



The Outlook for Energy: A View to 2040

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December 11, 2012

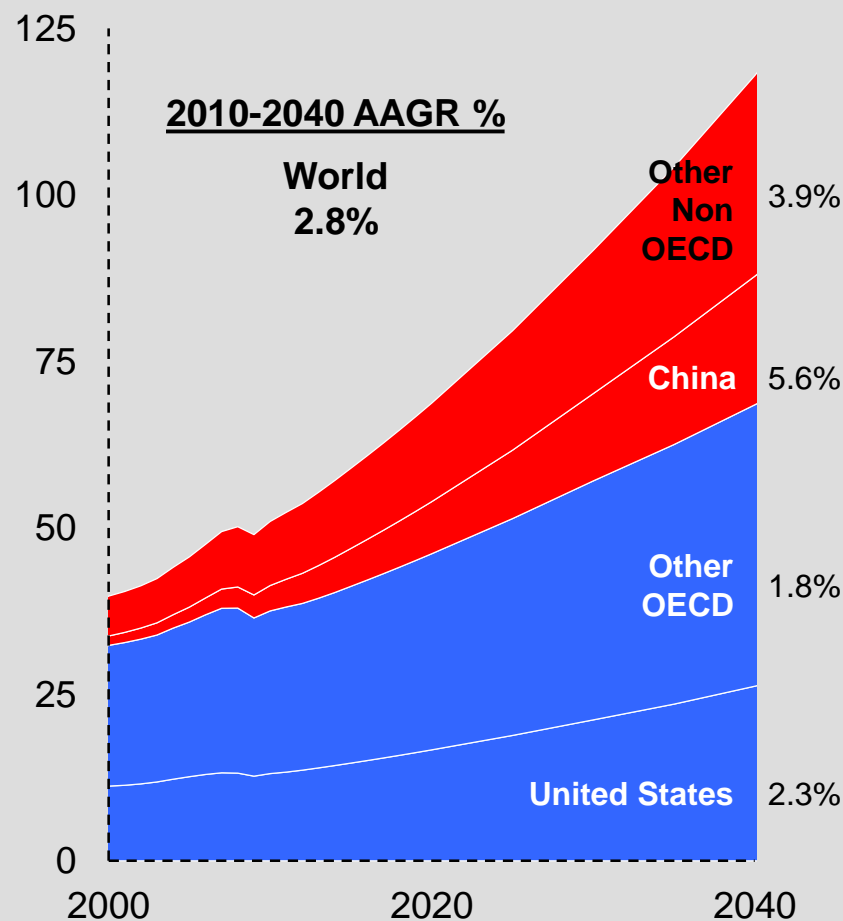
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Economic Growth Drives Energy Demand

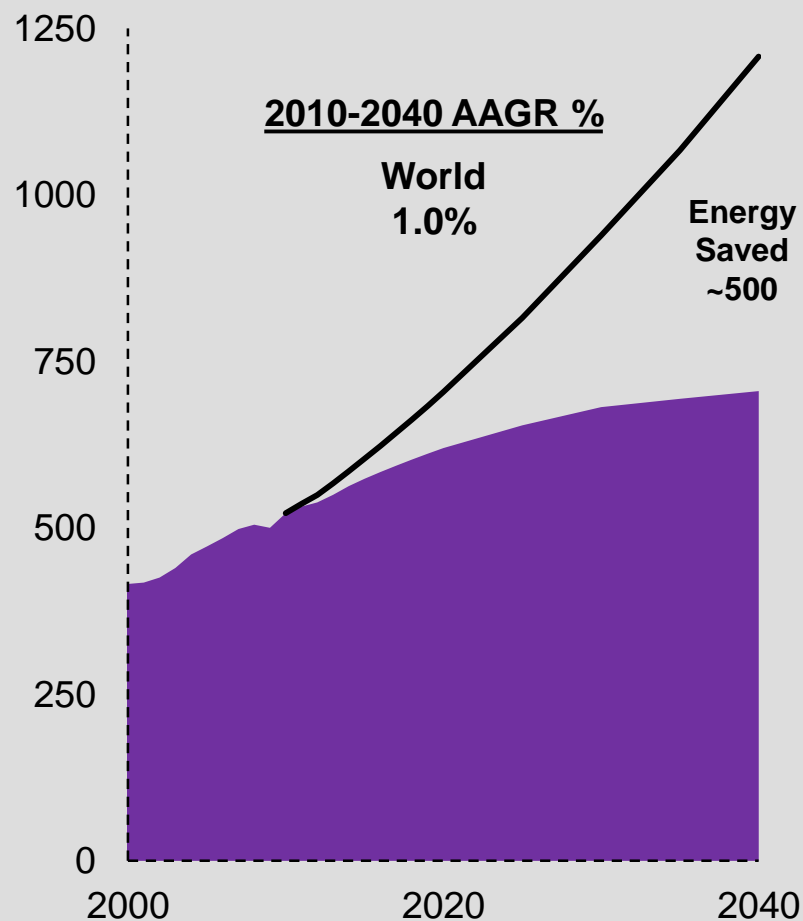
GDP

Trillion 2005\$



Energy Demand

Quadrillion BTUs

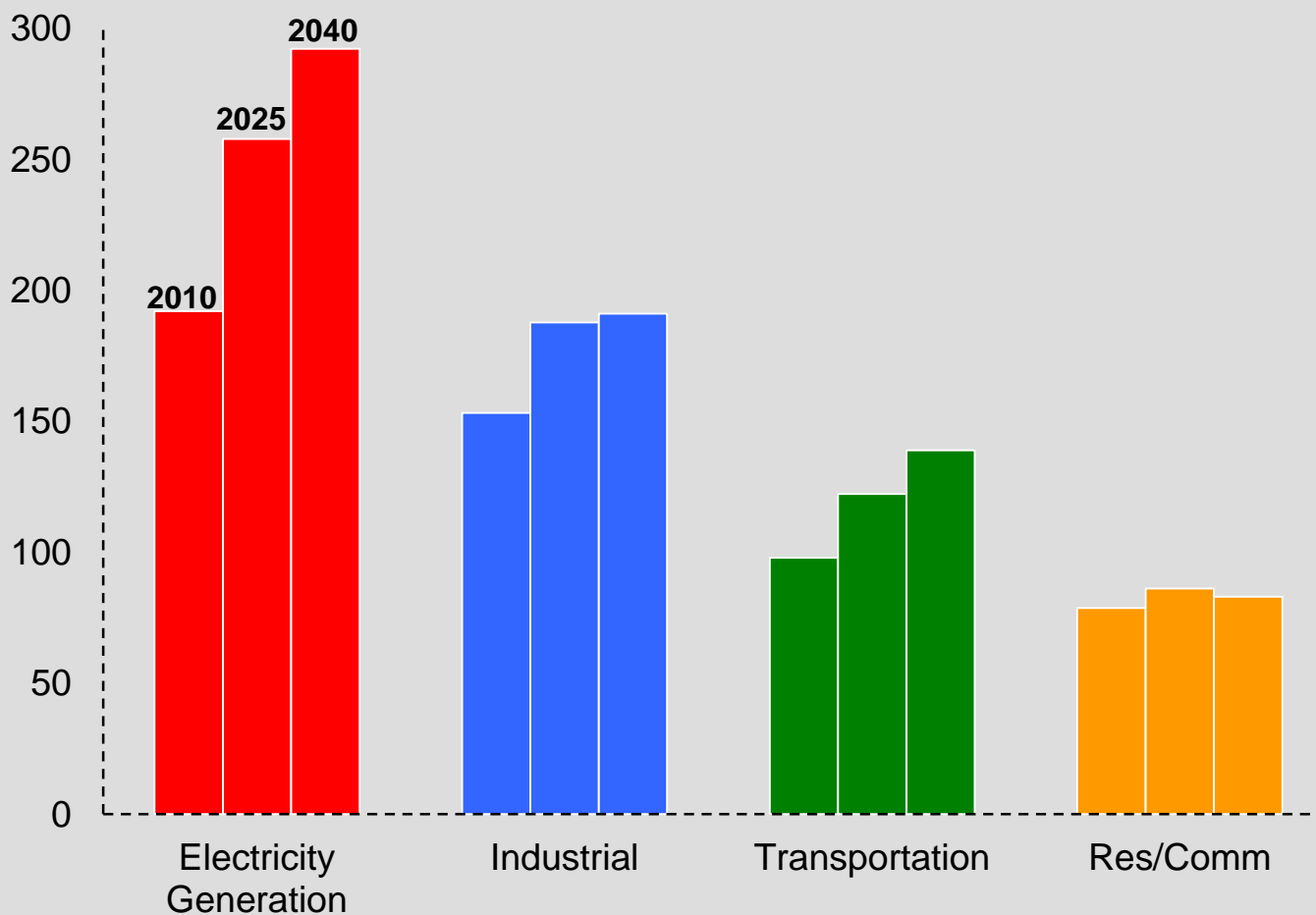


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Electricity Generation Leads Growth

