The Outlook for Energy: A View to 2040

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Corporate Strategic Planning

Joint Committee on Energy
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This presentation includes forward-looking statements. Actual future conditions (including economic conditions, energy demand, and energy supply) could differ materially due to changes in technology, the development of new supply sources, political events, demographic changes, and other factors discussed herein and under the heading "Factors Affecting Future Results" in the Investors section of our website at: www.exxonmobil.com. The information provided includes ExxonMobil's internal estimates and forecasts based upon internal data and analyses as well as publically-available information from external sources including the International Energy Agency. This material is not to be used or reproduced without the permission of Exxon Mobil Corporation. All rights reserved.

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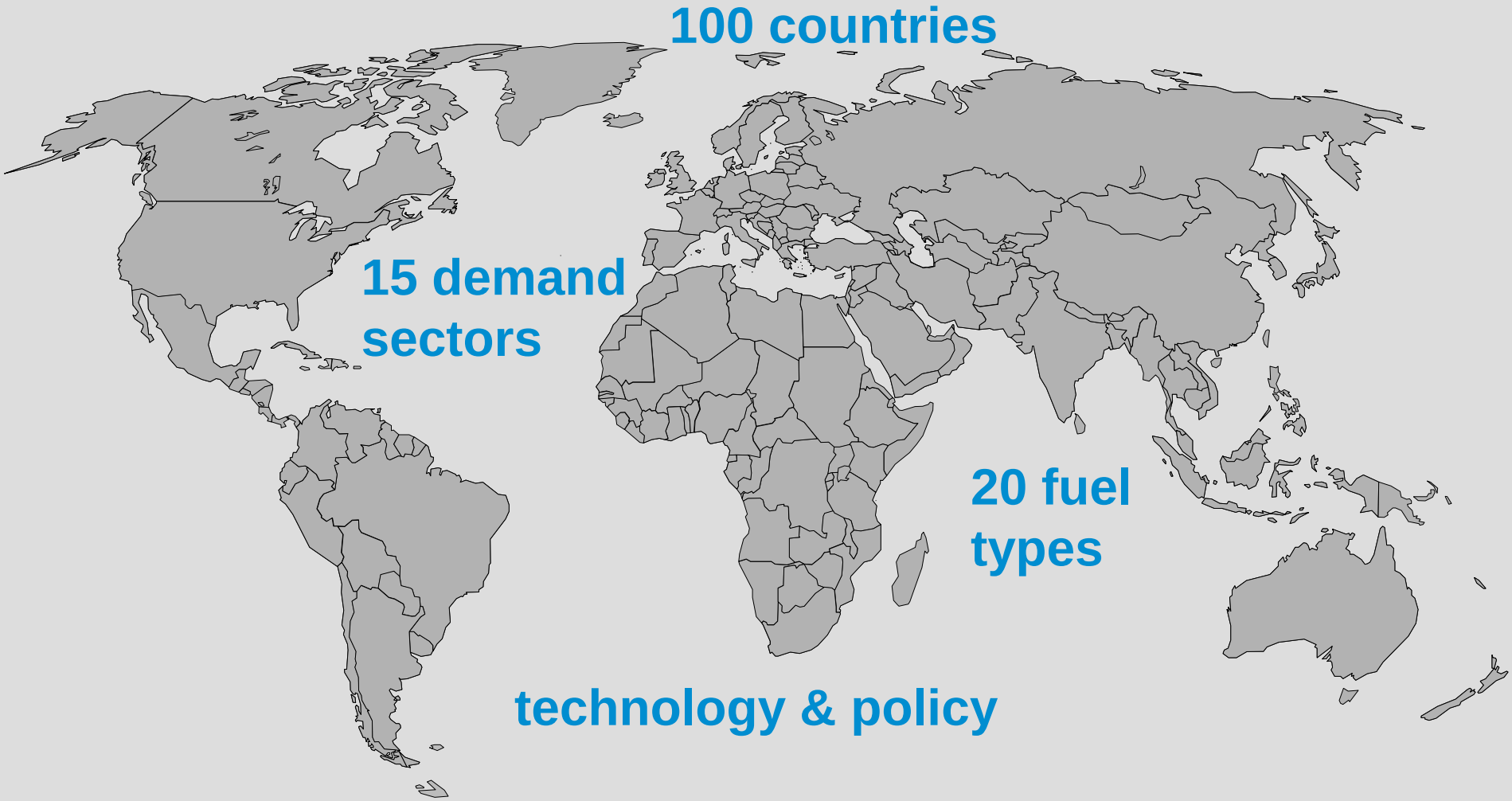
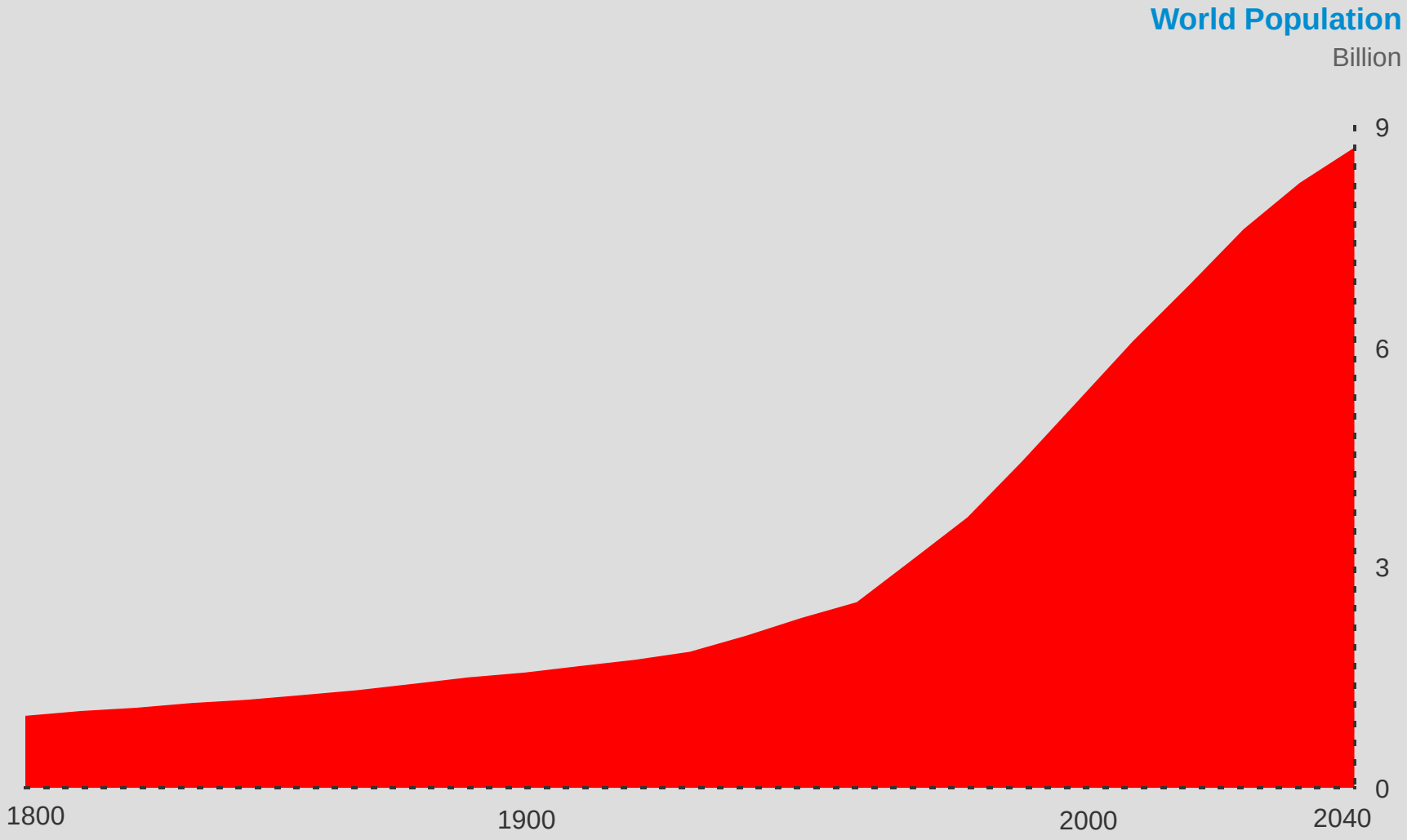
Energy Outlook Model



Population Growth Drives Energy Demand



Source: United Nations; ExxonMobil

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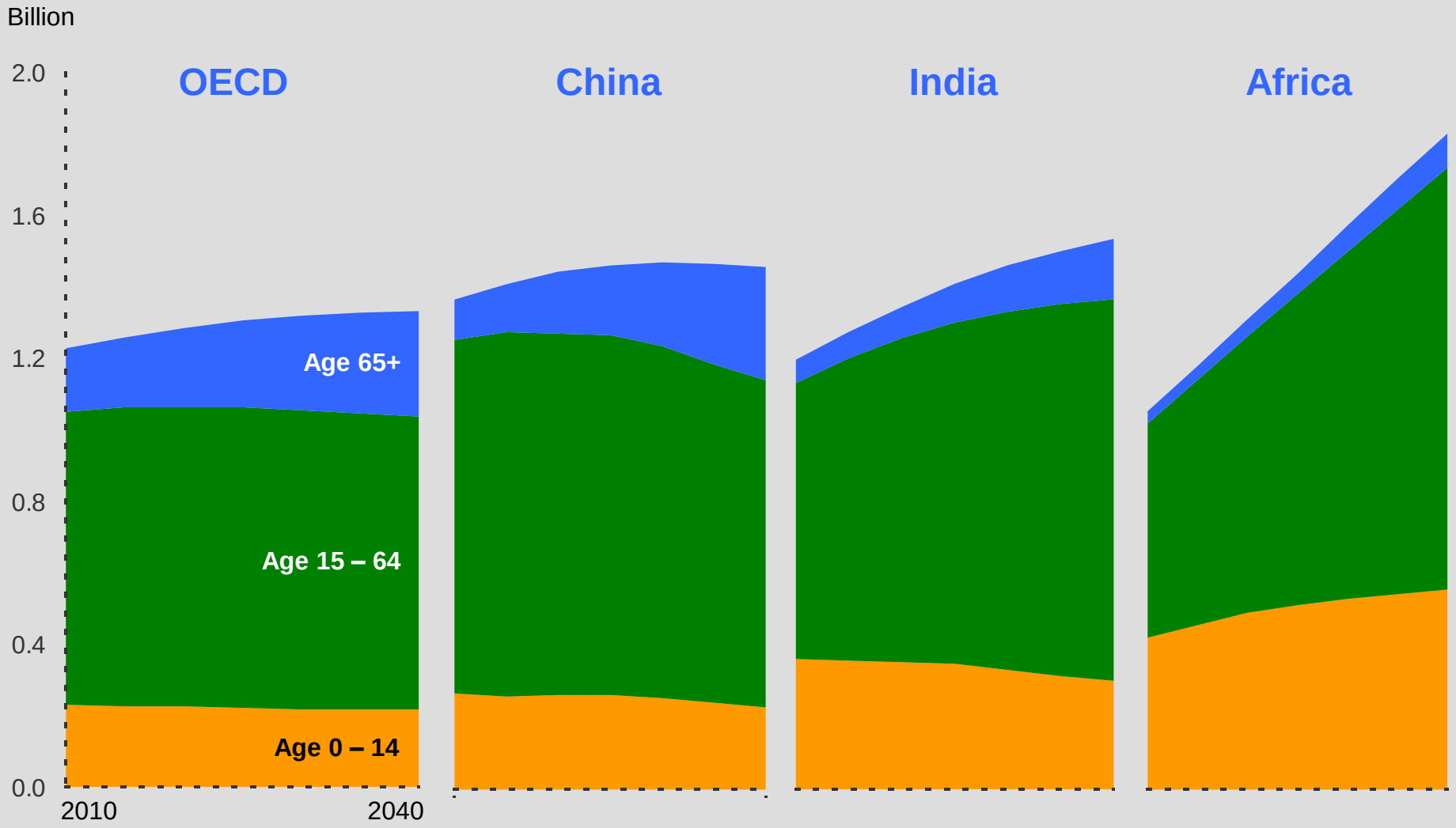
Demographic Shifts Alter Demand Profile



Source: World Bank

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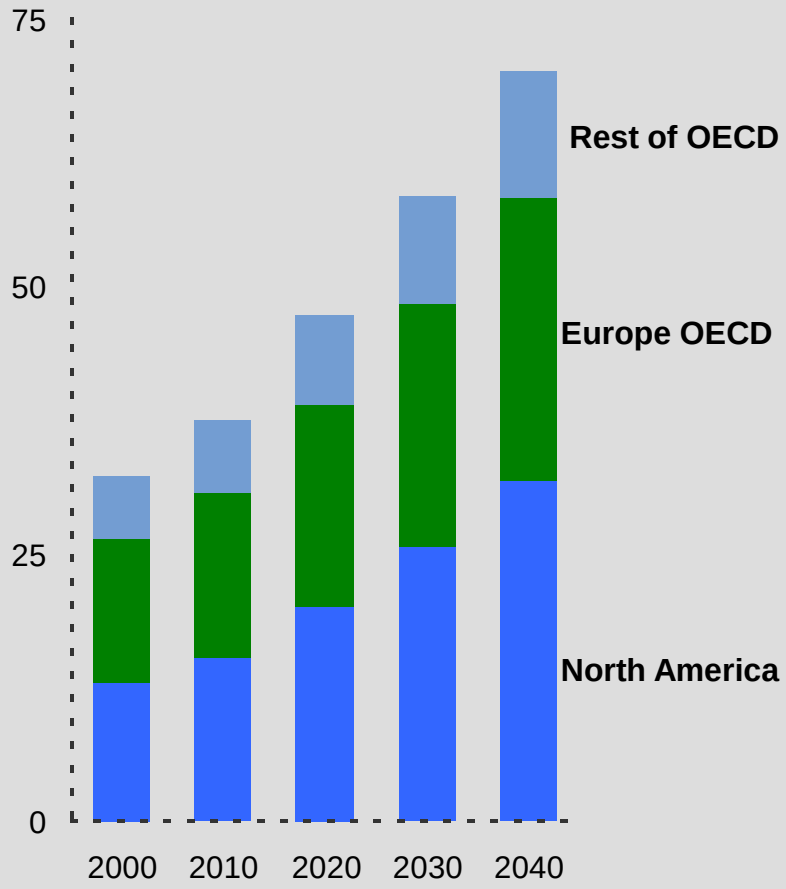
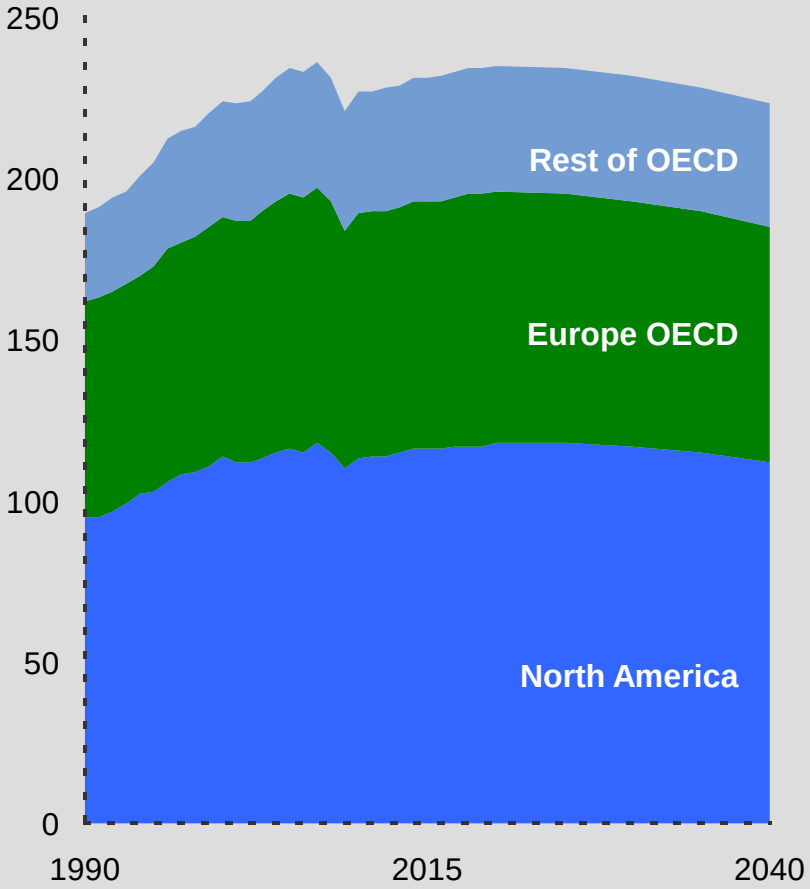
OECD Efficiency Moderates Demand

