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Overview and Updates on the 7th APEC Energy Outlook

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APEC intensity and renewable doubling goals

[We] [a]spire to reduce APEC's aggregate energy intensity by 45 percent by 2035.

--19th APEC Economic Leaders' Meeting, Honolulu, USA, 13 November 2011

We aspire to the goal of “doubling the share of renewables in the APEC energy mix, including in power generation, from 2010 levels by 2030.”

--11th APEC Energy Ministerial Meeting, Beijing, China, 2 September 2014

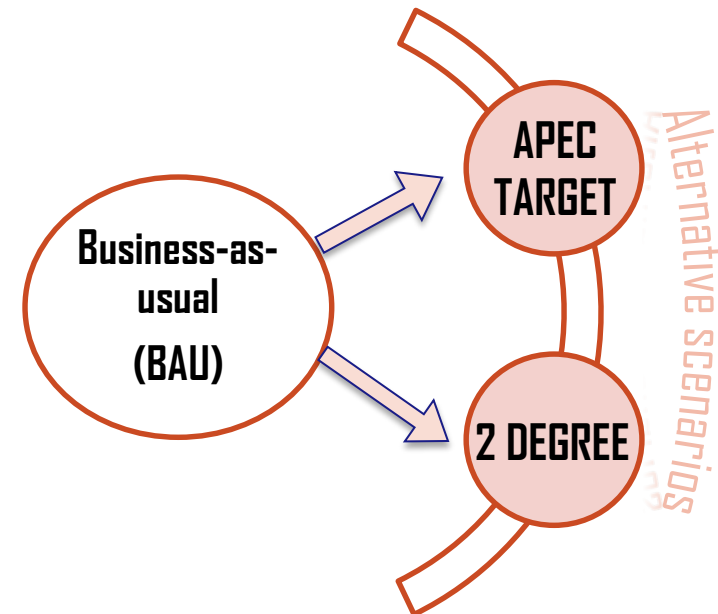
COP21 goal aims to limit global temperature rise

This Agreement...aims to strengthen the global response to the threat of climate change...by...[h]olding the increase in the global average temperature to well below 2°C above pre-industrial levels.

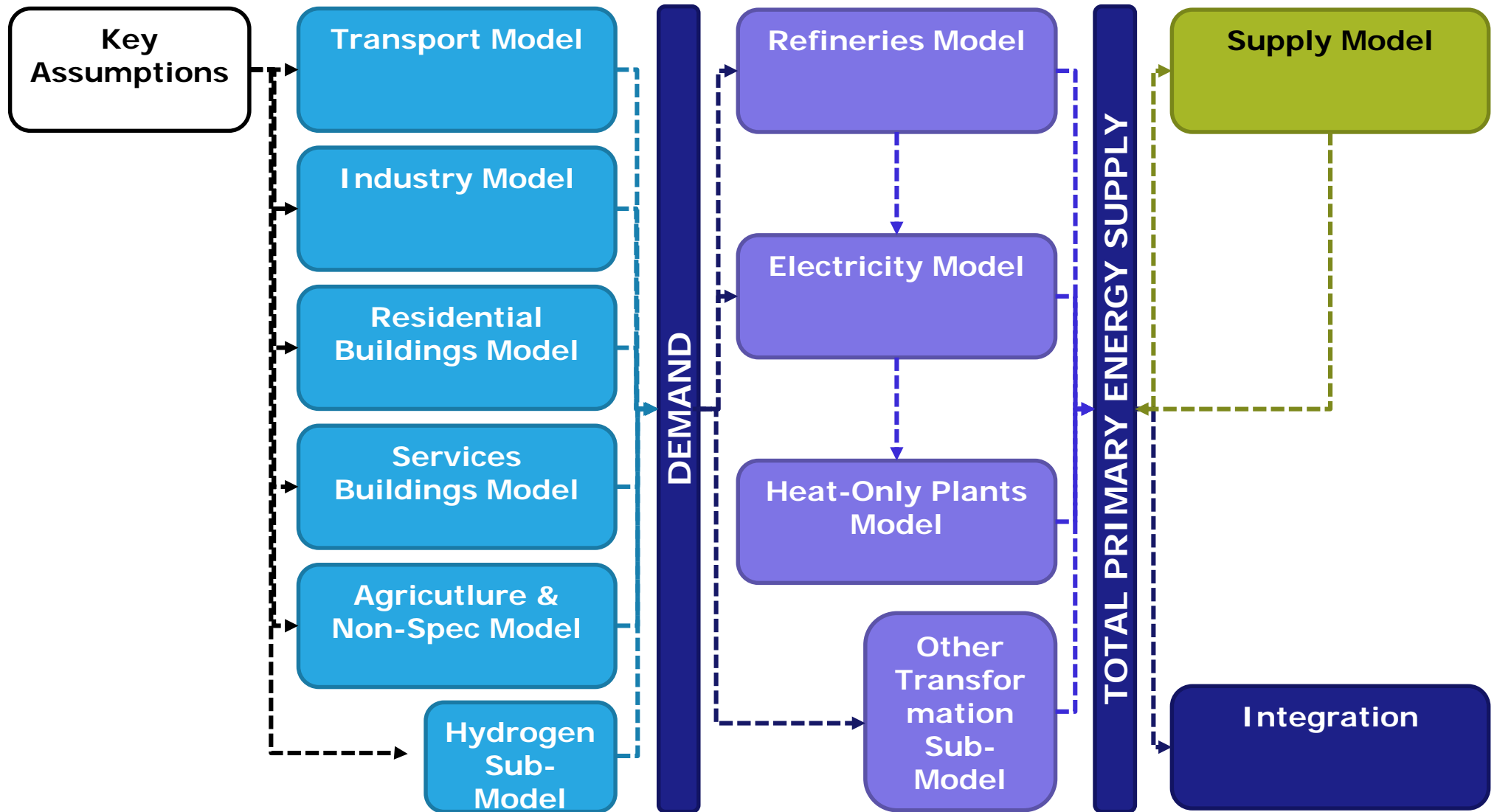
--Paris Agreement, 21st Conference of the Parties of the UNFCCC, 12 December 2015