Energy Demand by Sector

Quadrillion BTUs



Transportation

65%

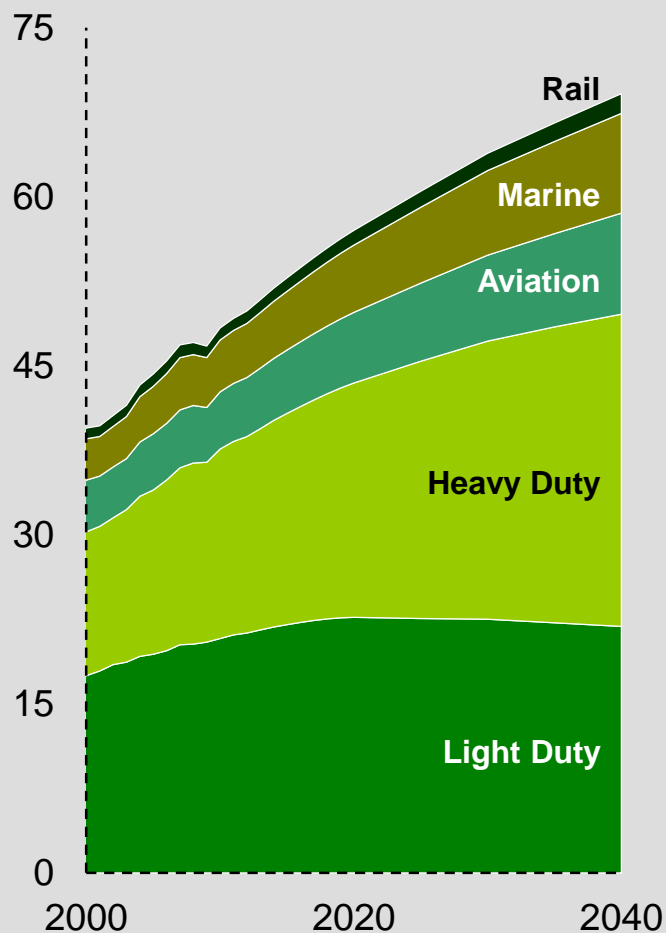
Heavy duty transportation demand grows 65 percent by 2040.