OECD GDP
Trillion 2005 $



OECD Demand
Quadrillion BTUs



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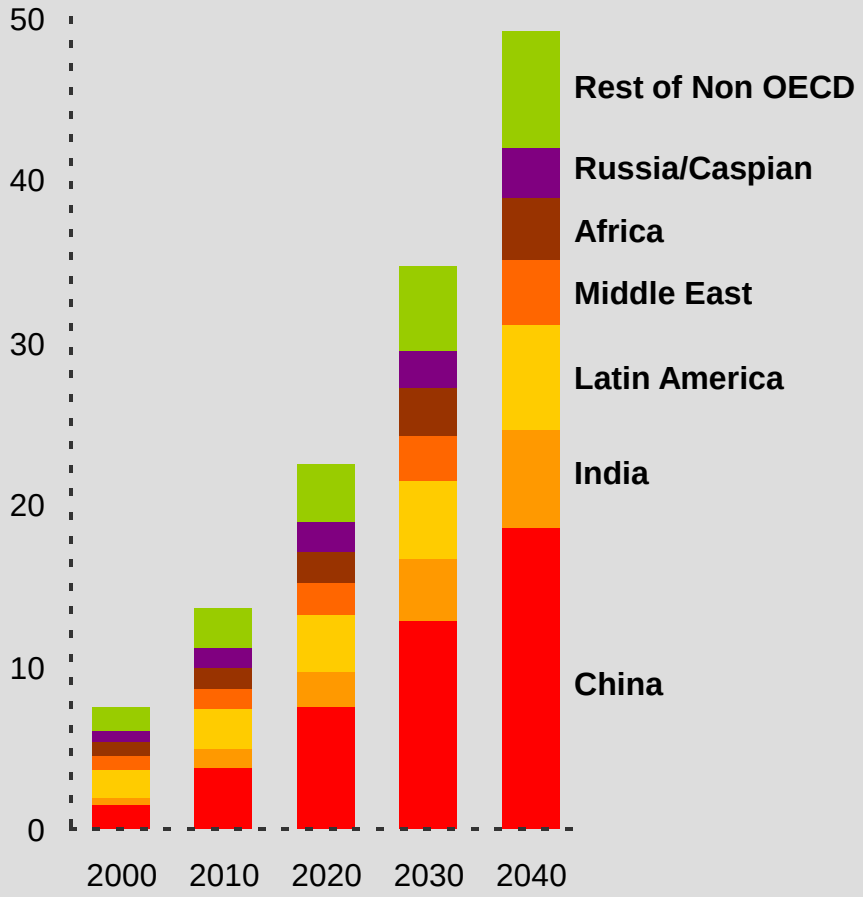
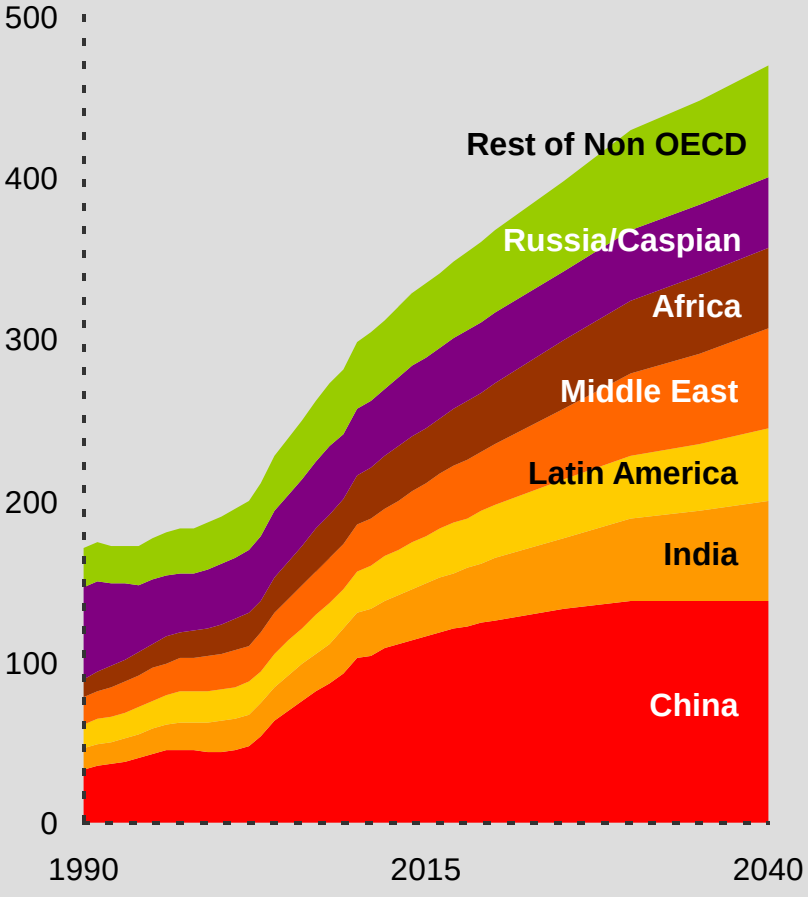
Rapidly Expanding Economies Drive Demand

Non OECD GDP
Trillion 2005 $



Non OECD Demand
Quadrillion BTUs



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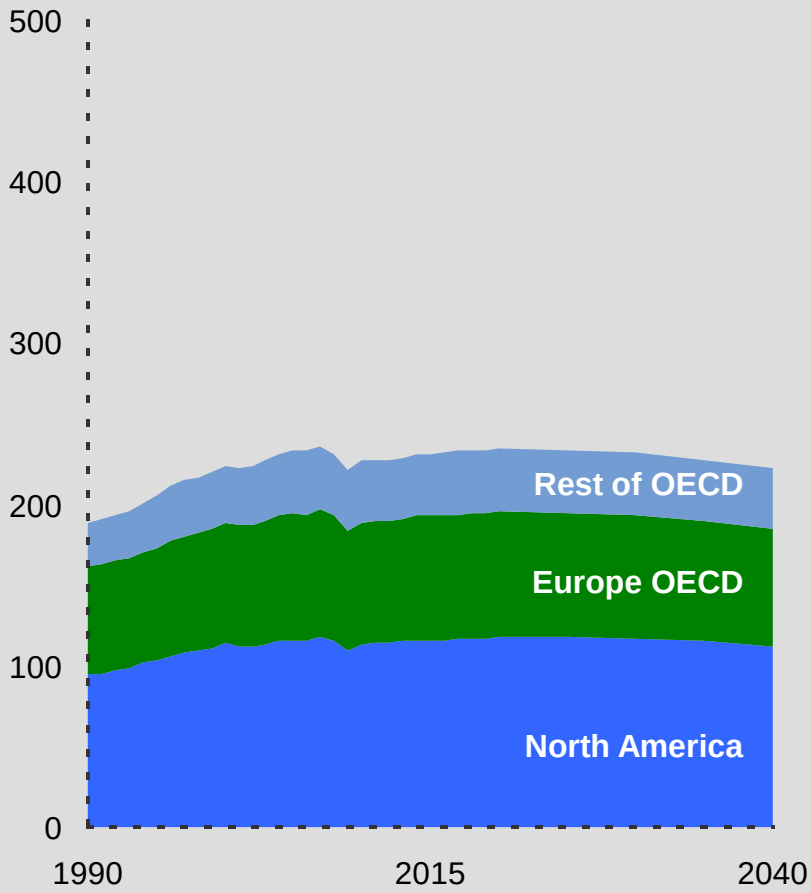
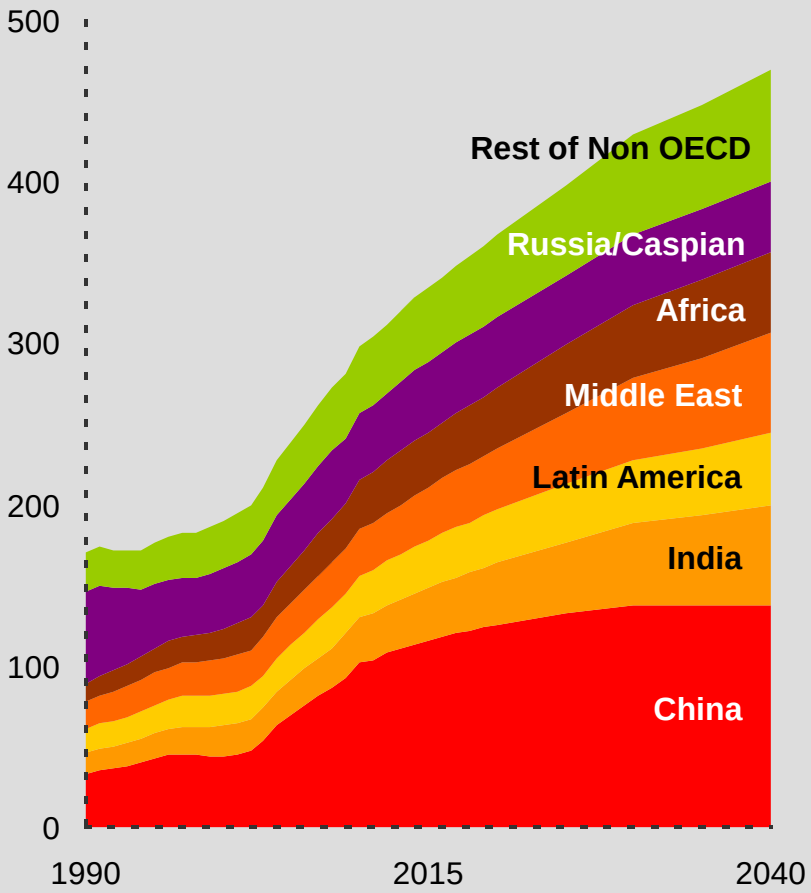
The Tale of Two Worlds

OECD Energy Demand
Quadrillion BTUs



Non OECD Energy Demand
Quadrillion BTUs



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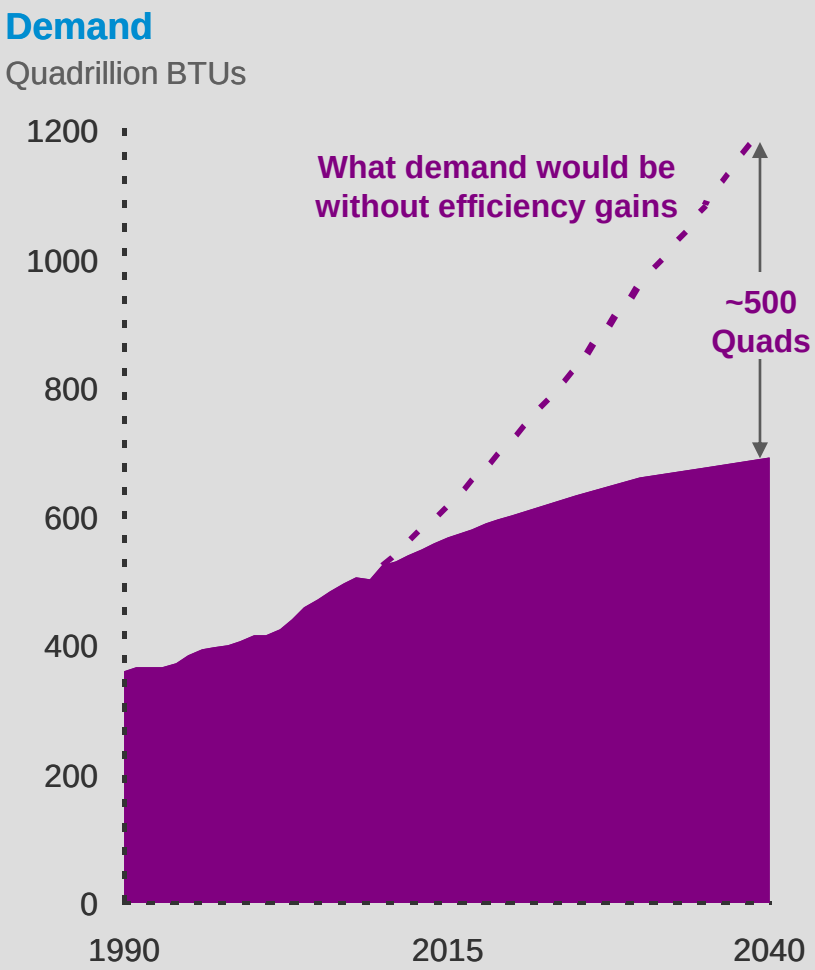
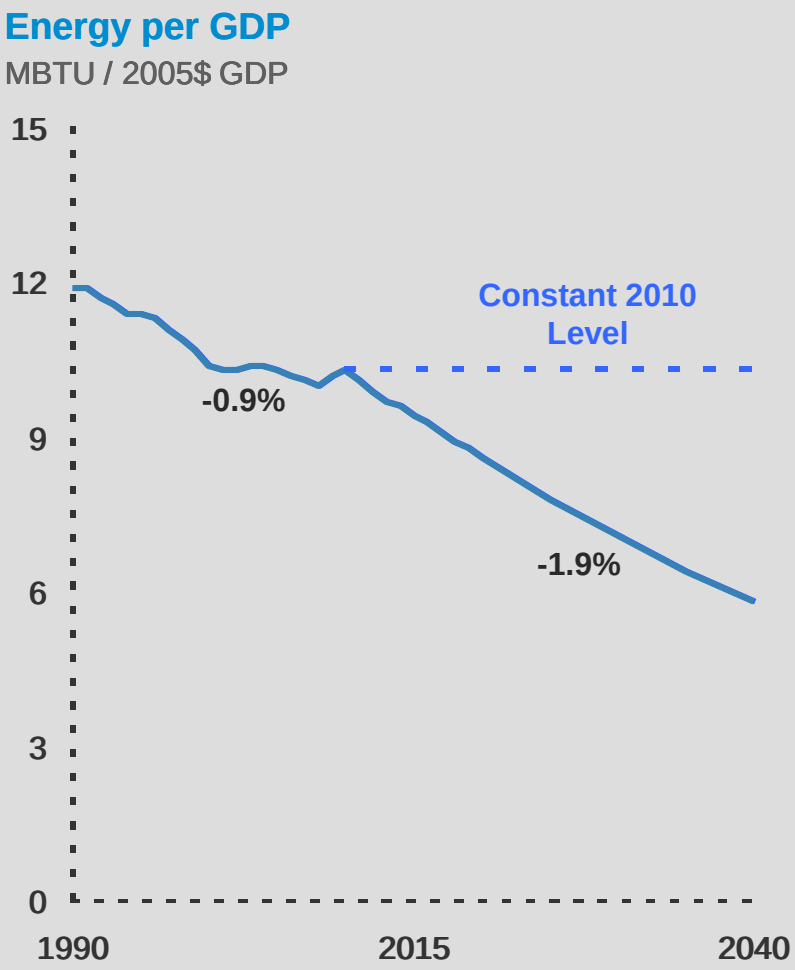
Global Efficiency Minimizes Demand Growth