7th edition extends to 2050, enhances supply

- Extends projection to 2050
- Uses OECD GDP forecasts
- Makes buildings models activity driven
- Distributes renewables to the demand and electricity models
- Adds refinery and supply models as well as an integrating module
- Extends investment calculations to include demand side investment and fuel savings



Modelling structure reflects changes



Integration module was a key change

Integration

CO₂ Emissions

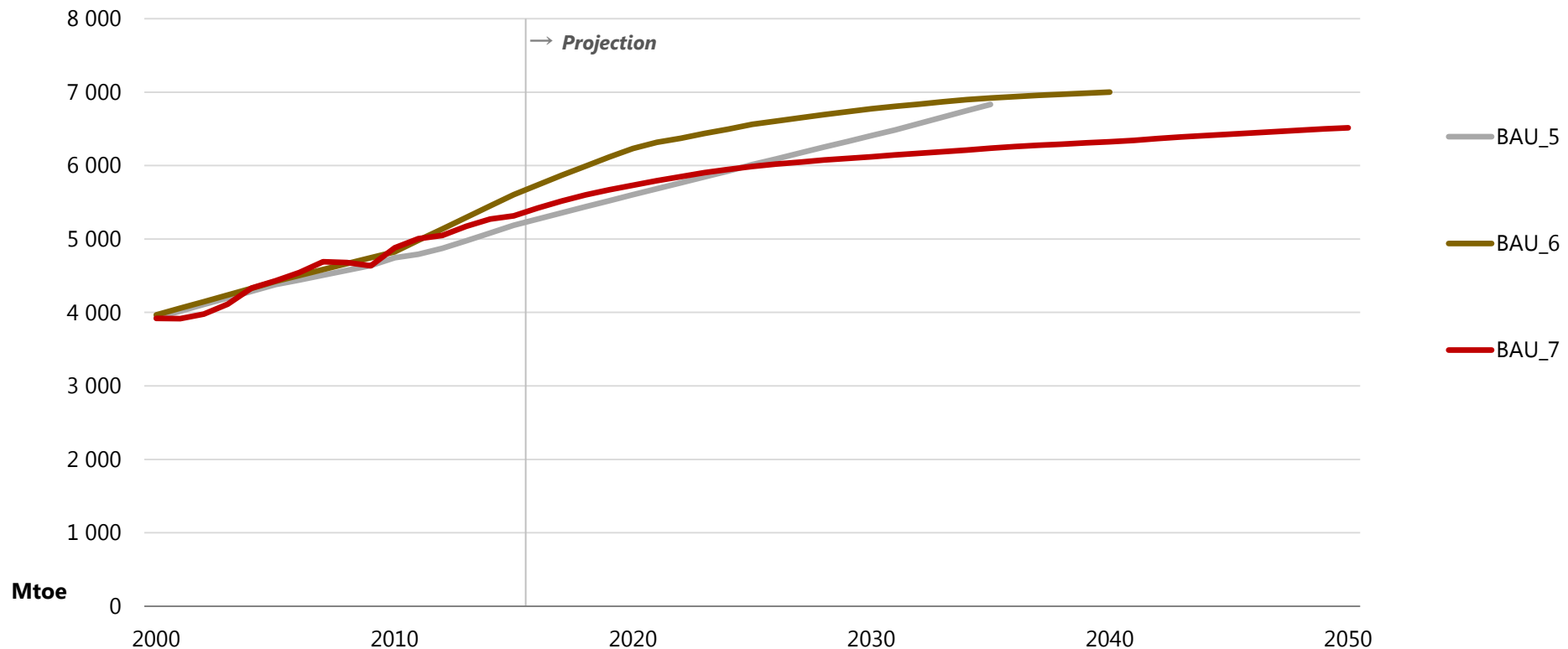
Investment Totals

Balances

Energy Savings

Results show similar trends to previous editions

Total final energy demand, 5th, 6th and 7th editions, 2000-2050



In the 7th edition total final energy demand in 2040 is about 675 Mtoe less than the 6th edition

Source: IEA statistics 2017 and APERC analysis.

Volume one outline is similar to the last edition

Executive Summary (7-8 pages)

01_Introduction (13-14 pages)

02_Outlook for Energy Demand (20-22 pages)

03_Outlook for Energy Supply (20-22 pages)

04_Outlook for Power (20-22 pages)

05_Achieving APEC Targets (22-24 pages)

06_Low Carbon Scenario (22-24 pages)

07_Energy Investments (18-20 pages)

08_Energy Security (10-12 pages)

09_Energy Trade (10-12 pages)

10_Climate Change Implementation: Policy (10-12 pages)

First chapter drafts have been completed

	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018	Q4 2018	2019
Economy review of assumptions	✓								
Model development	✓	✓	✓						
Demand model runs			✓						
Power & supply model runs				✓					
Economy reviews of model results				✓					
Model reruns to respond to comments					✓				
Outlines, drafting of chapters					✓	✓			
Economy & expert reviews of chapter drafts and updates in response to comments							✓	✓	
Editing, printing								✓	✓
Publication									April



Thank you for your kind attention

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