Transportation Demand

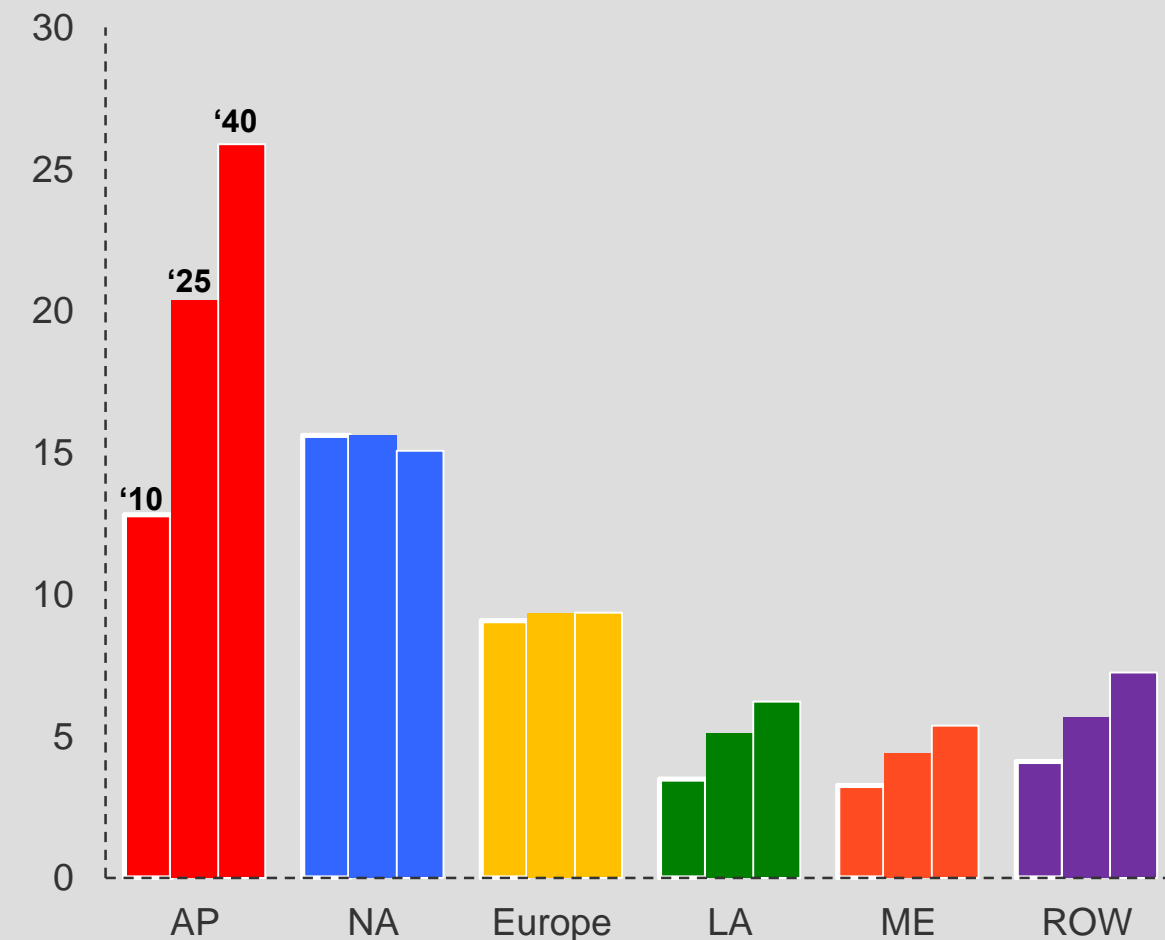
Sector Demand

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Demand by Region

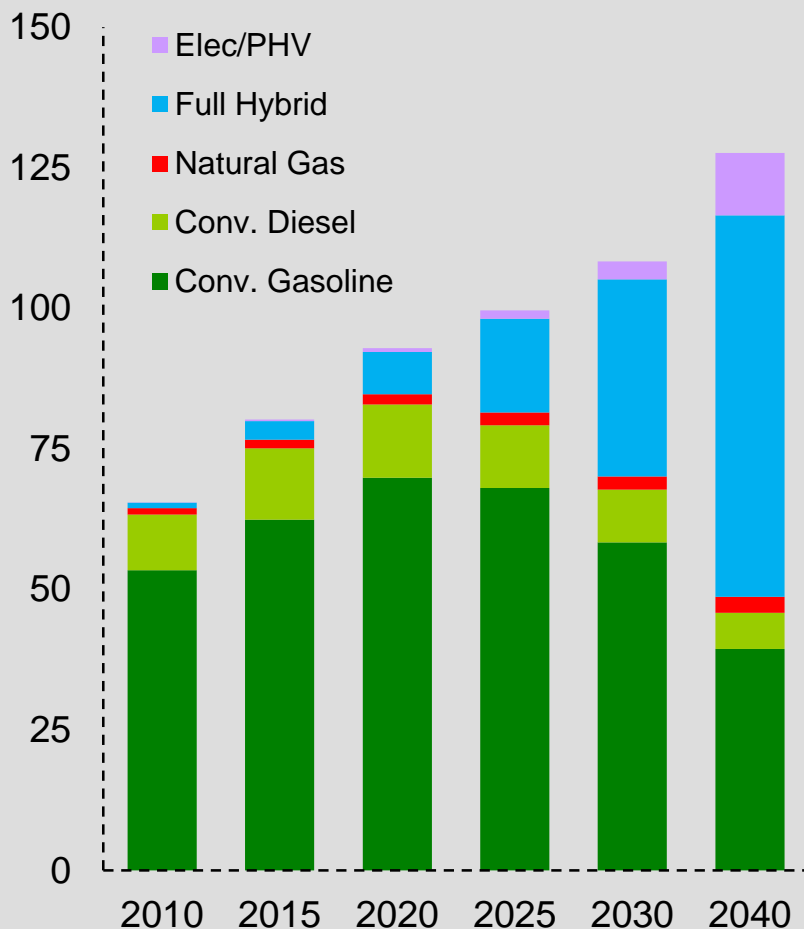
MBDOE



Light Duty Vehicle Sales & Efficiency

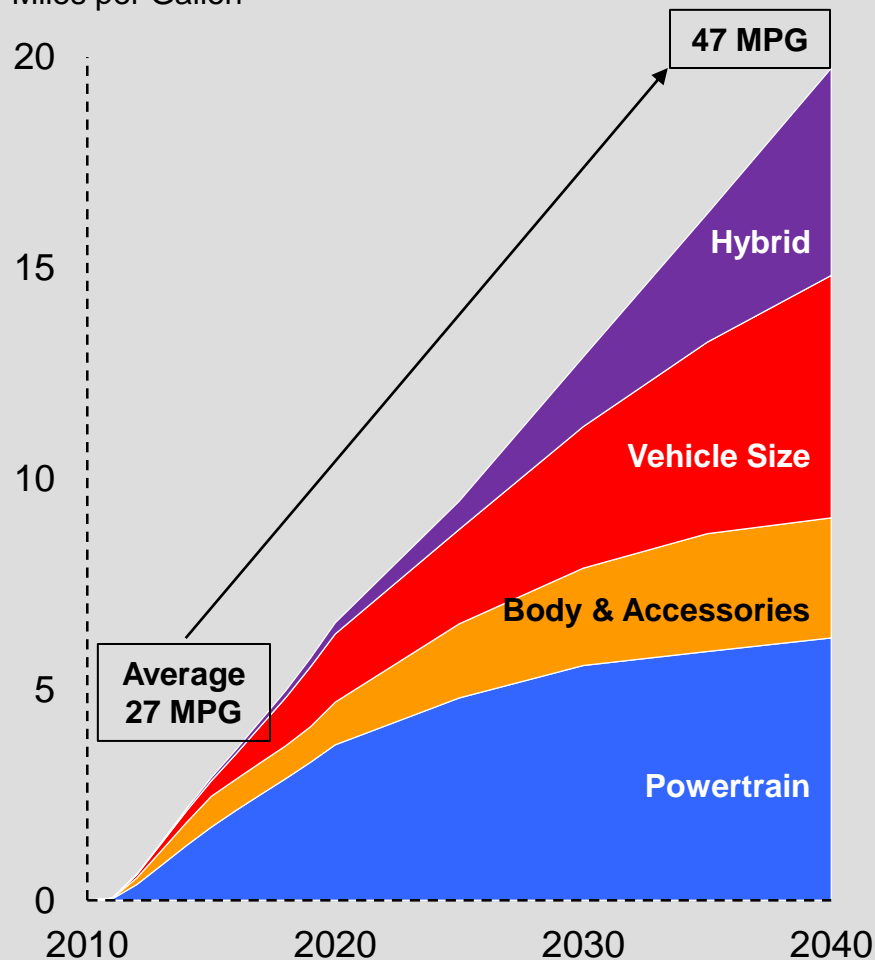
Annual New Car Sales by Type

Million Cars



Incremental Vehicle Efficiency Gains

Miles per Gallon

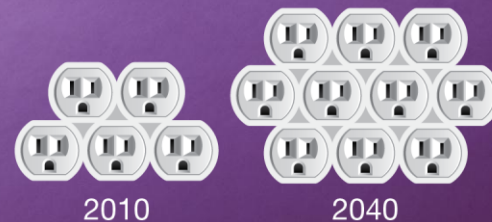




Electricity generation

85%

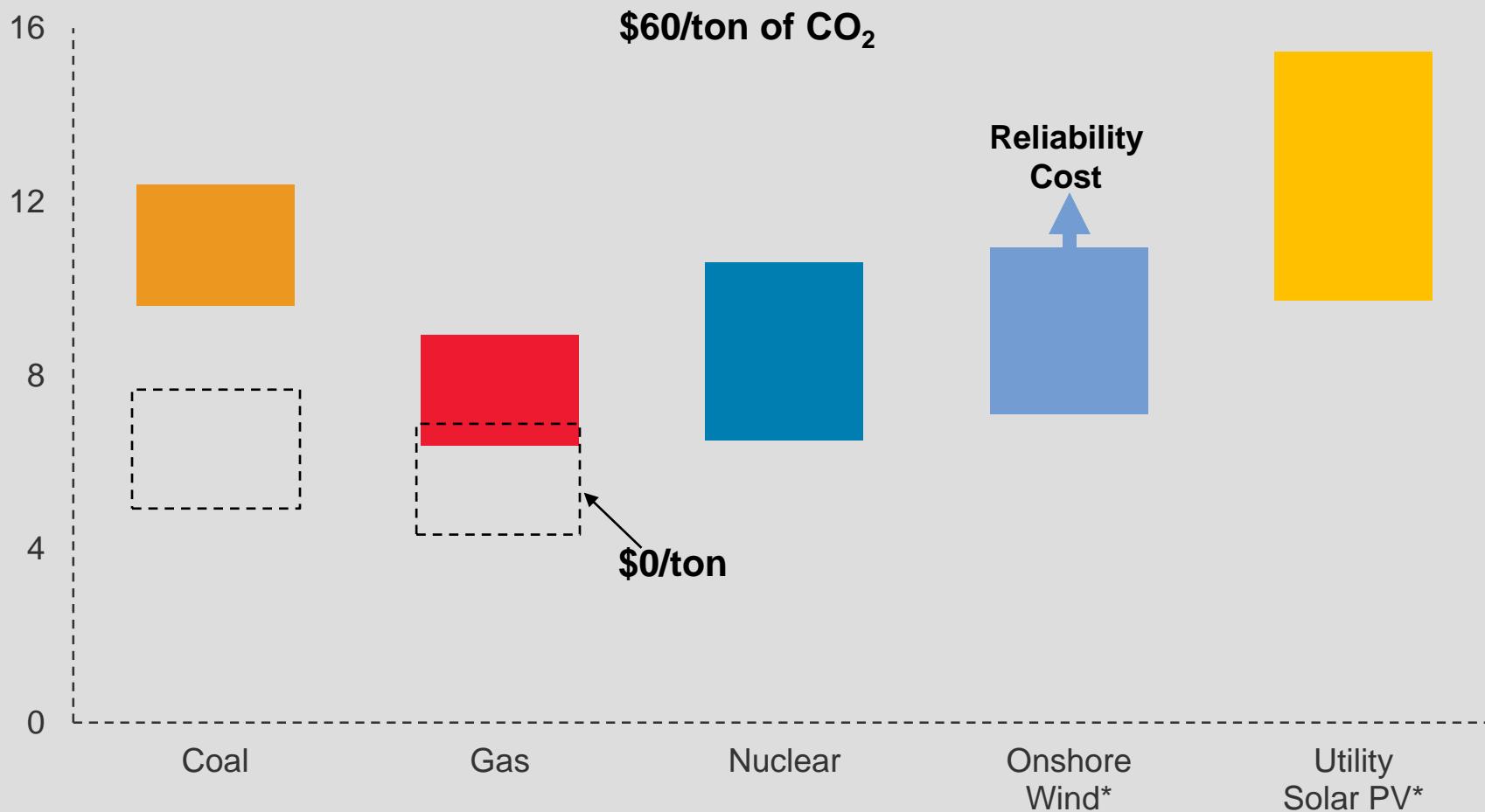
Global electricity demand will grow by 85 percent over the *Outlook* period.



Economic Choices for U.S. Electricity

Baseload, Startup 2030

2012 cents/kWh



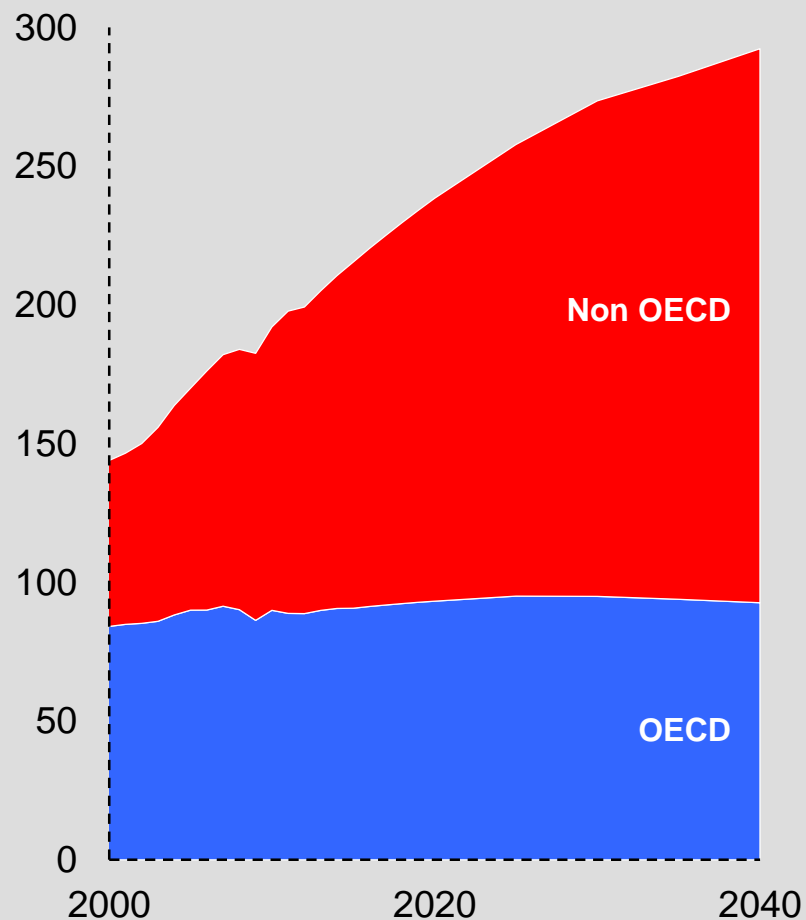
*Wind and solar exclude costs for integration, backup capacity and additional transmission

