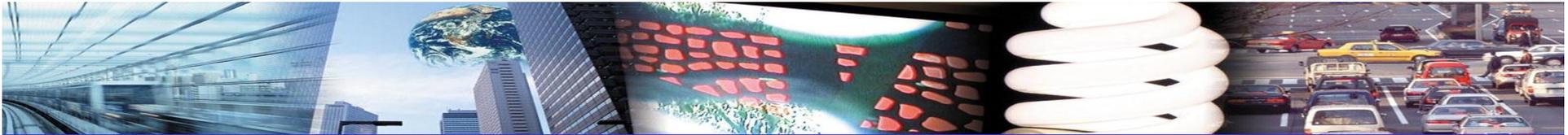
- “ Model Enhancements
 - “ Upgraded Transportation Fleet Model (stock & flow)
 - “ Projecting Light Vehicle Saturation in Developing Economies
 - “ Upgraded Electricity Supply Model (optimization)

- “ Topical Work
 - “ Barriers to Shale Gas Development
 - “ Barriers to Geothermal Electricity Development
 - “ Benefits of Electricity Interconnection in Northeast Asia



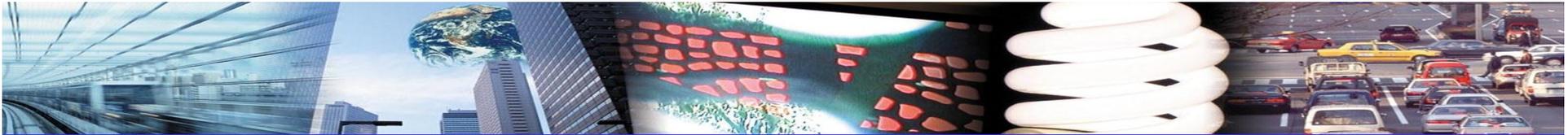
Potential Outlook Model Enhancements

- “ Bottom-up Residential Model
- “ New Industrial Demand Models
- “ Optimization-based Energy Supply Models (like current electricity model)



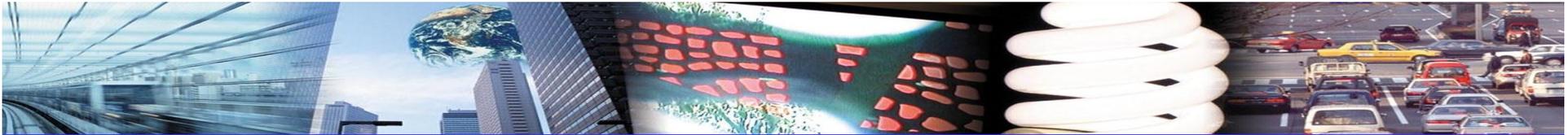
6th Edition Potential Alternative Cases

- “ High Shale Gas/Natural Gas
- “ Geothermal Electricity Development
- “ Electricity/Gas Interconnection in Northeast Asia
- “ Alternative Urban Development & Long-Run Light Vehicle Saturation
- “ Nuclear



Motivation for Alternative Cases

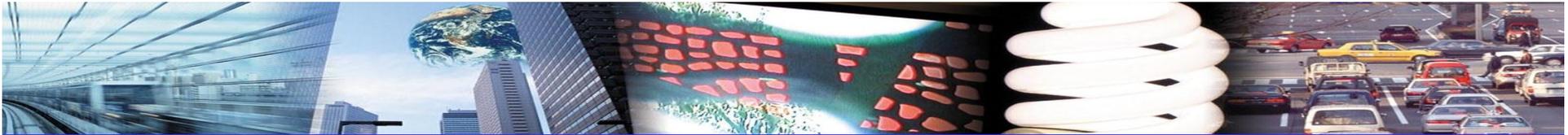
- “ Shift away from coal/oil
 - . Lower CO₂ emissions
- “ Energy security
 - . Lower imports from outside of APEC