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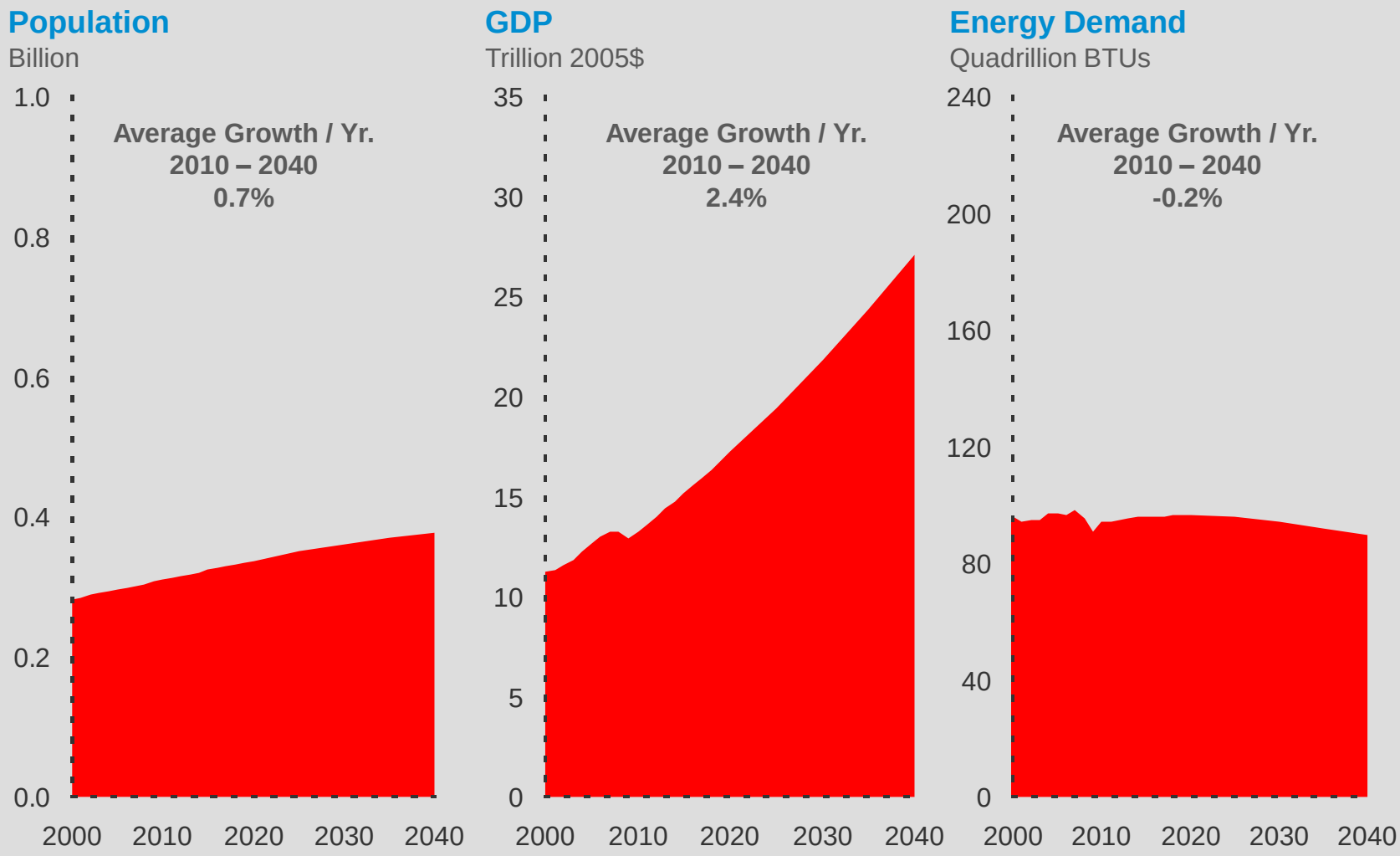
United States Energy Trends



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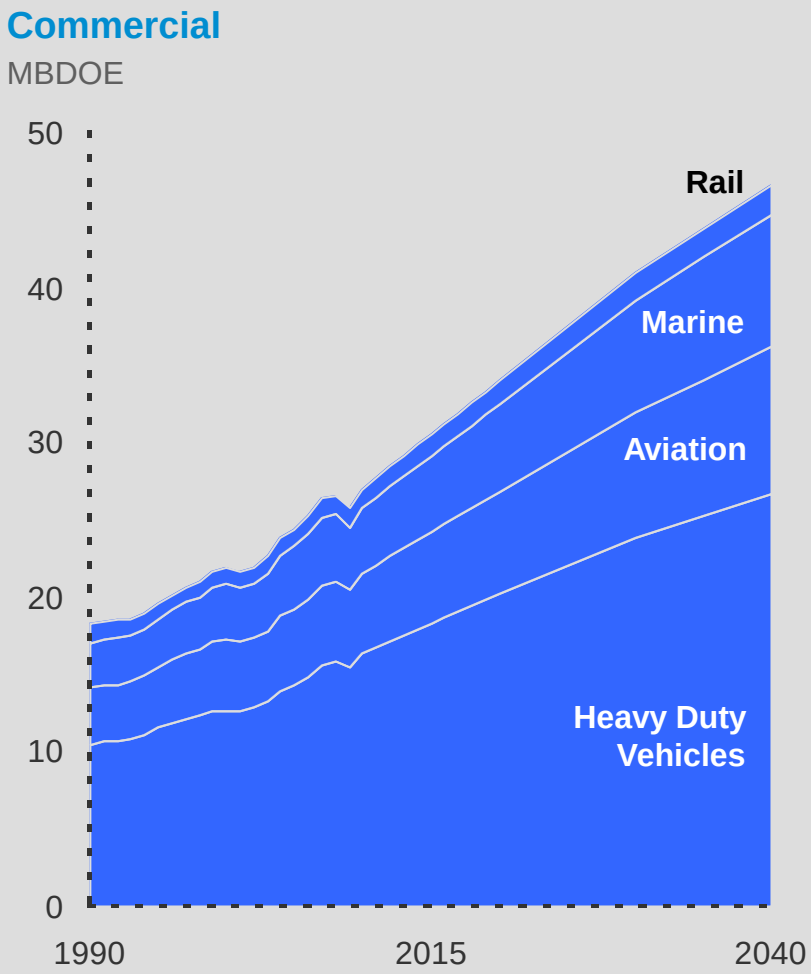
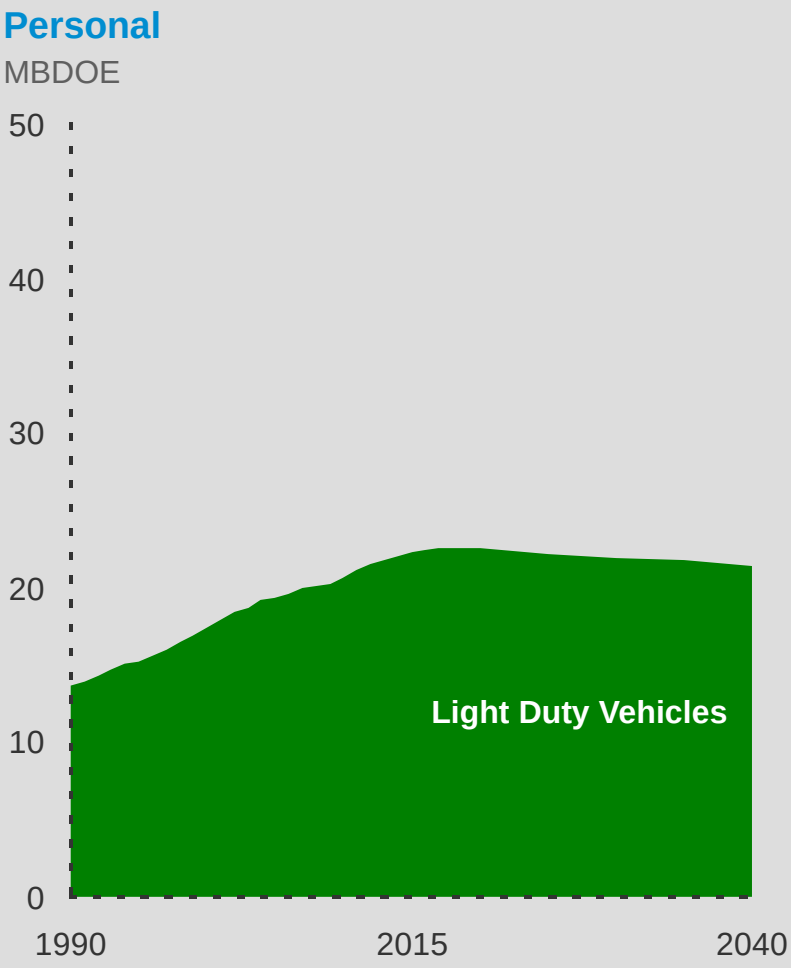
Transportation

90%

By 2040, 90% of transportation will run on liquid petroleum-based fuels.

Commercial Transportation Drives Demand Growth





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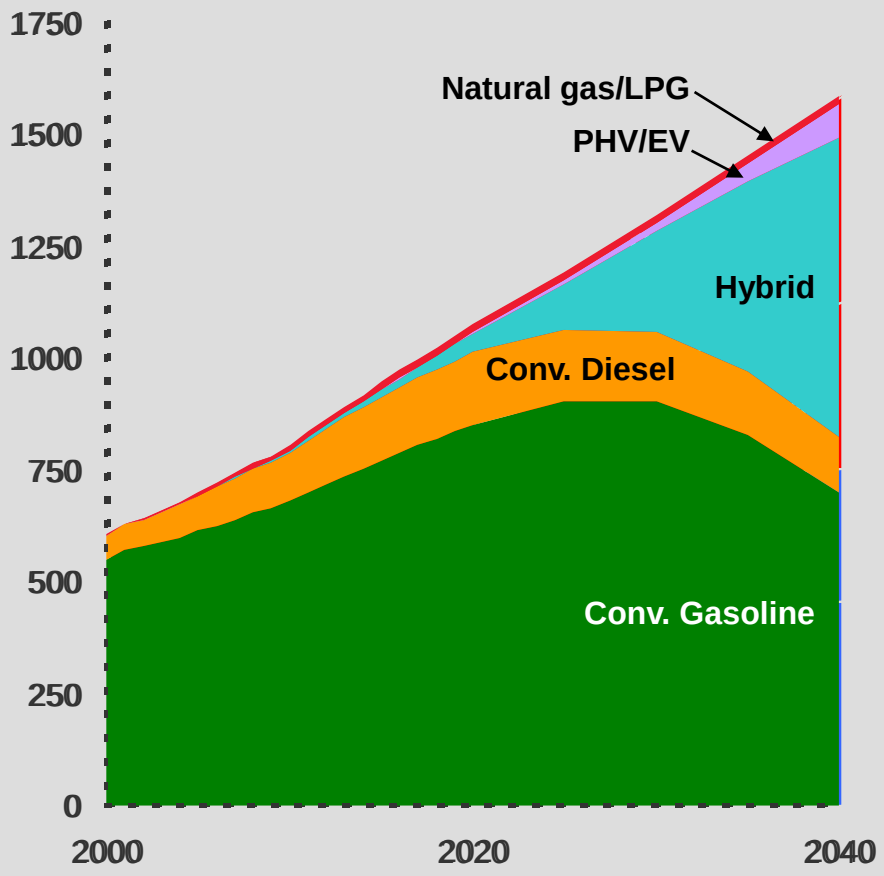
Impact of Global Fleet Shift on Efficiency