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Fueling Electricity Generation Varies by Region

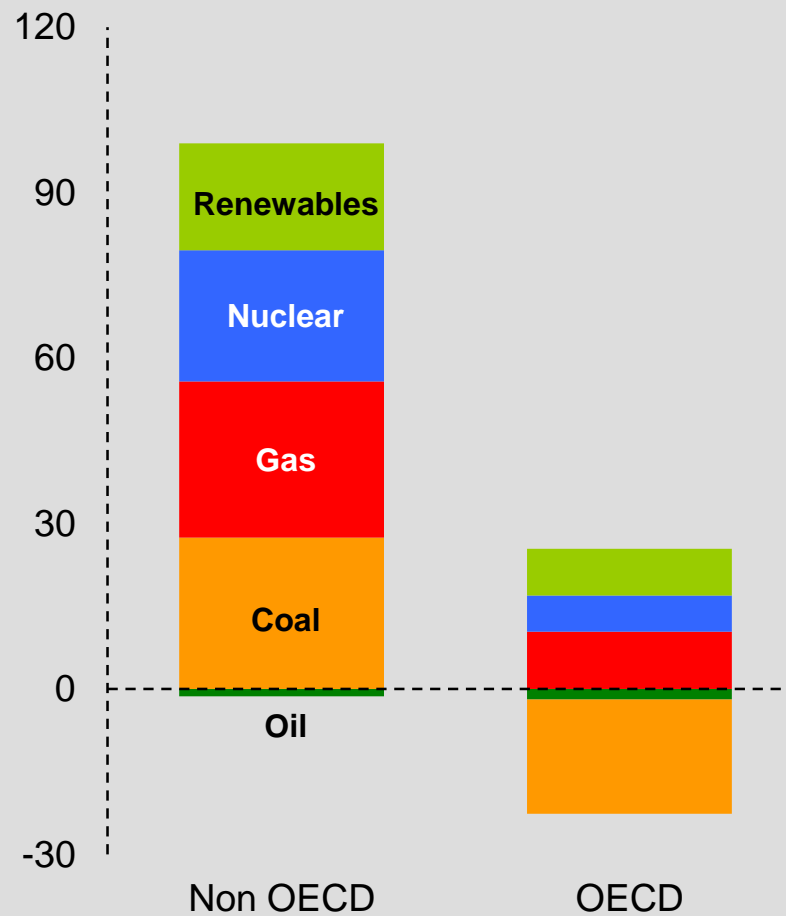
Electricity Generation

Quadrillion BTUs



Growth in Fuels from 2010 to 2040

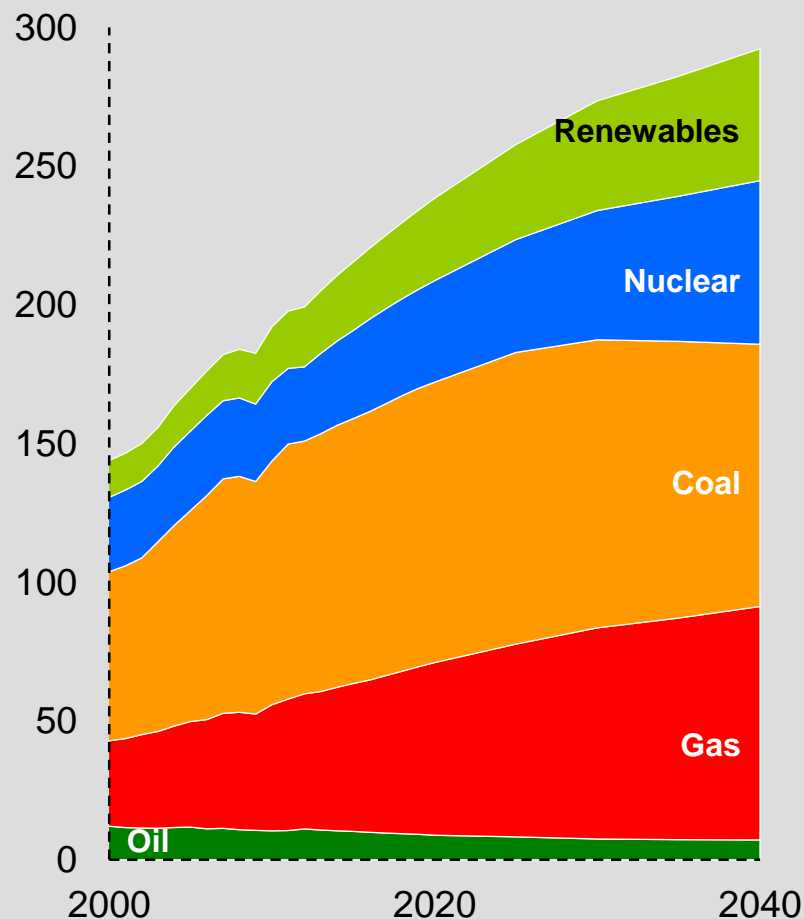
Quadrillion BTUs



Fueling Electricity Generation Varies by Region

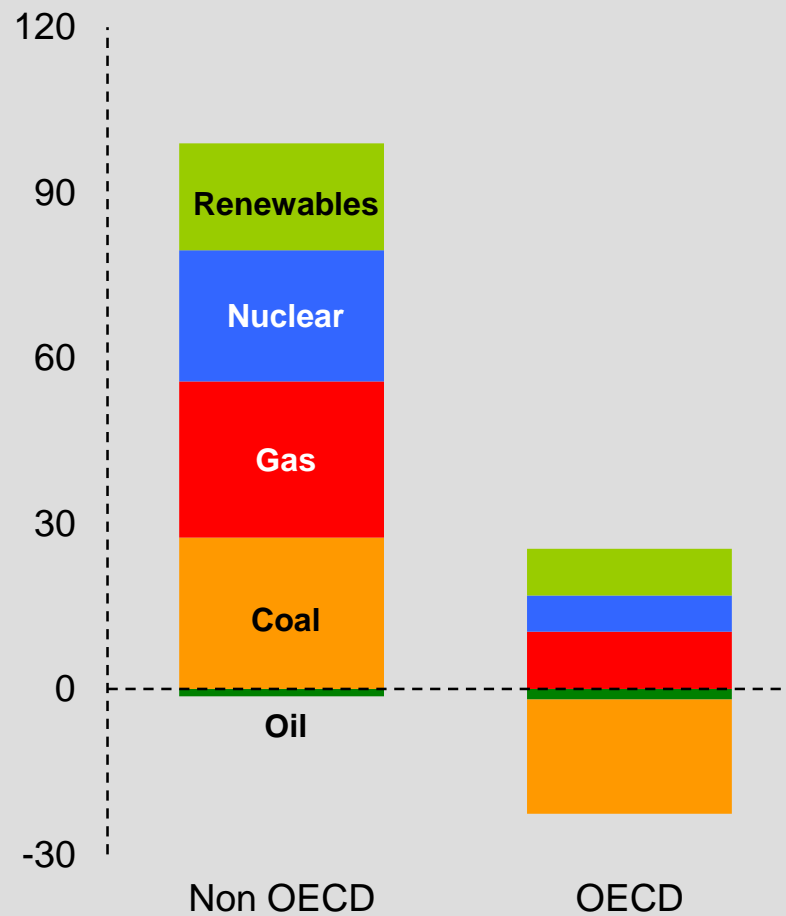
Electricity Generation

Quadrillion BTUs