Motivation for Alternative Cases

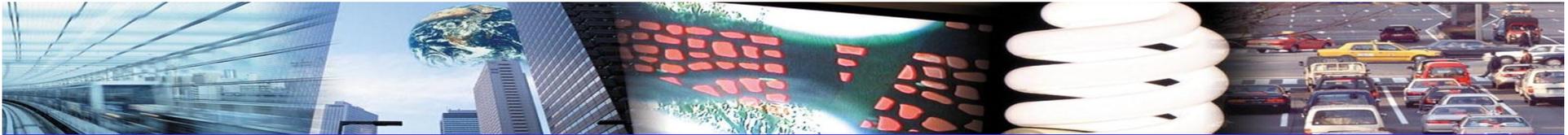
- “ Analyze impact of specific policies
 - . Carbon tax/price
 - . Energy/fuel efficiency standard

- “ Analyze effort need to reach particular targets
 - . Energy intensity
 - . Renewable energy



Preliminary Schedule for Outlook 6th Edition

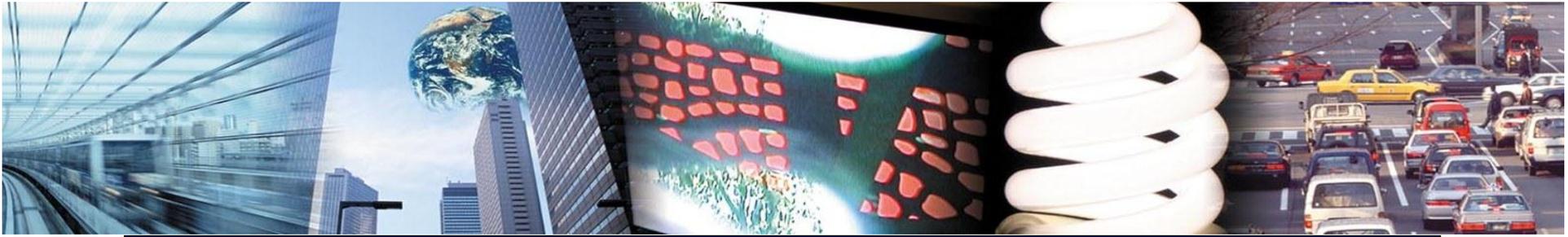
- “ Mid-year 2014 – Initial model results for BAU scenario created for all economies & Alternative scenarios designed and agreed-upon
- “ Fall 2014 – Model results for BAU case finalized for all economies & Initial drafts of economy reviews (Volume 2) completed for all economies except for alternative case discussions
- “ Late 2014 – Models results for alternative cases finalized for all economies & Alternative case discussions added to economy reviews



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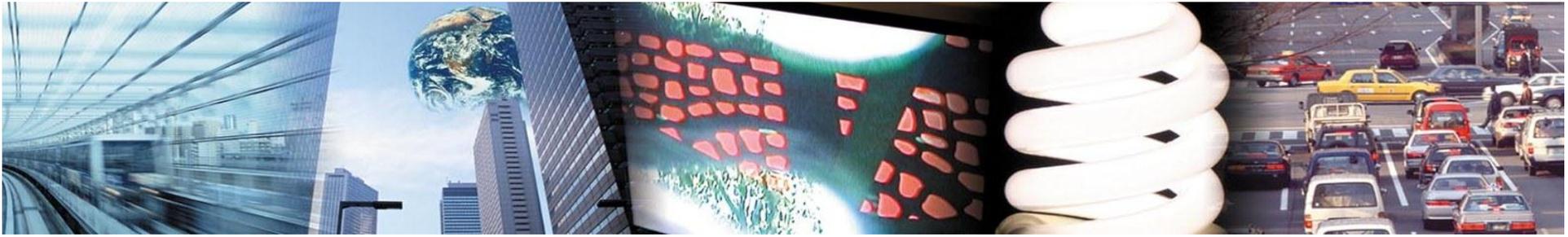
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- “ April 2015 – 6th Edition draft sent to editor
- “ August 2015 - External reviews begin
- “ October-November 2015– Outlook 6th Edition published



Closing Thoughts

- “ Several organizations publish international energy outlooks/projections (IEA, EIA, IEEJ, BP)
- “ APERC researchers have varied backgrounds & interests
 - . Important that our researchers have an opportunity to follow-up on their interests & focus on areas of expertise
- “ However, our modeling team is relatively small
- “ So model detail/enhancements & alternative cases/original topics are constrained & driven by researcher interests & expertise



Your Thoughts & Suggestions