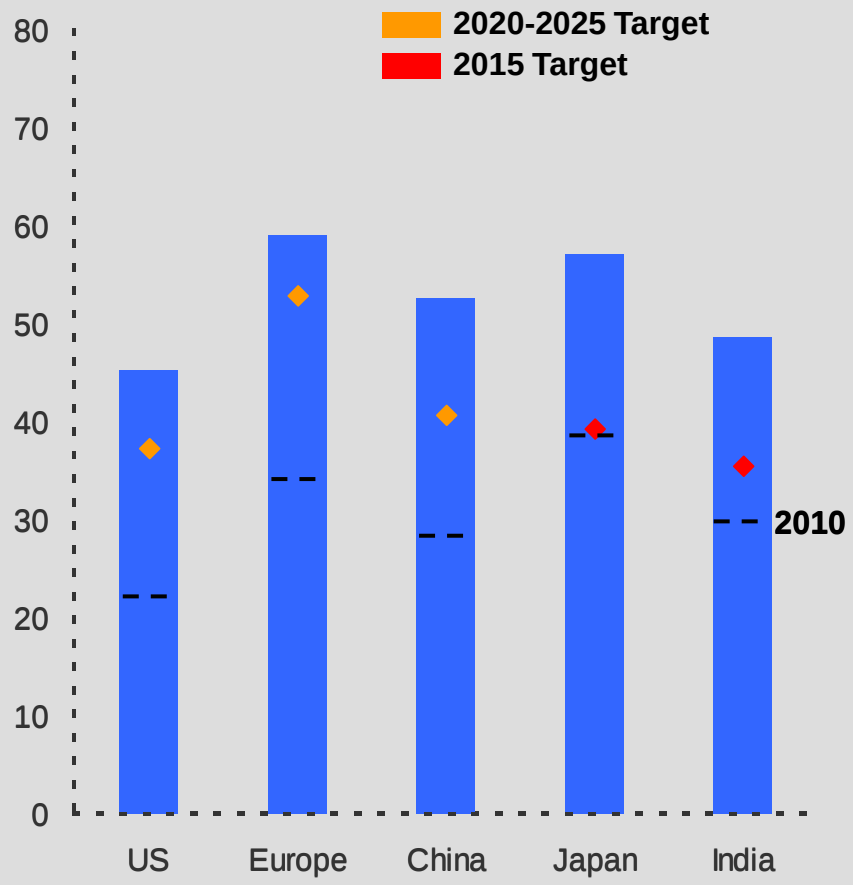
Light Duty Vehicle Fleet by Region

Million Vehicles



Avg New Car Fuel Efficiency in 2040

On-Road MPG



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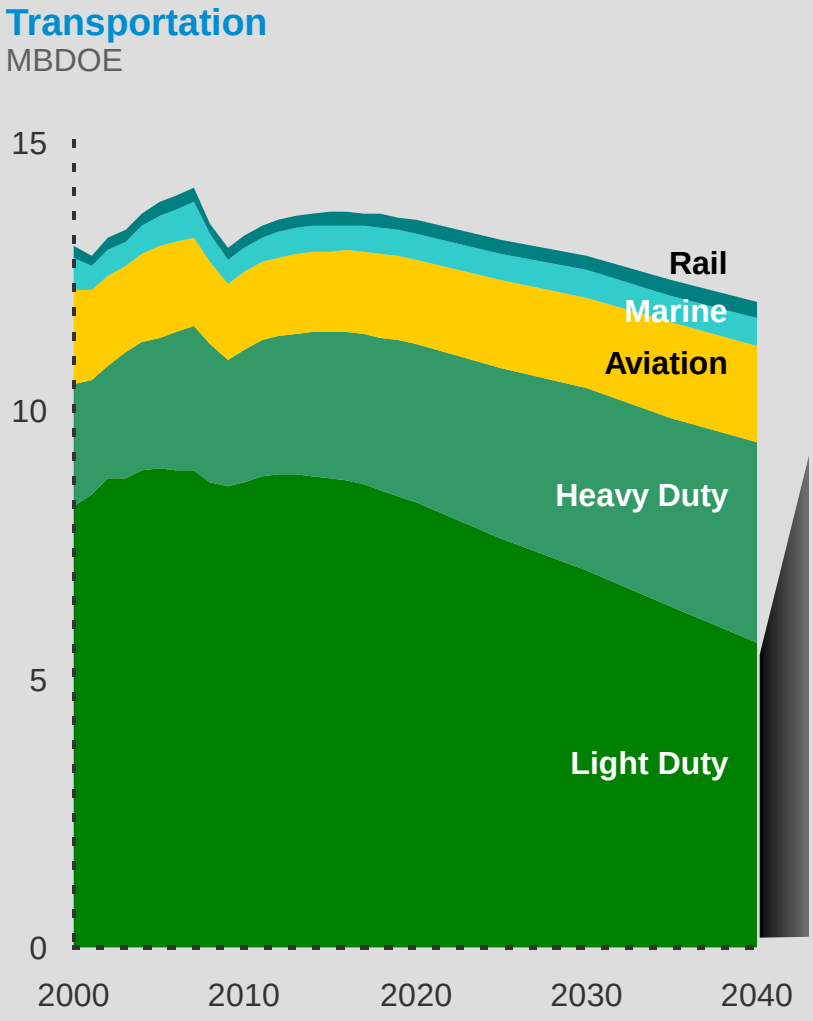
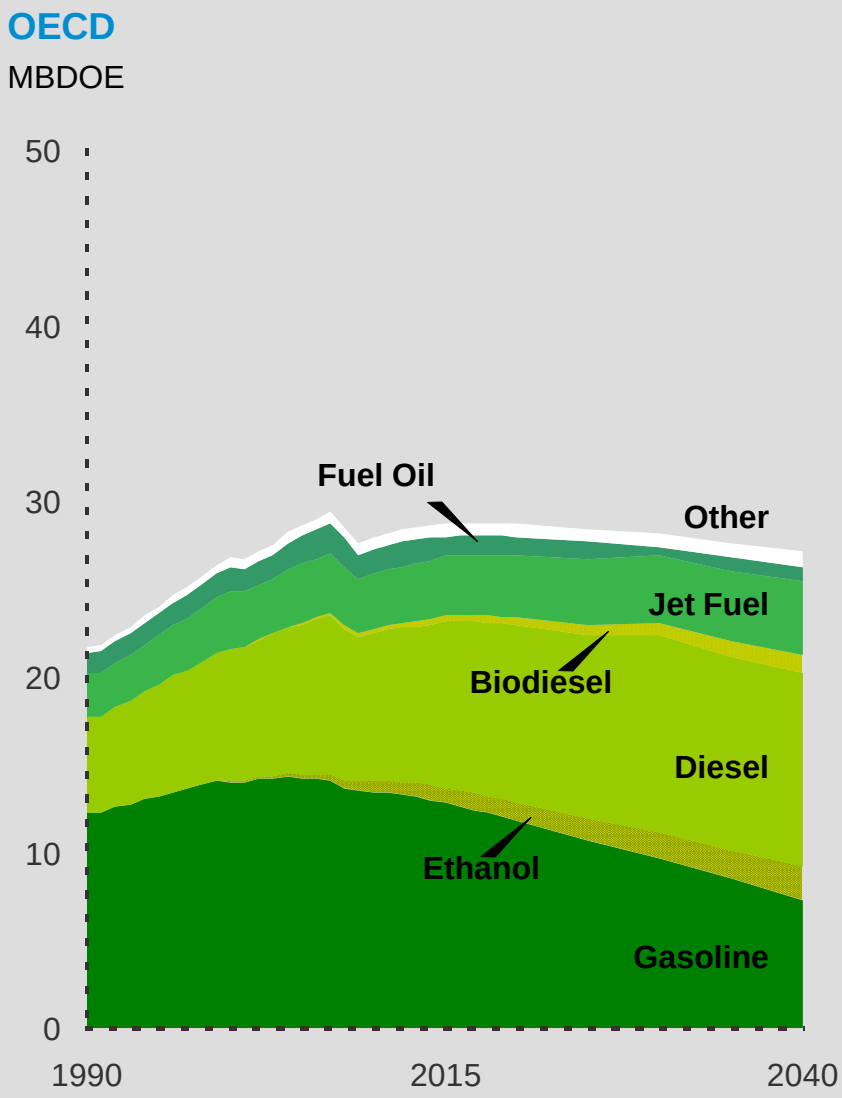
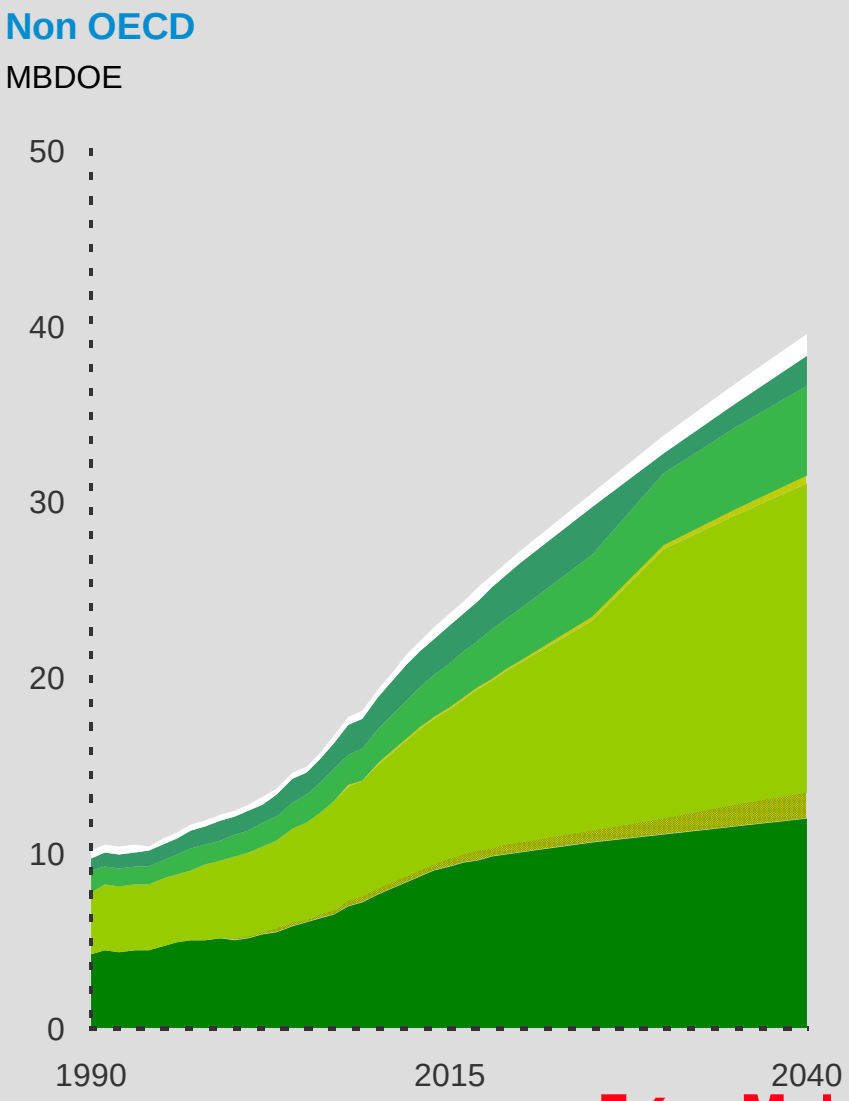
U.S. Personal Transportation Demand Falls



Transportation Fuel Demand Shifts to Diesel





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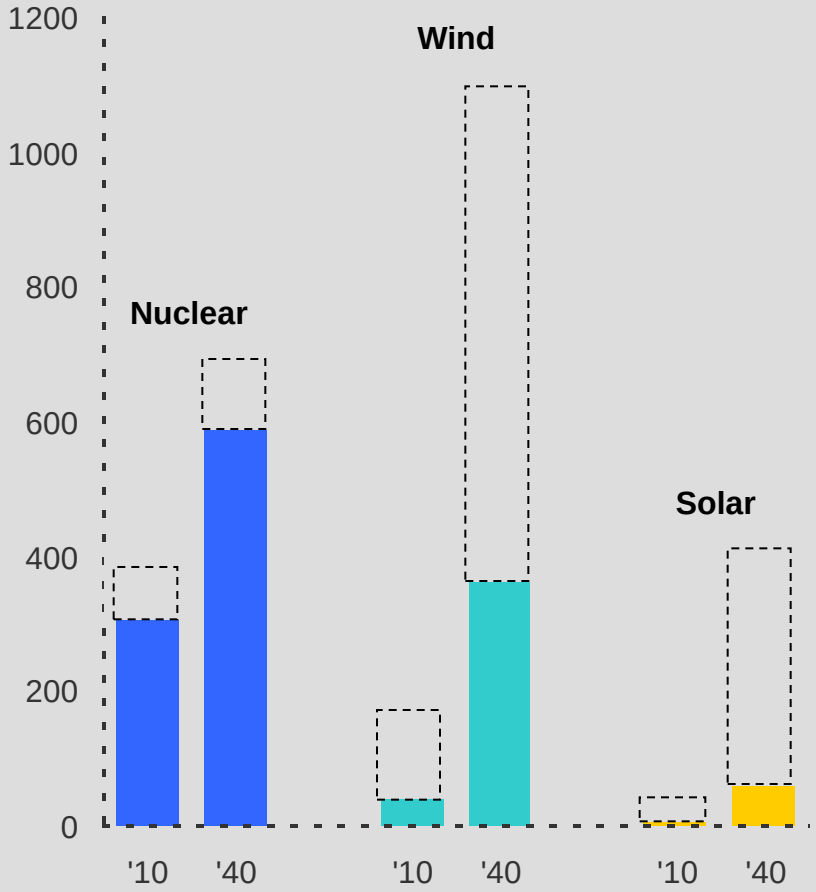
Electricity Generation

+80%

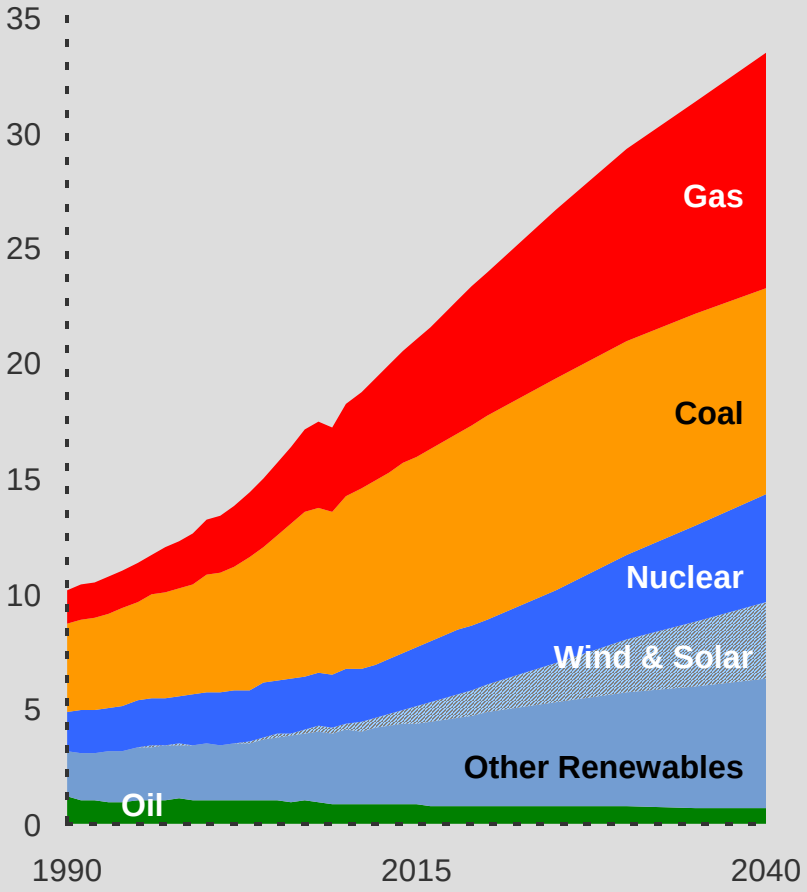
By 2040, worldwide electricity demand will be 80% higher.

Global Electricity Generation Mix Evolves

Global Capacity Utilized
GW



By Generation
k TWh



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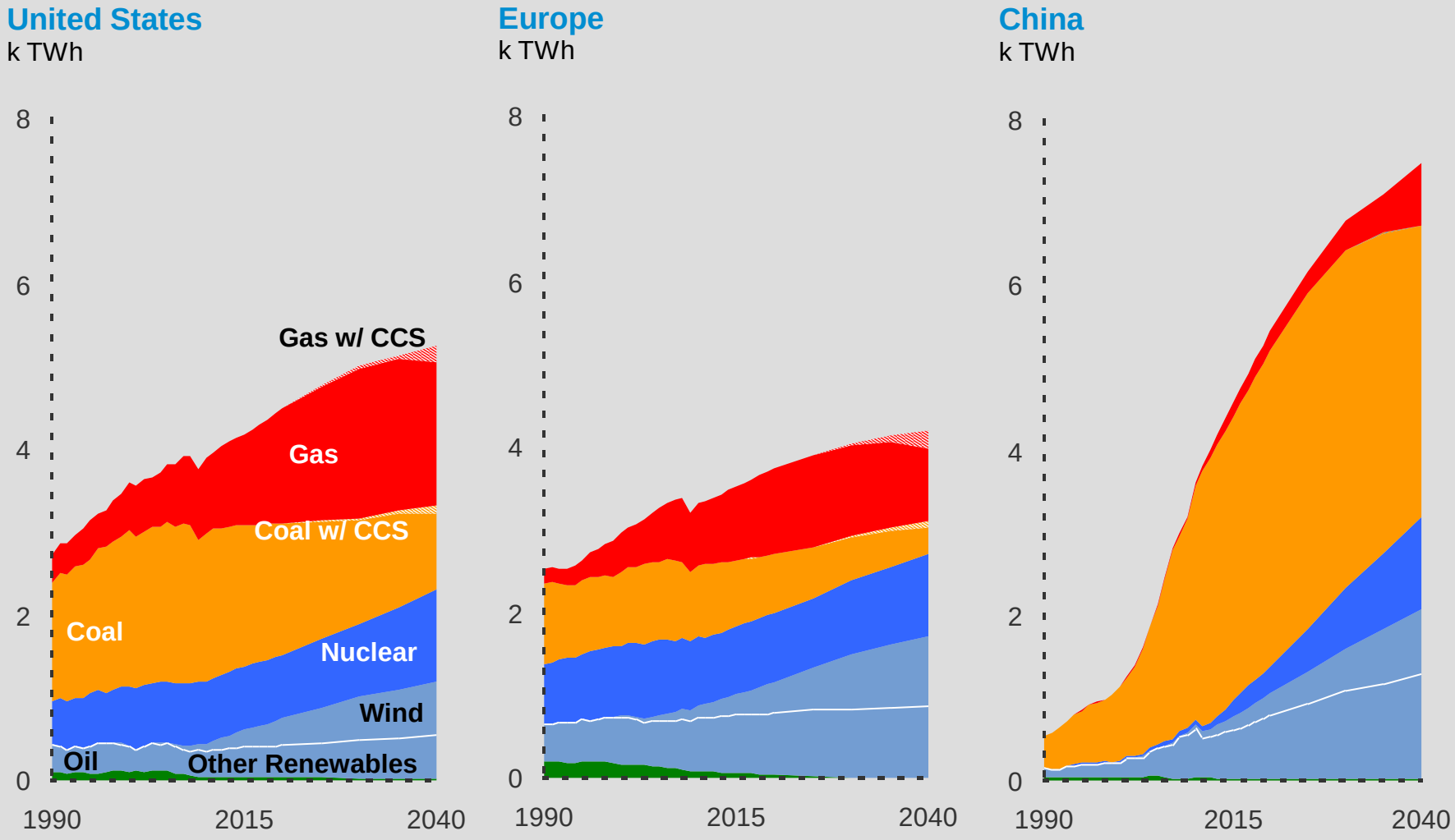
Electricity Supply Varies Globally