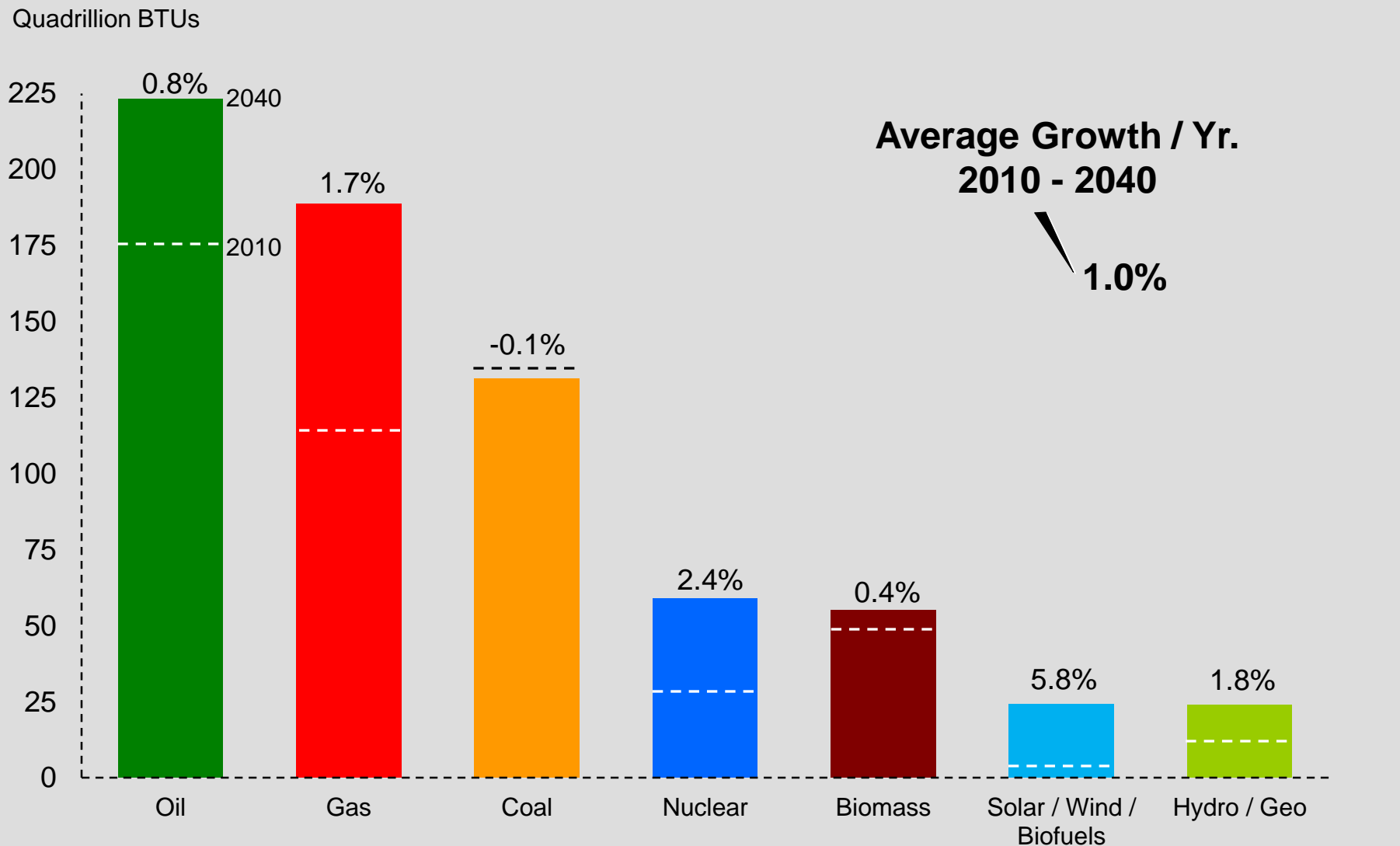


Growth in Fuels from 2010 to 2040

Quadrillion BTUs



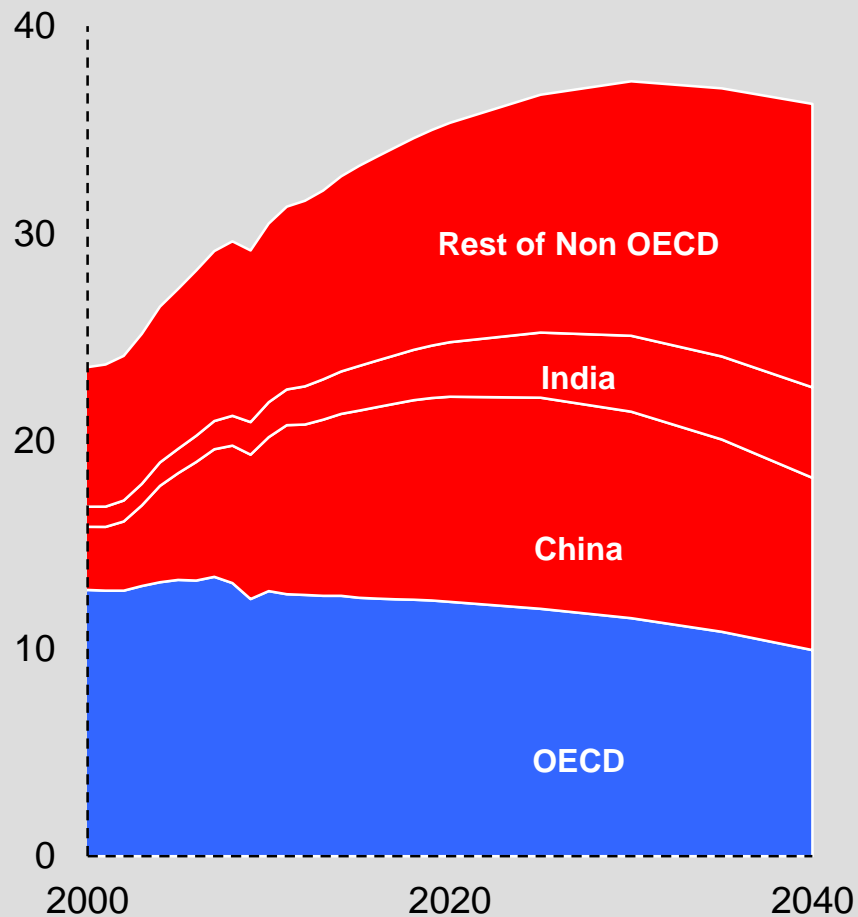
Energy Mix Continues to Evolve



CO₂ Emissions Plateau

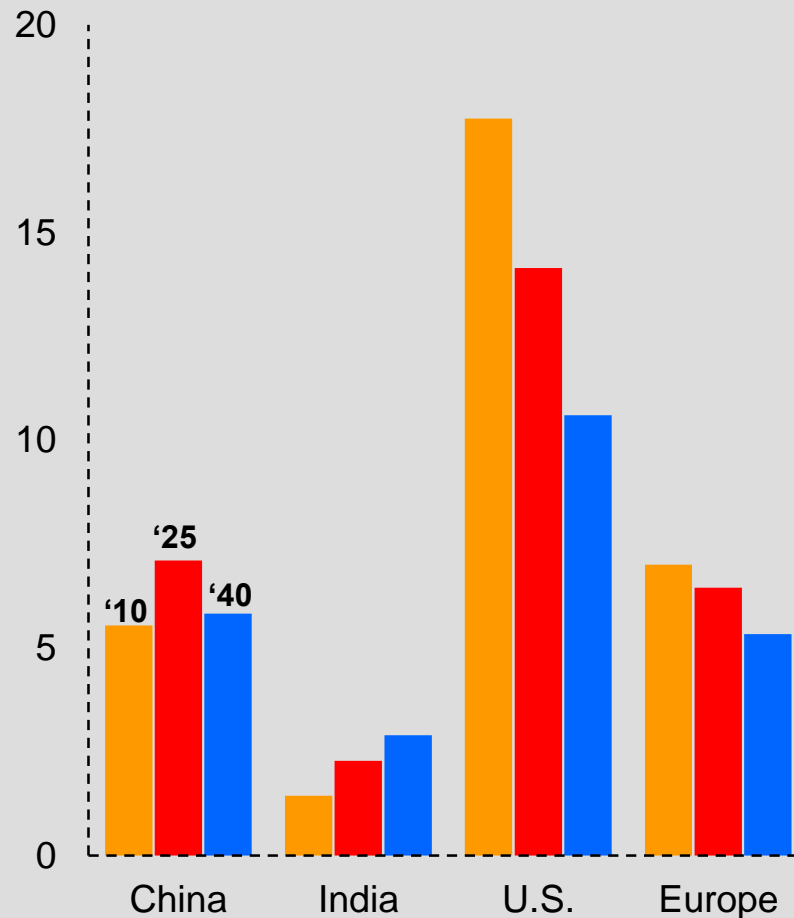
By Region

Billion Tons



Emissions Per Capita

Tons per Person



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Supply



60%

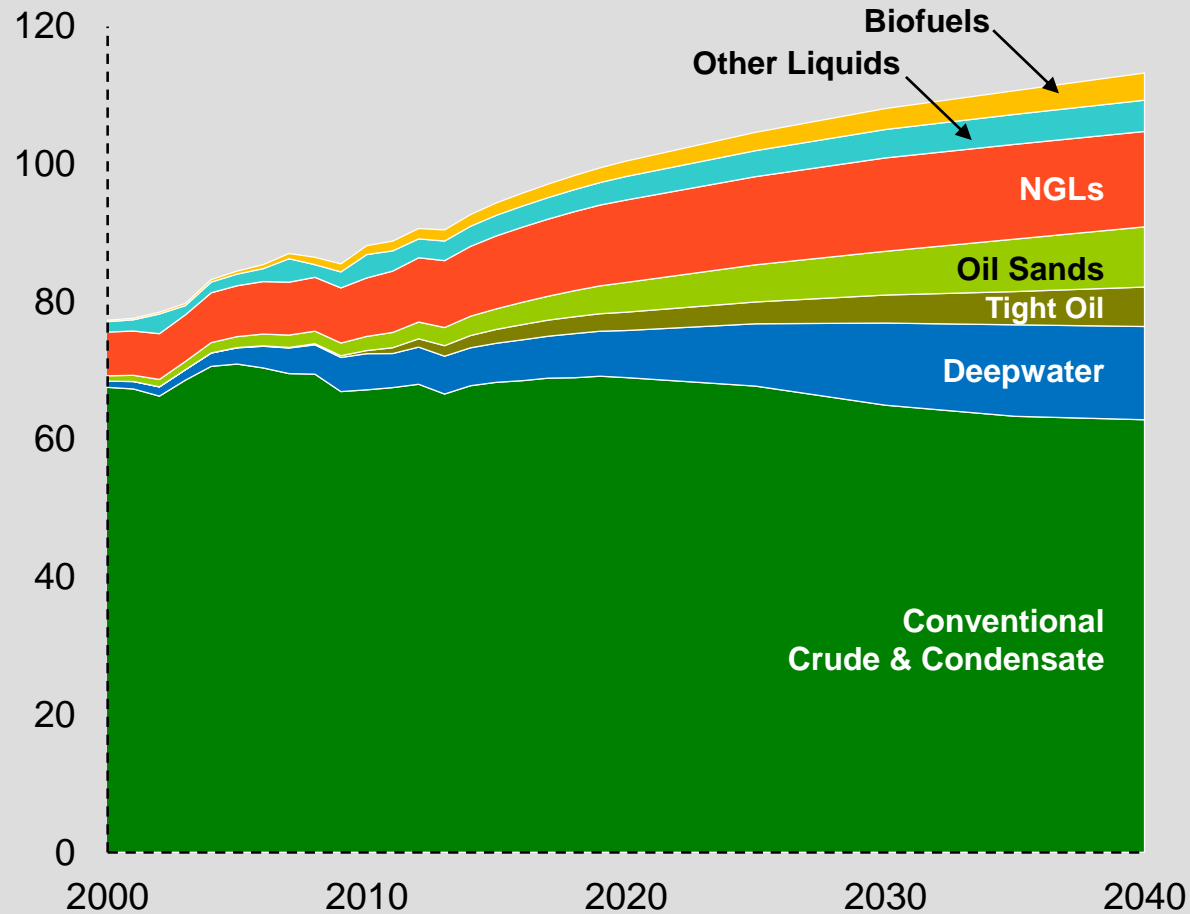
Oil and gas will supply about 60 percent of global energy demand in 2040, up from 55 percent in 2010.



Liquids Supply

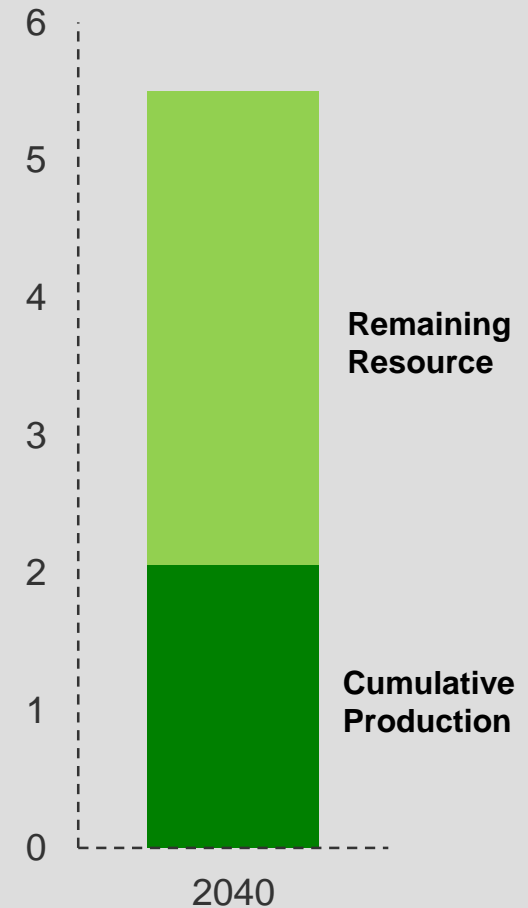
Supply by Type

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Resource*

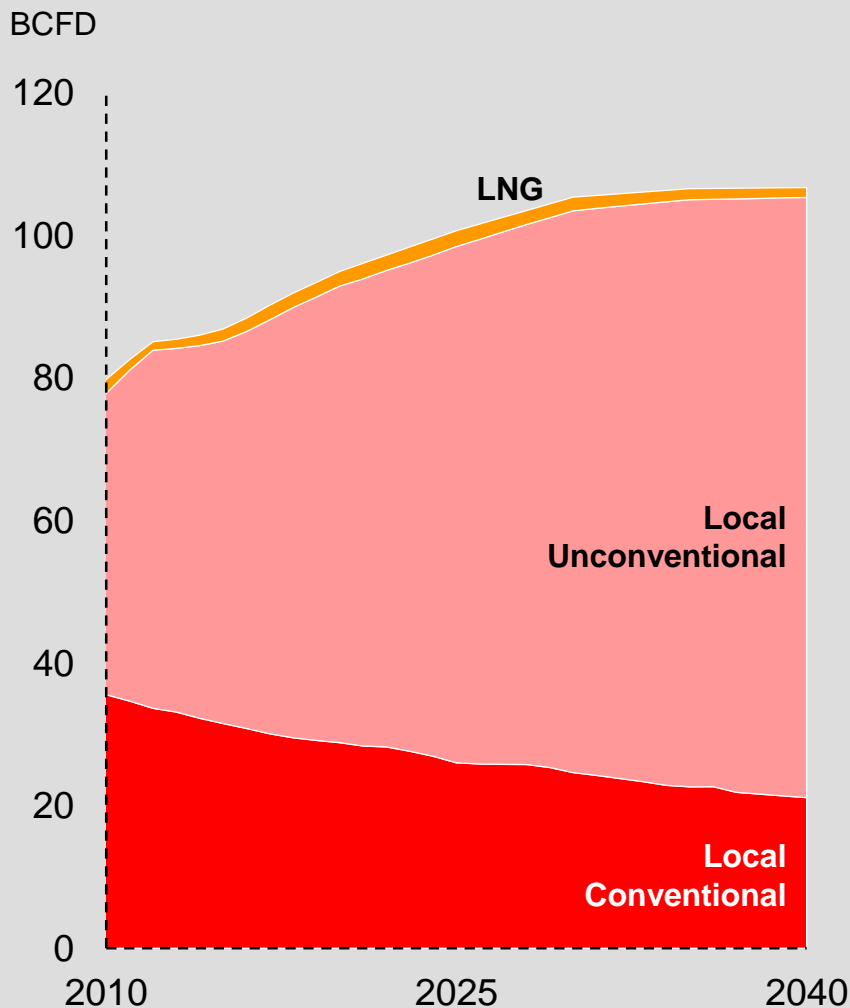
TBO



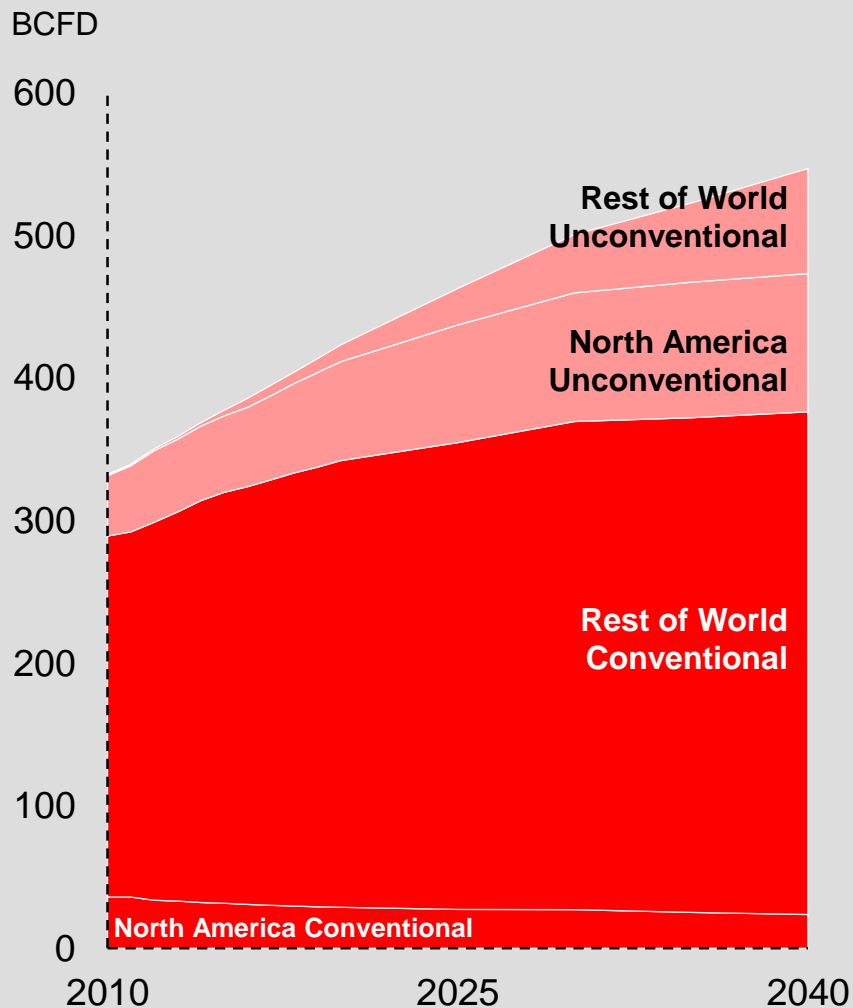
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Natural Gas Supply and Demand Shifts