** Generation by Type*

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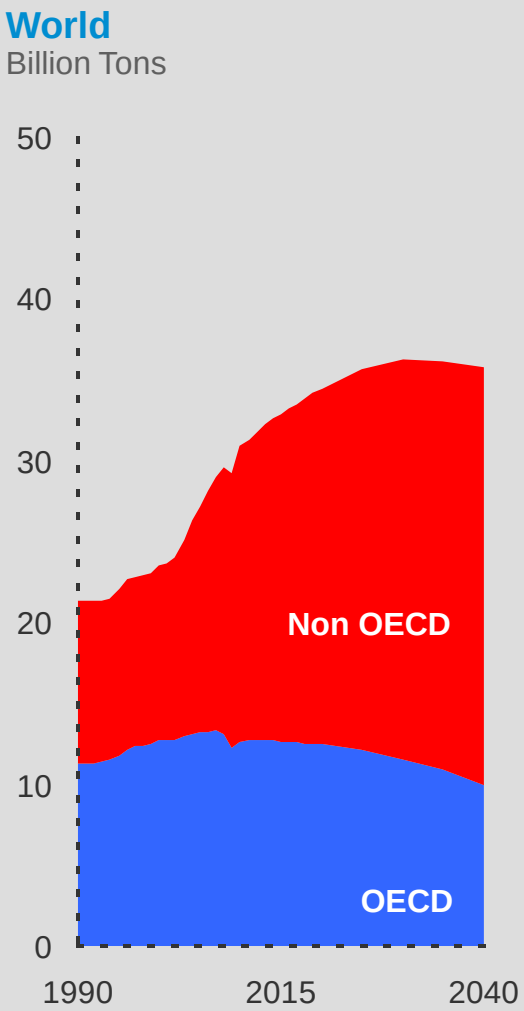
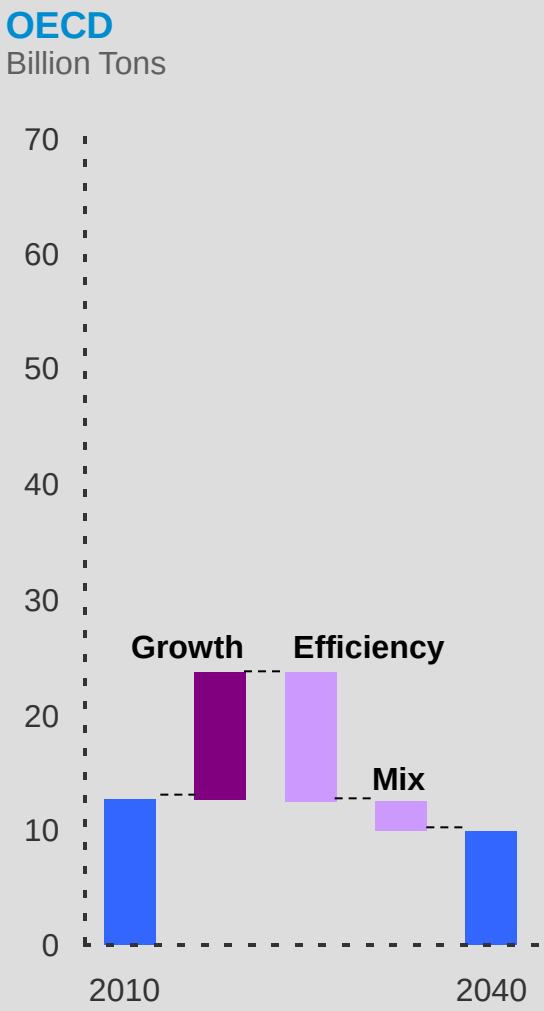
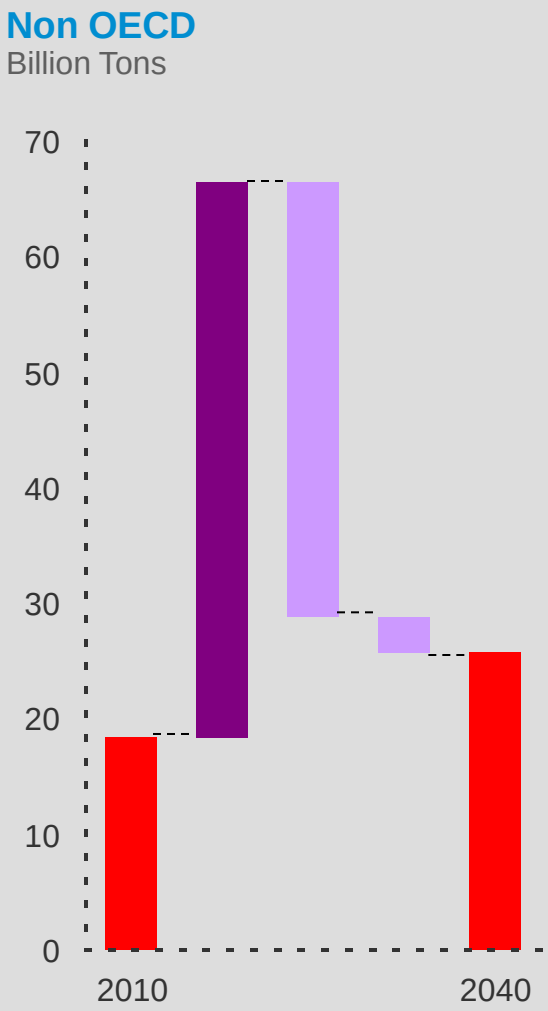
CO_2 Emissions Moderate







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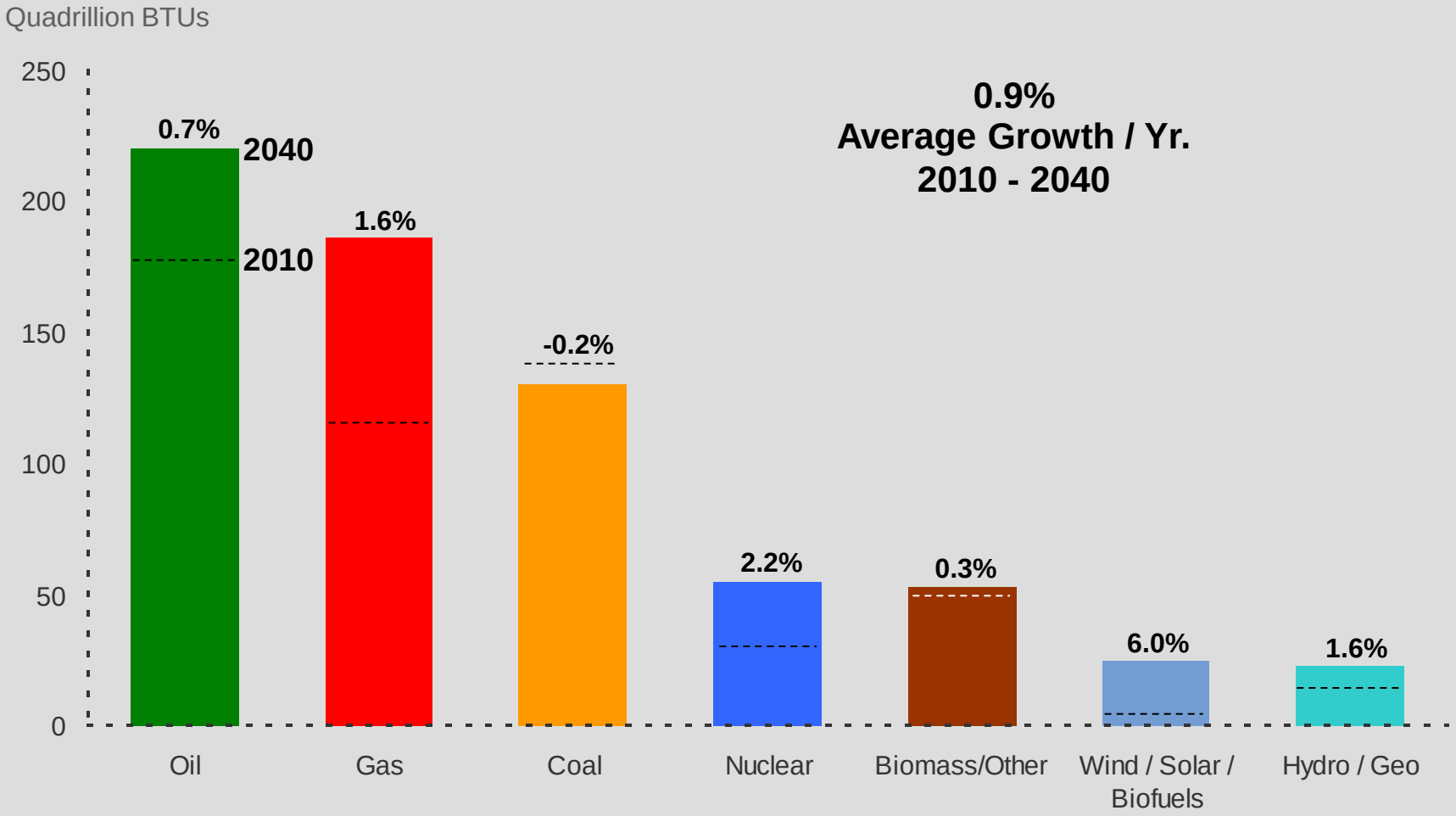
Energy Mix Continues to Evolve



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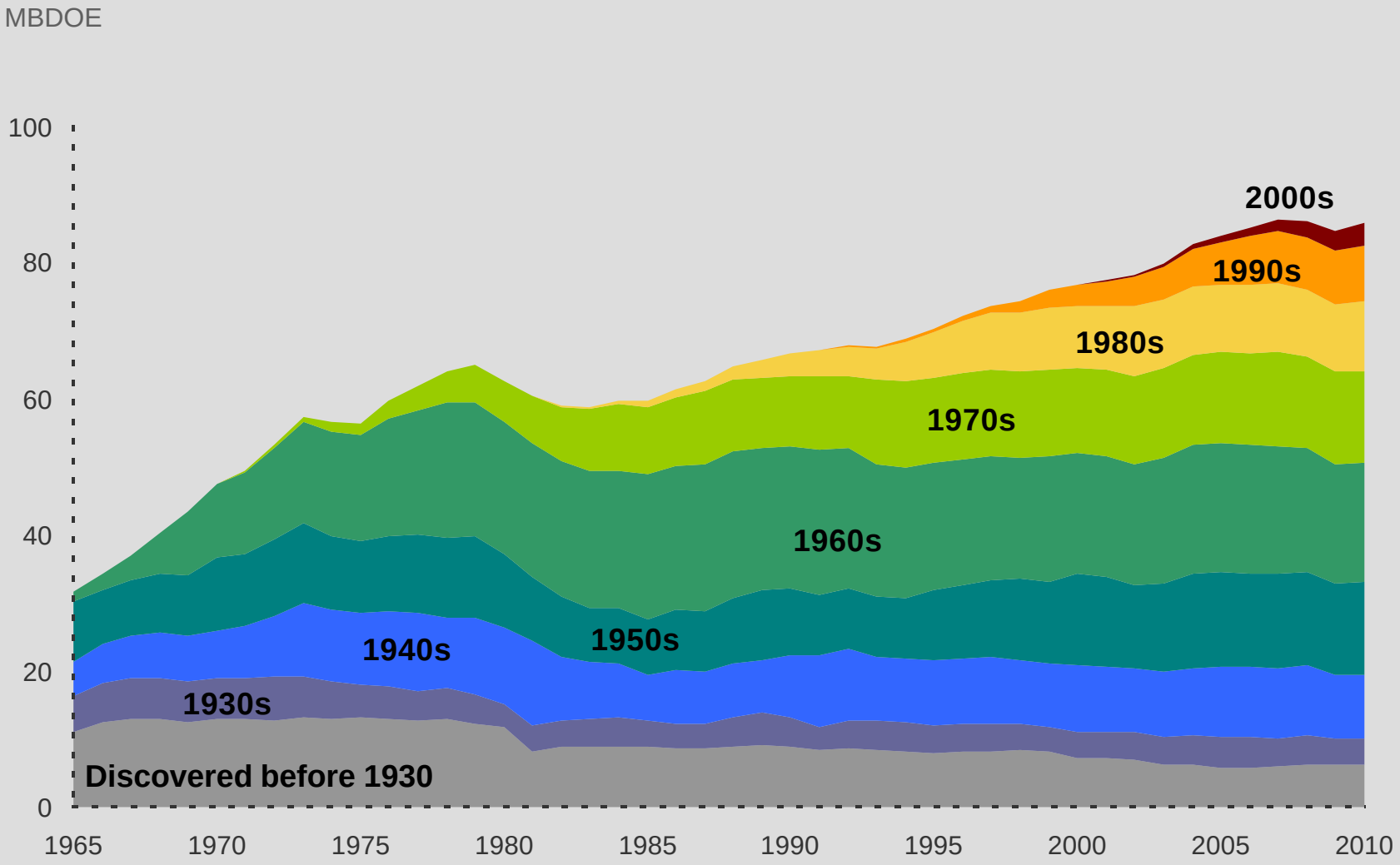
Supply

By 2040

60%

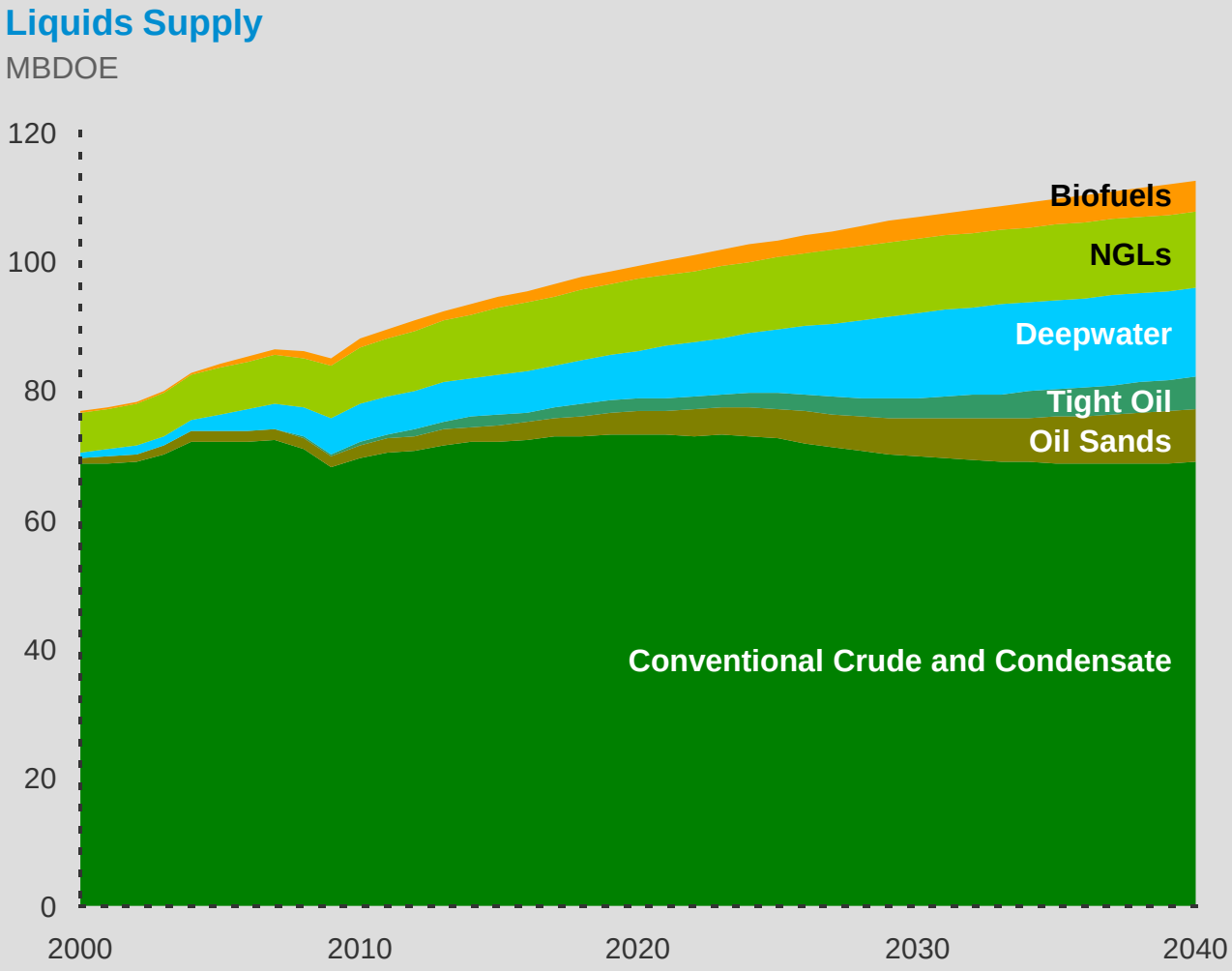
of global demand will be supplied by oil & gas.

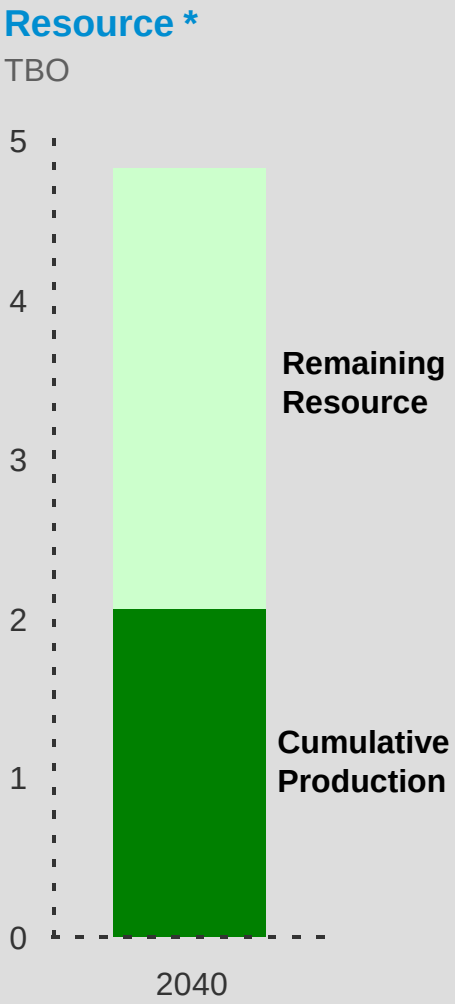
Global Oil Production by Discovery Date



Exxon Mobil 2012 Outlook for Energy based on Wood Mackenzie Limited & Nehring Associates data

Liquids Supply Continues to Diversify





** Source: Total resource from IHS Inc. The use of this content was authorized in advance by IHS.*

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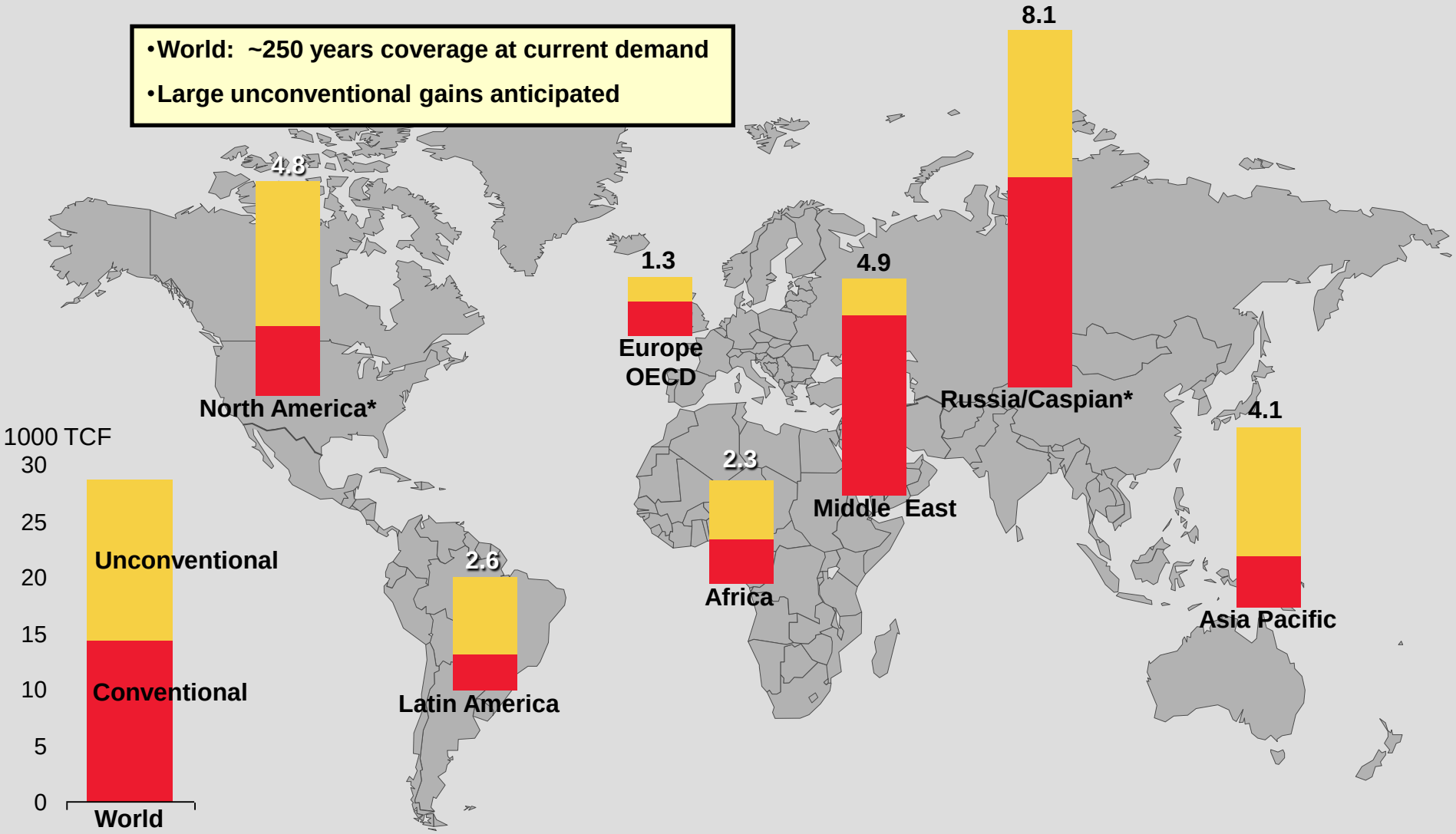
Global Gas Resource

- World: ~250 years coverage at current demand
- Large unconventional gains anticipated



*Source: IEA; * Includes Europe Non OECD*

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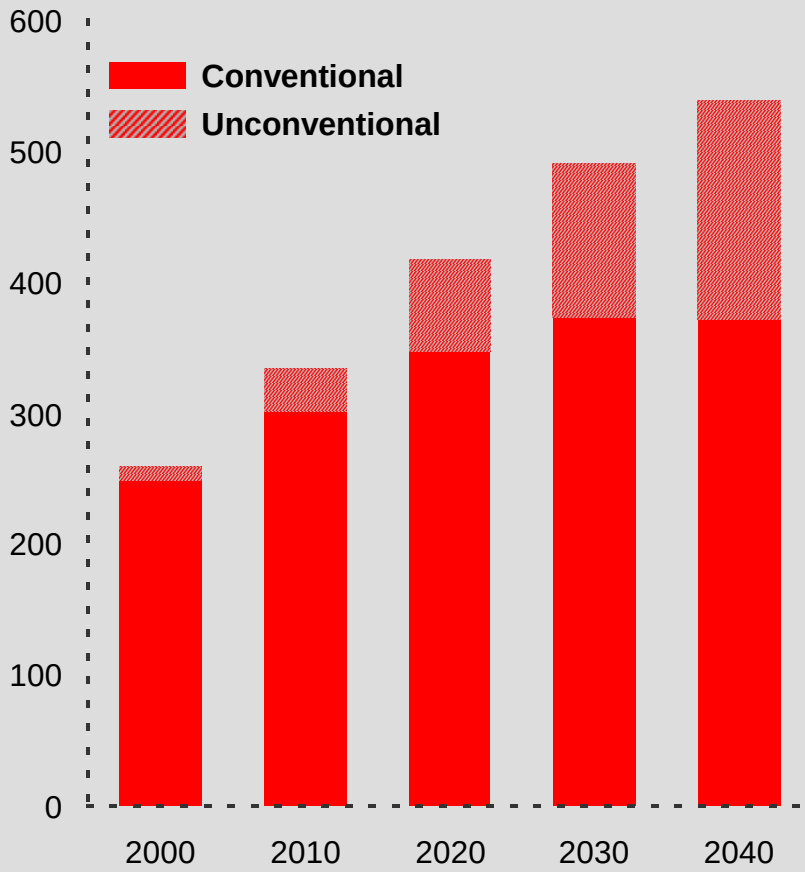
Unconventional Gas Contribution Increases

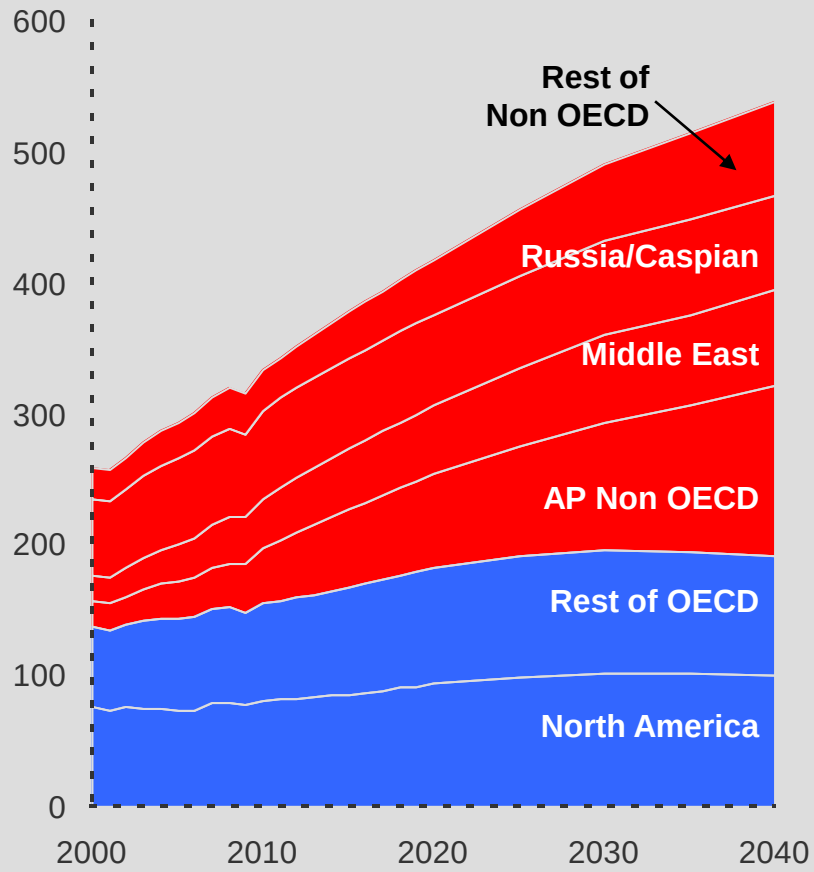
Production by Type

BCFD



Demand by Region

BCFD



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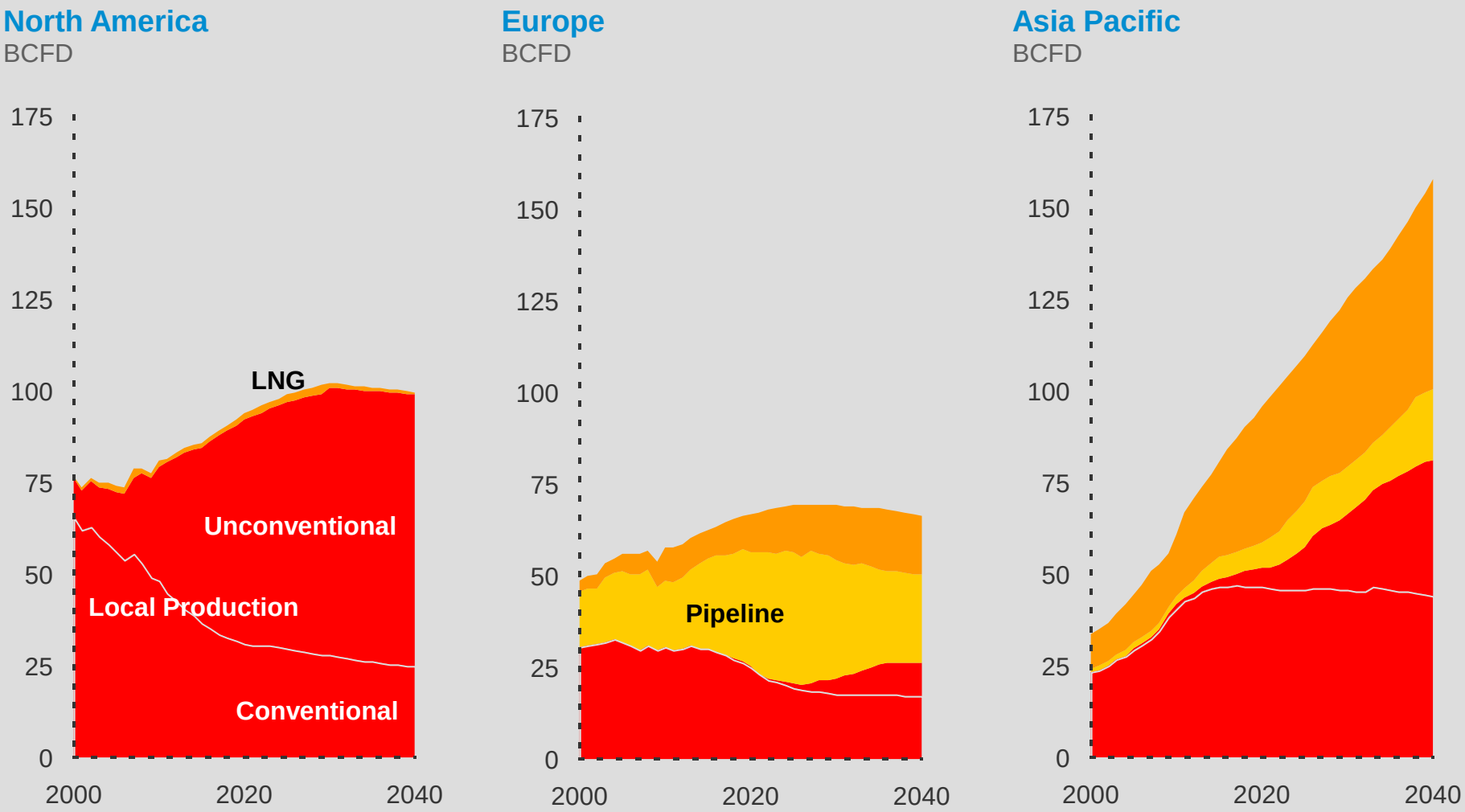
Gas Supply Grows and Diversifies