North America Gas Supply



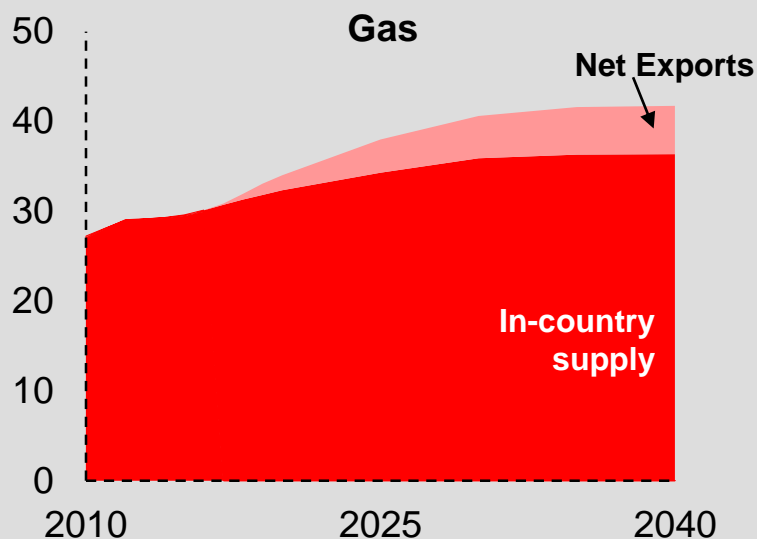
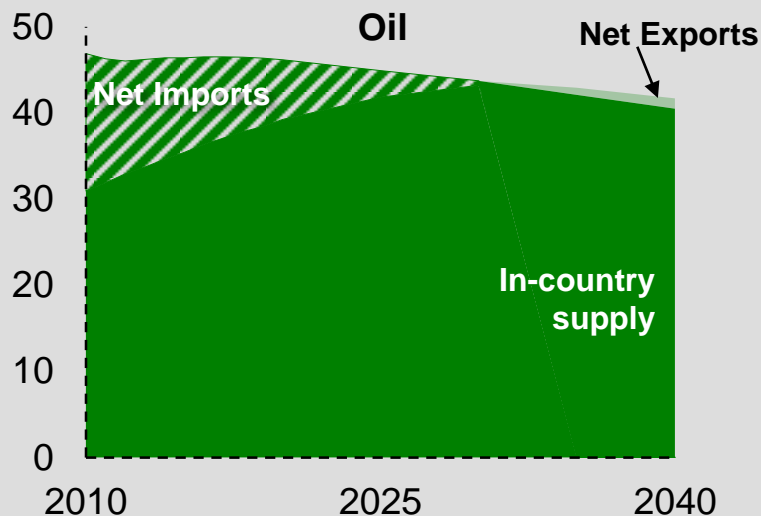
Global Gas Supply



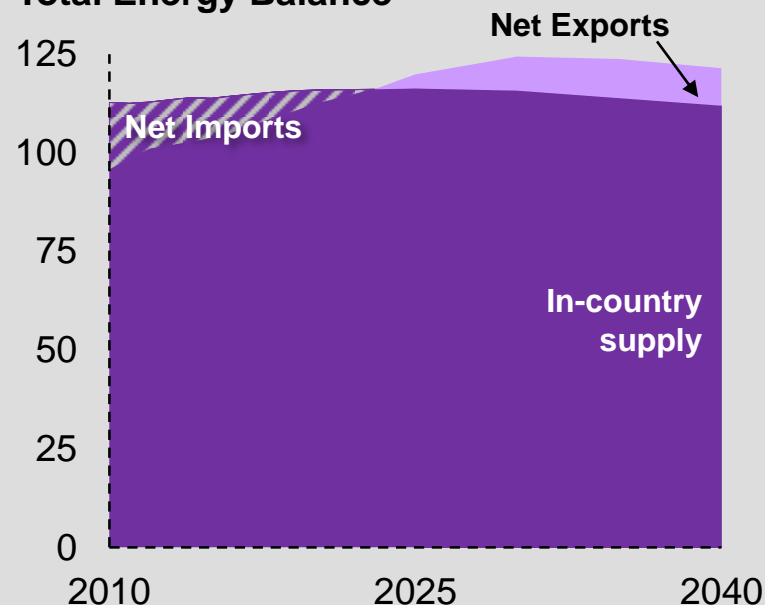
North America Energy Balance



Quadrillion BTUs

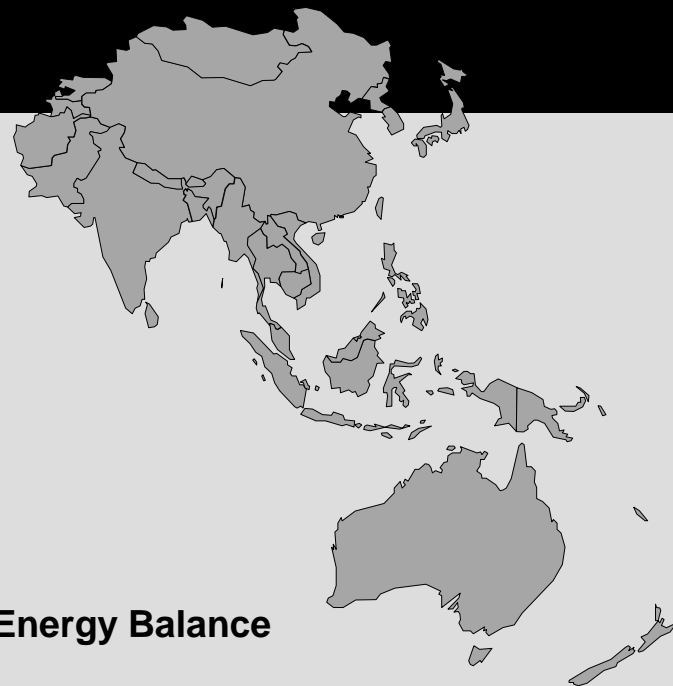


Total Energy Balance

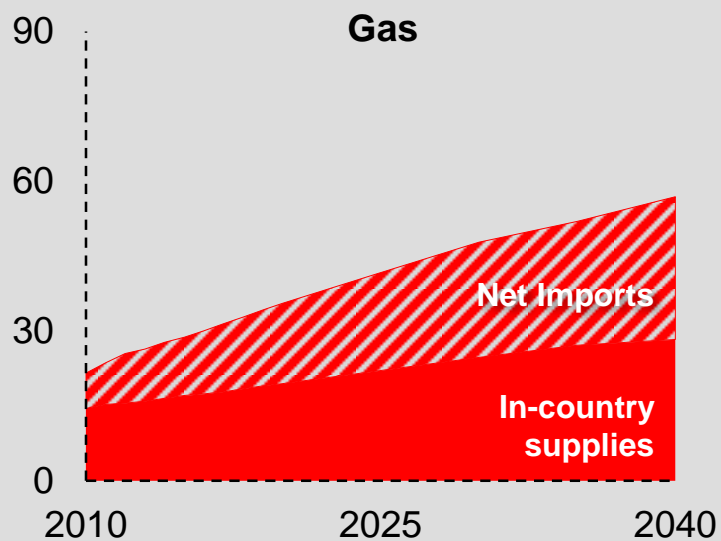
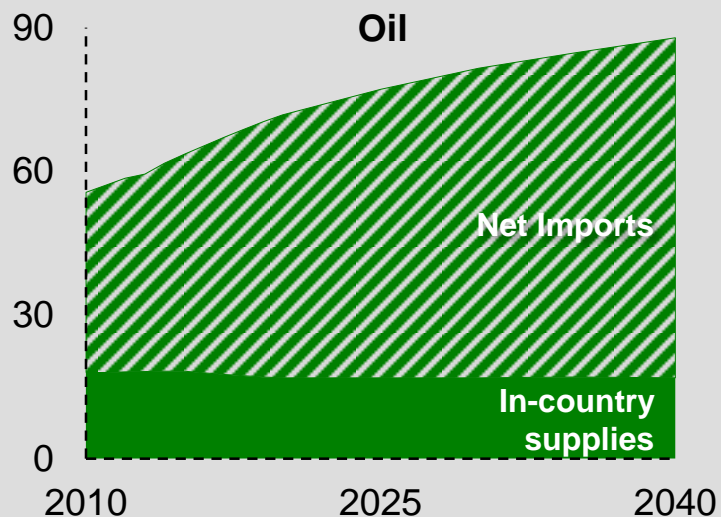