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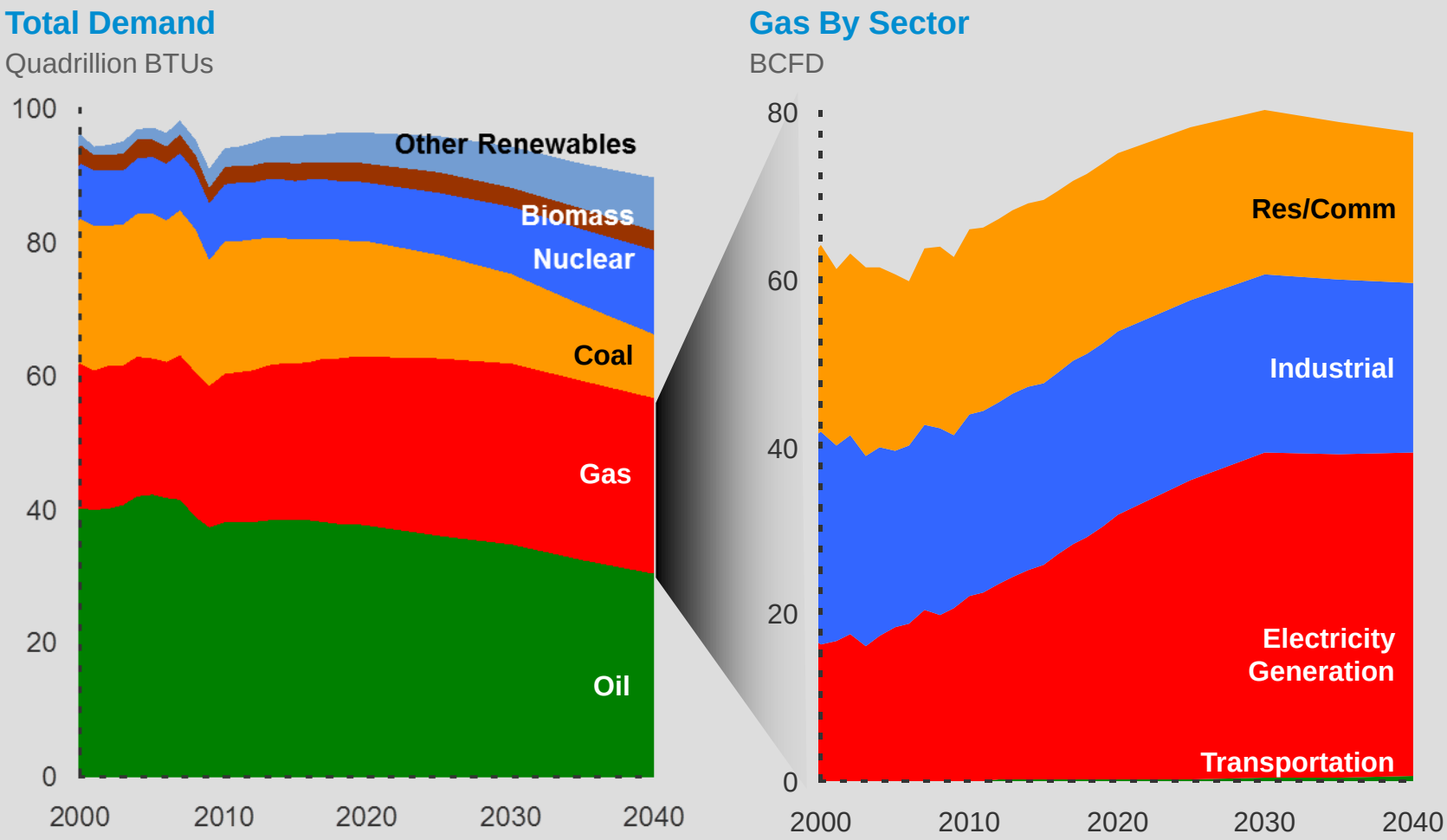
United States Natural Gas Demand



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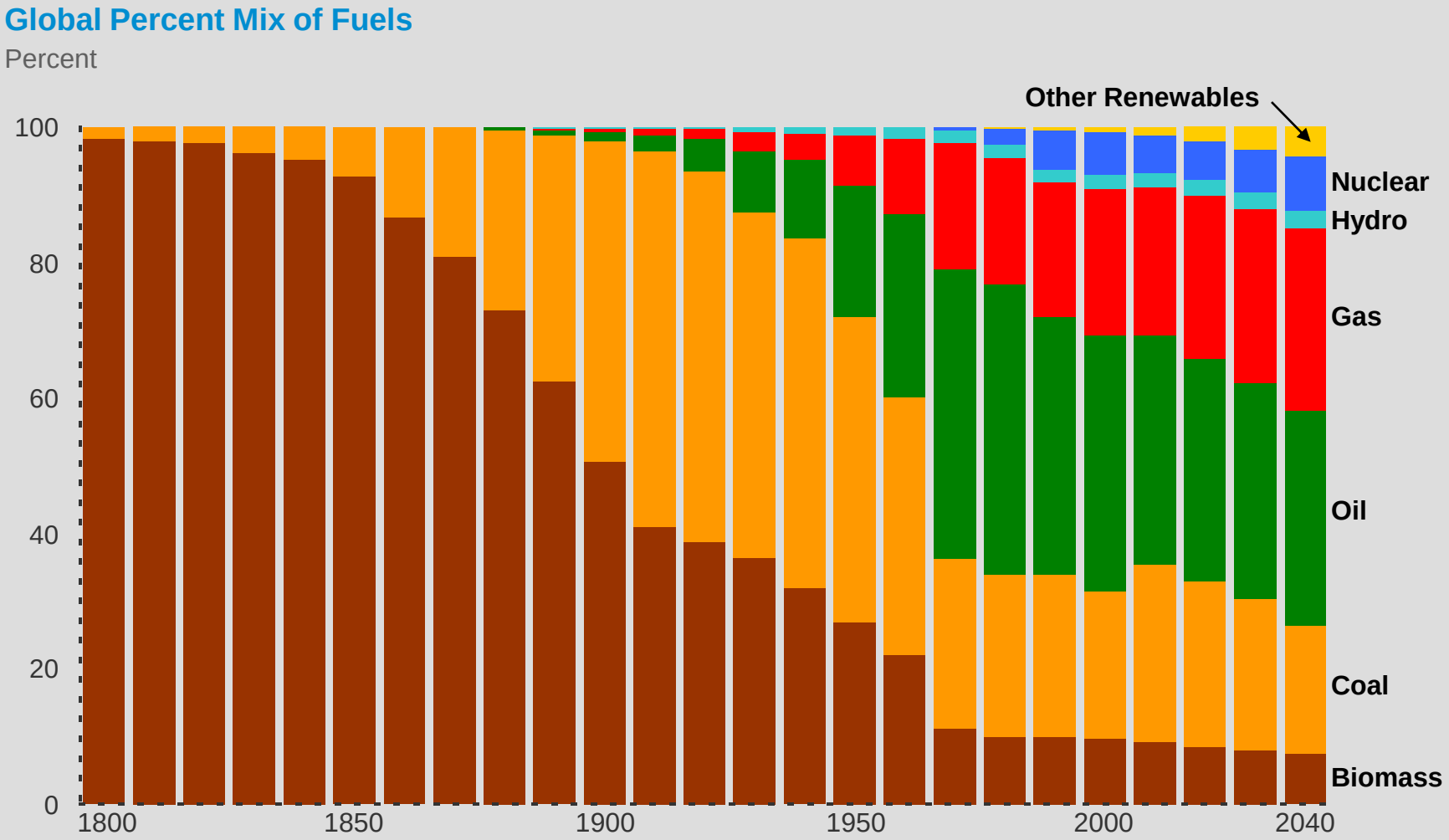
Energy Use Evolves Over Time



Source: Smil, *Energy Transitions* (1800-1960)

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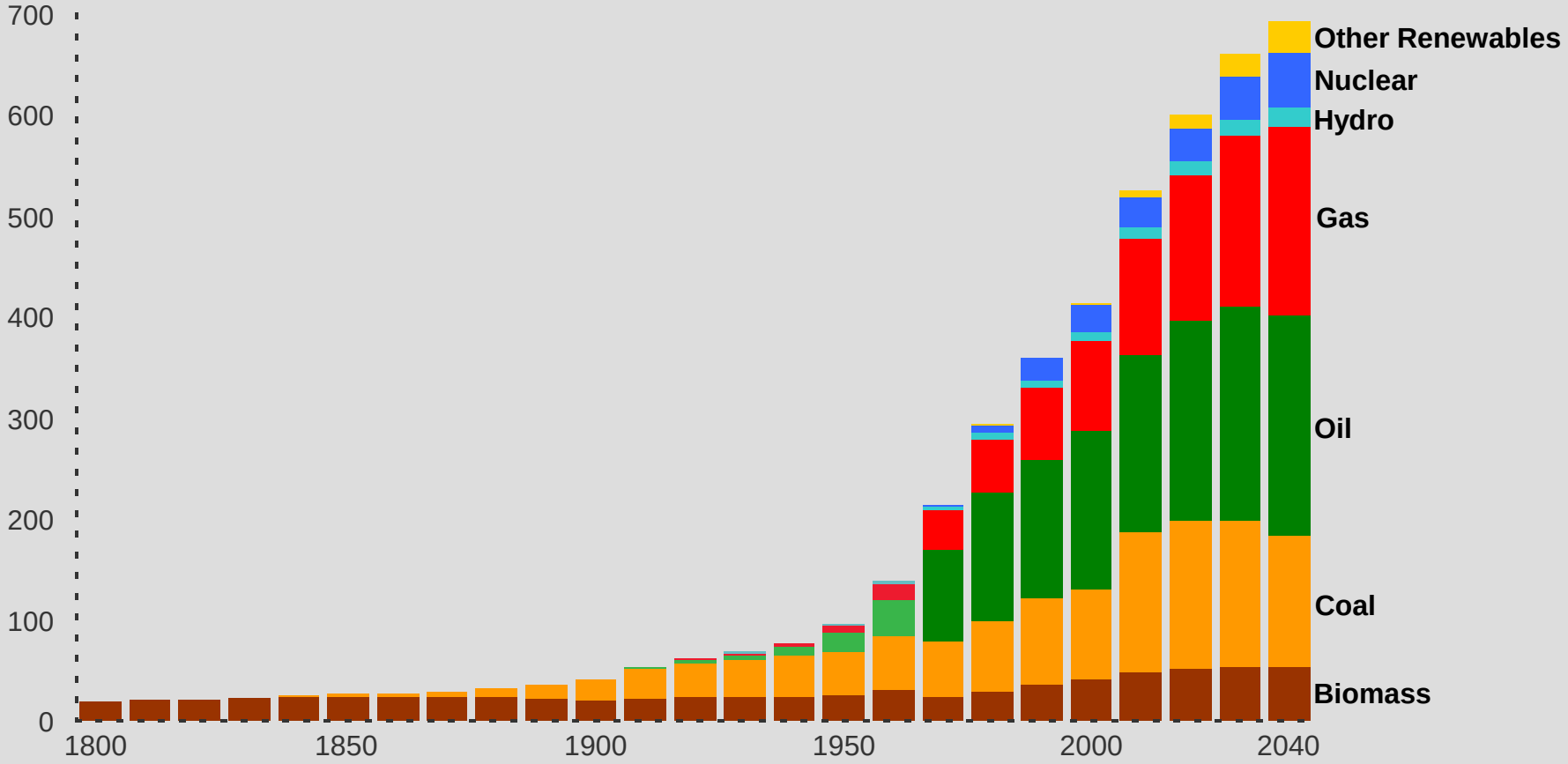
Economic and Energy Evolution

Global Demand By Fuel

Quadrillion BTUs



Source: Smil, *Energy Transitions* (1800-1960)

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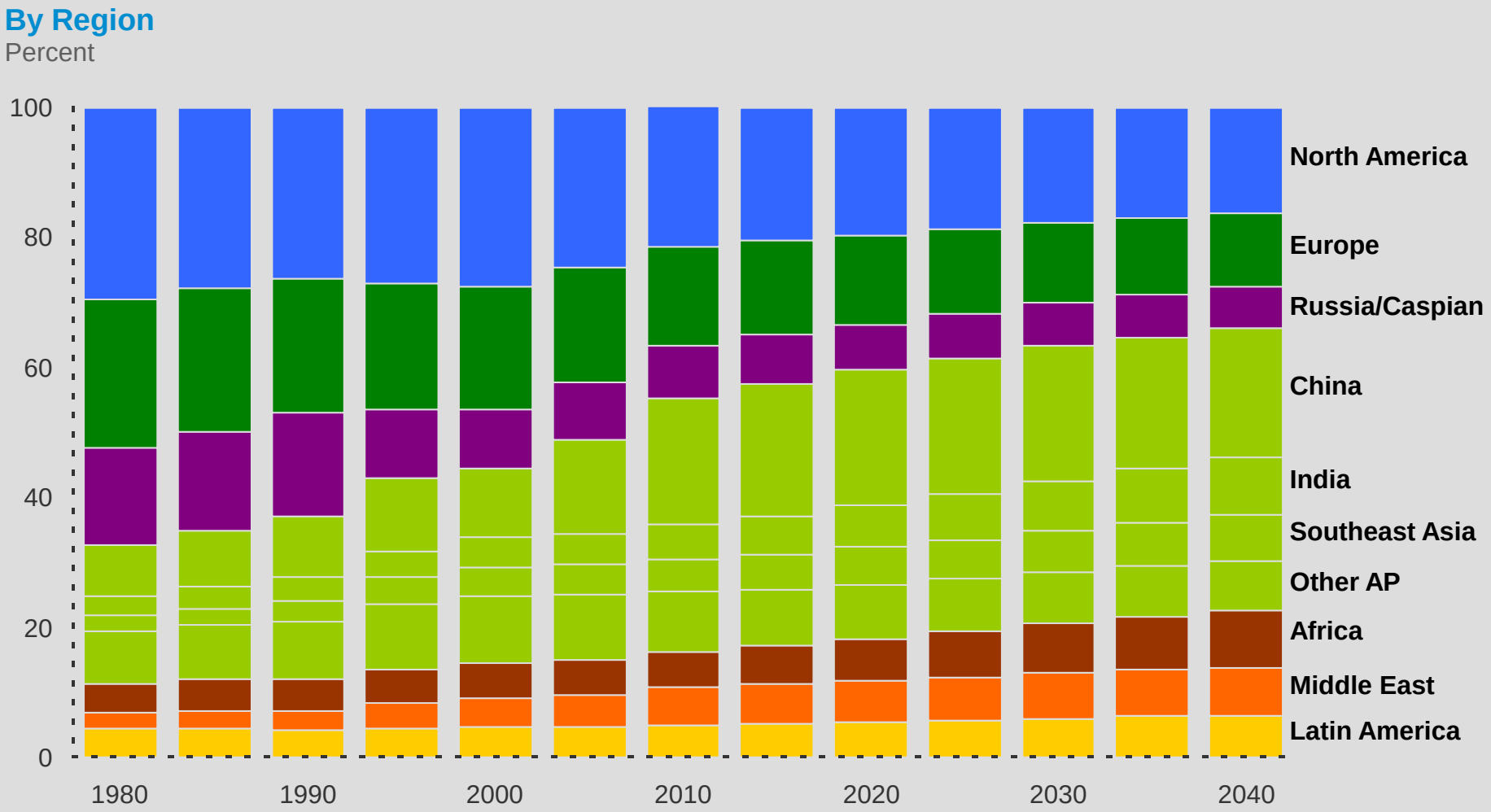
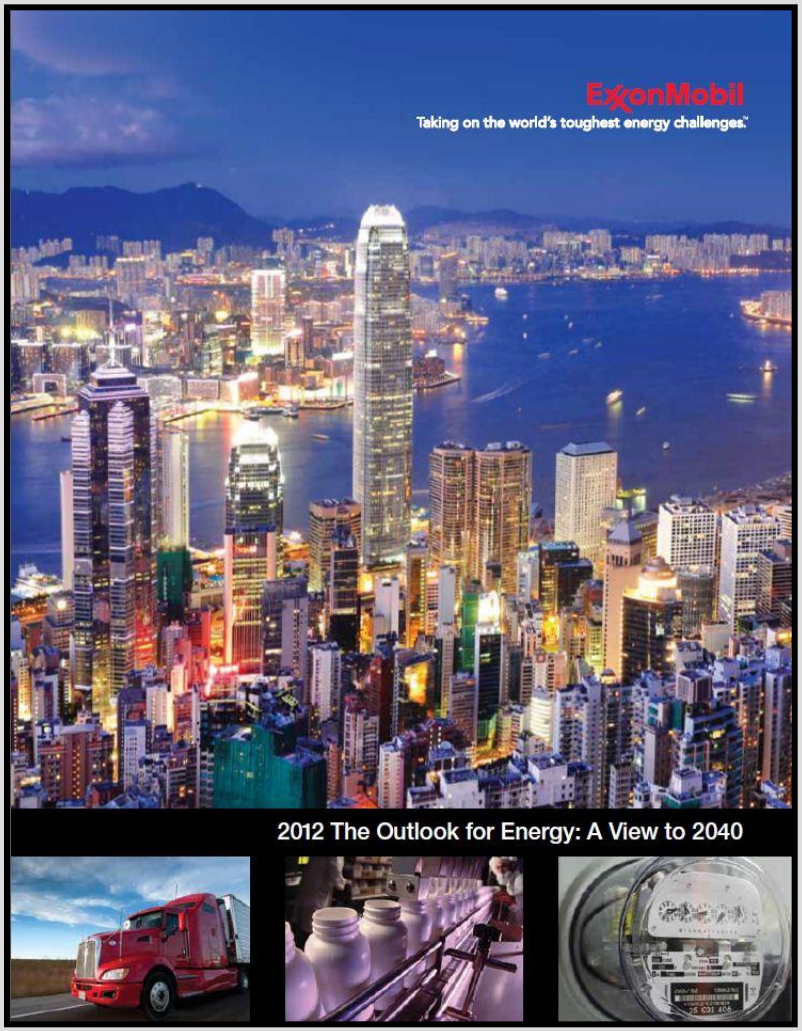
Regional Energy Trends Evolve