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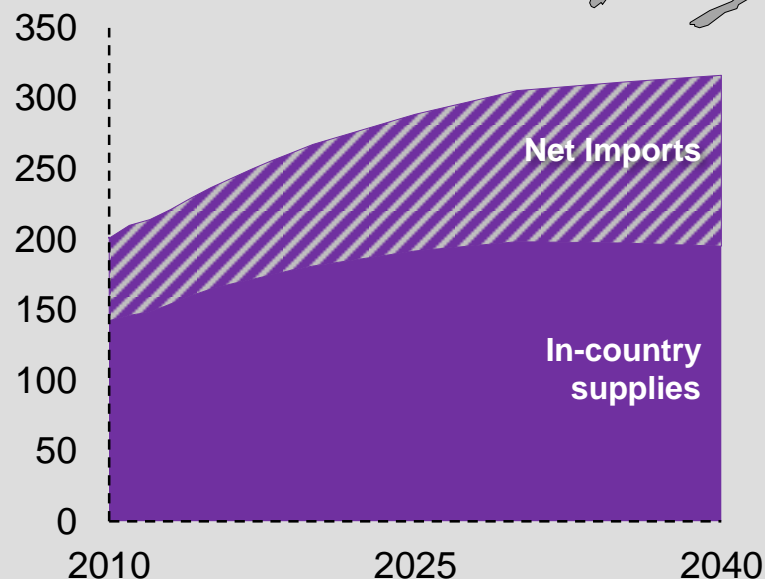
Asia Pacific Energy Balance



Quadrillion BTUs



Total Energy Balance

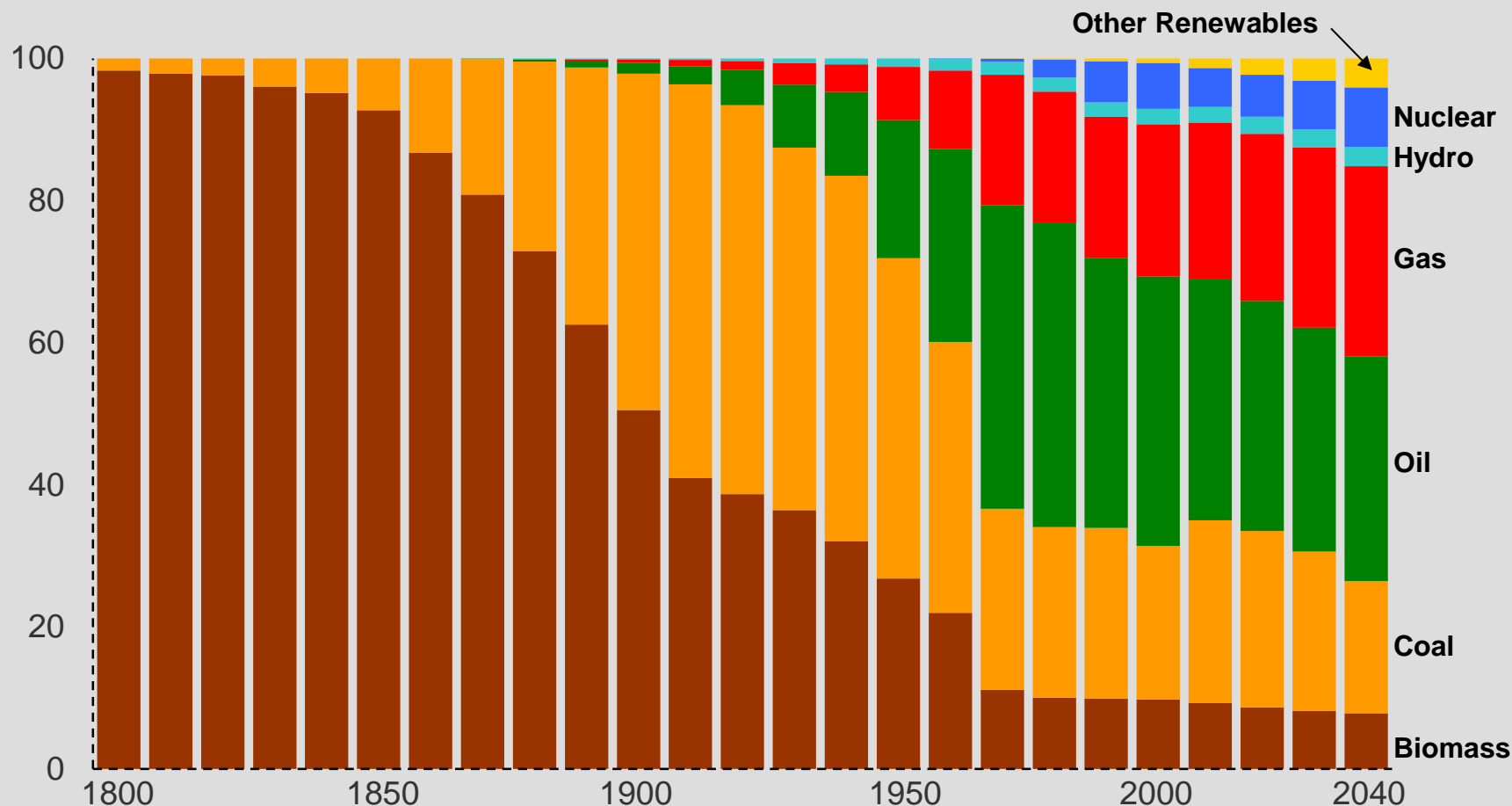


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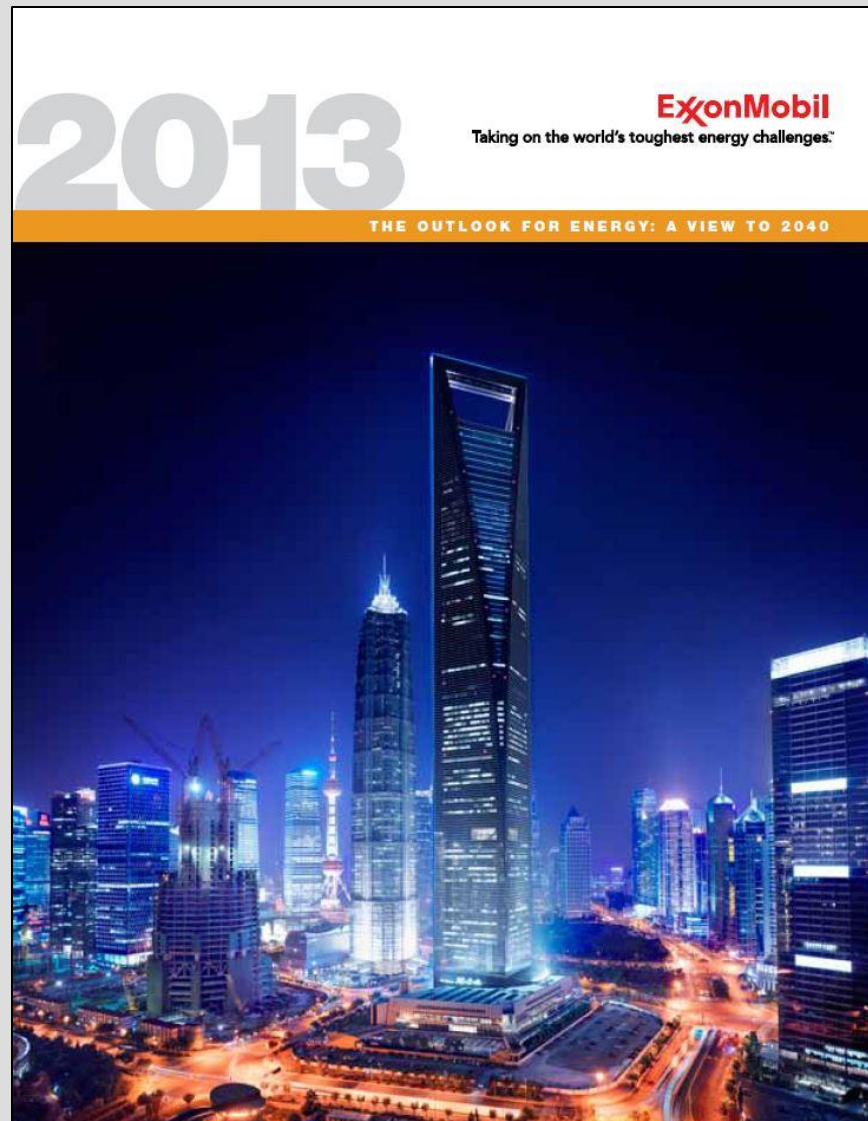
Energy Use Evolves Over Time

Global Percent Mix of Fuels

Percent



Conclusions



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