Conclusions



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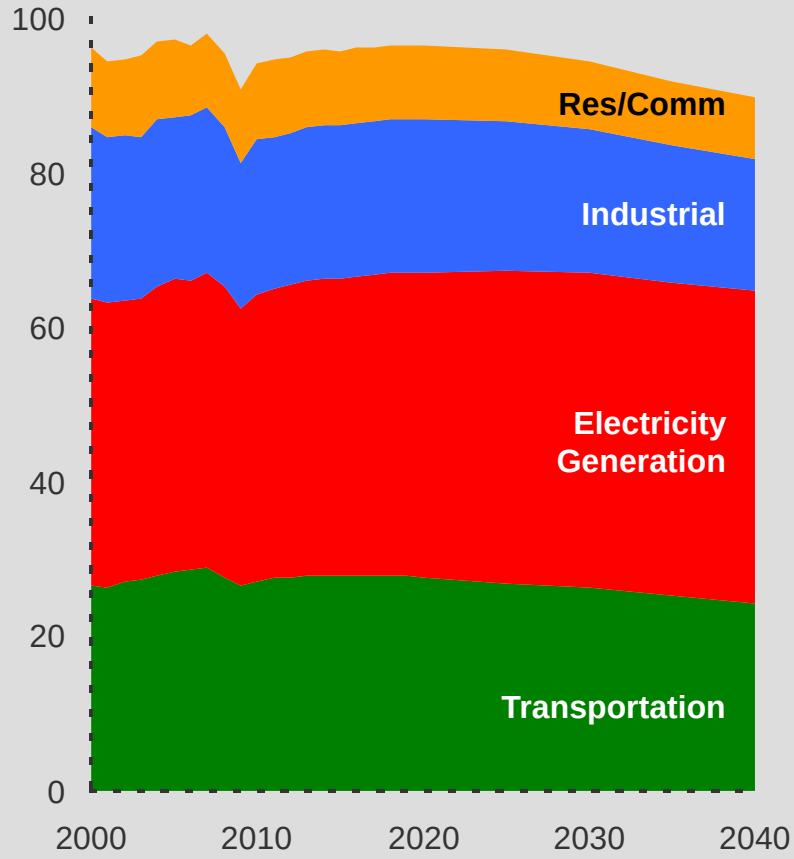
US Energy Demand and Supply

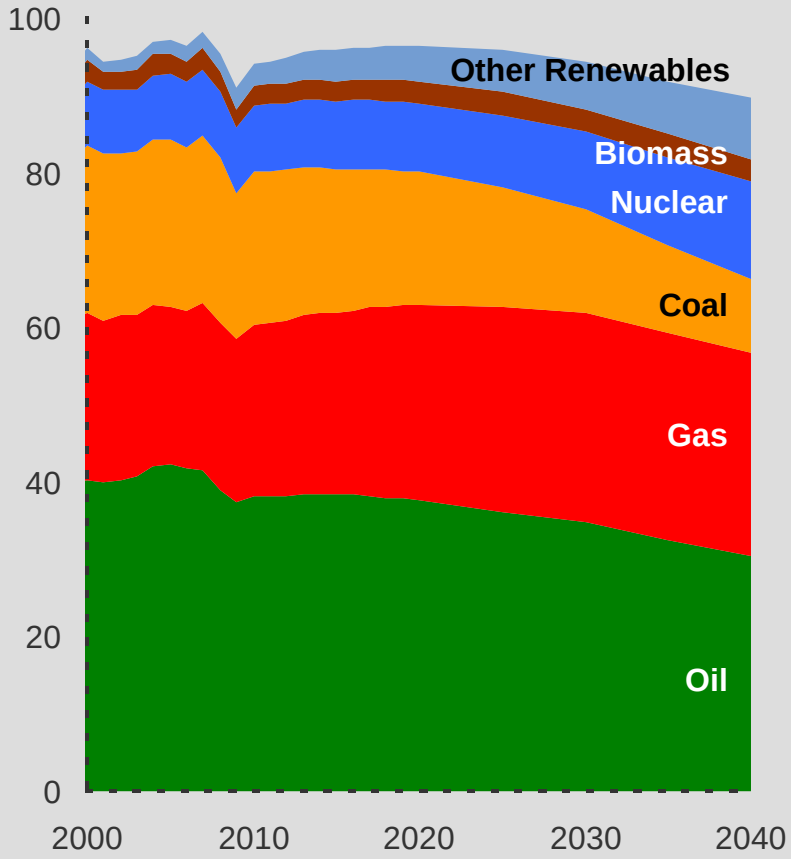
By Sector

Quadrillion BTUs



By Fuel

Quadrillion BTUs



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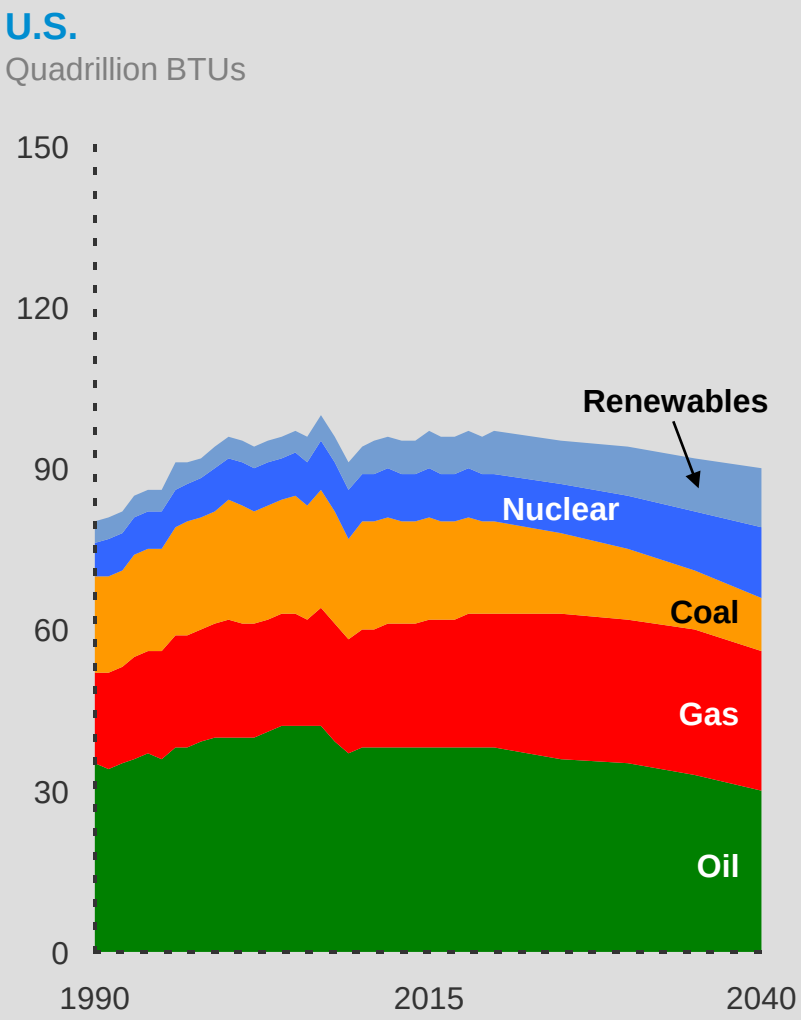
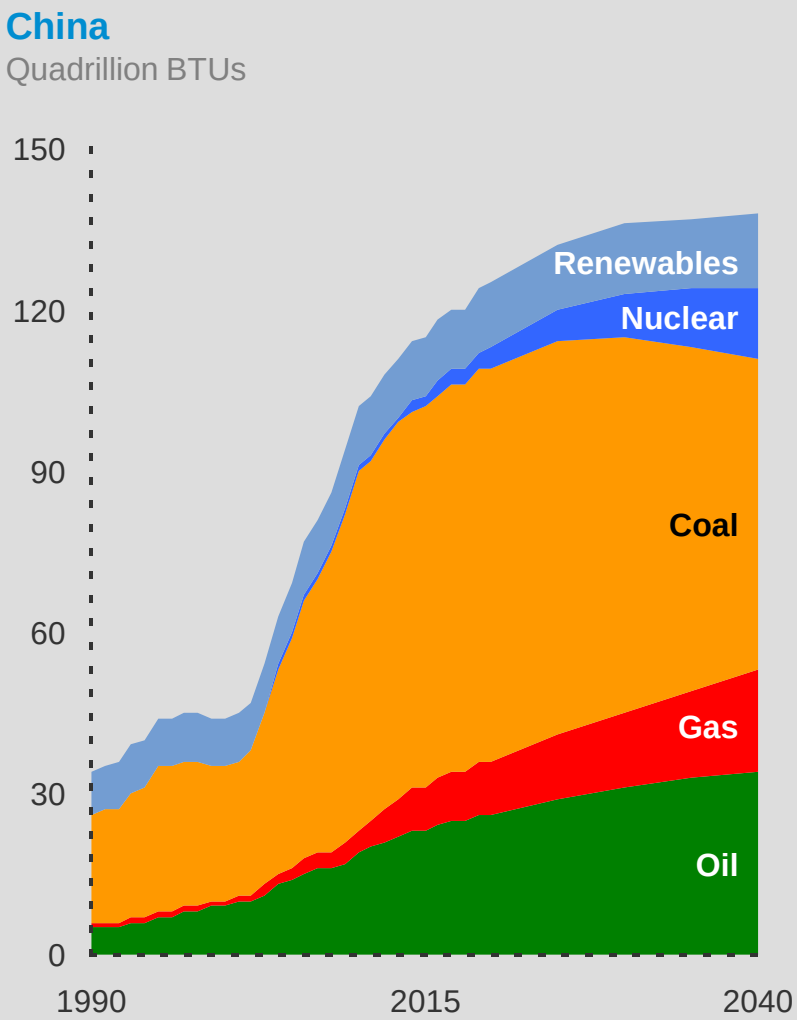
Fuel Demand Differs Between U.S. & China





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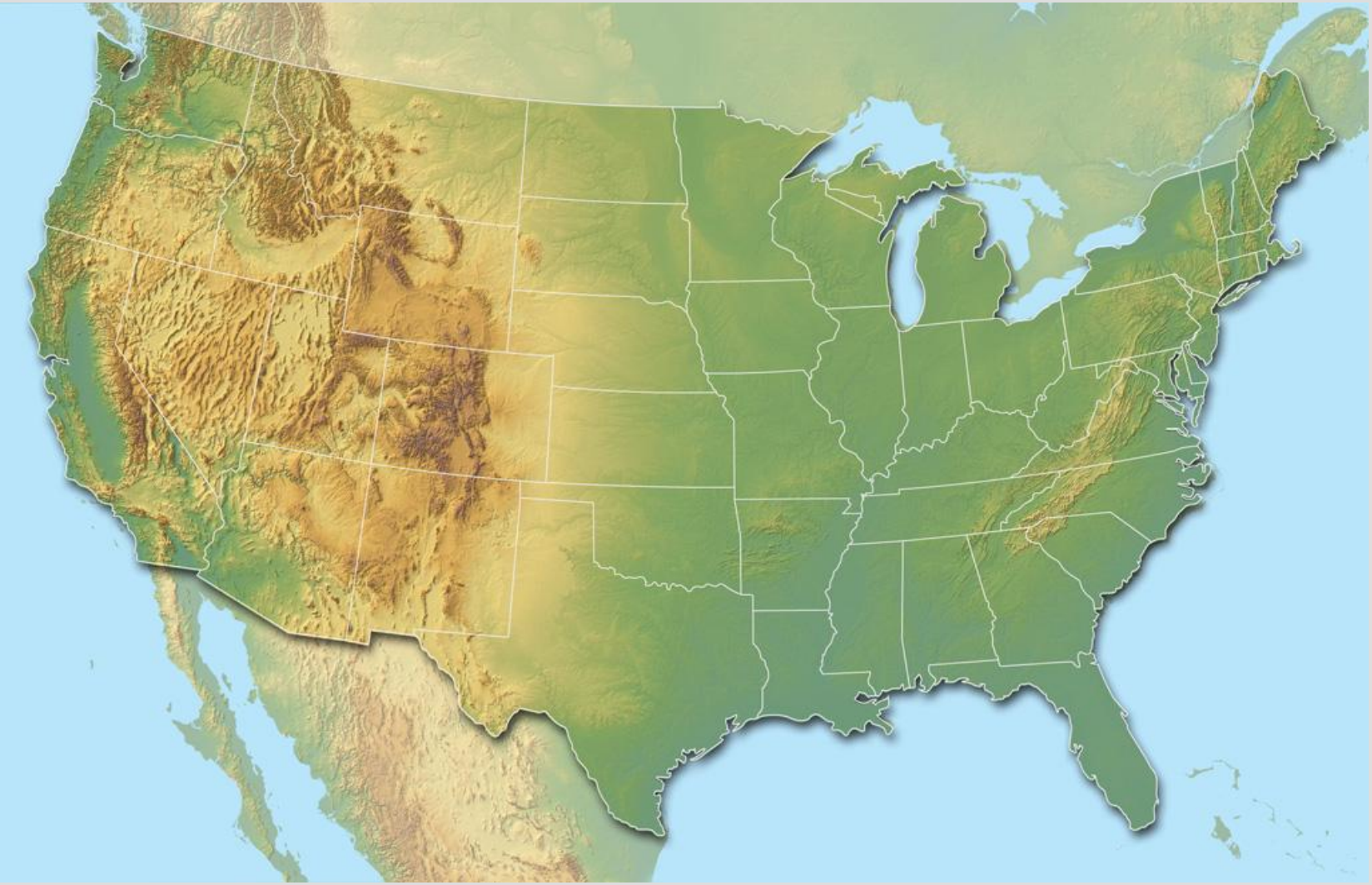
ExxonMobil 2012 Outlook for Energy

ExxonMobil / XTO Energy Portfolio



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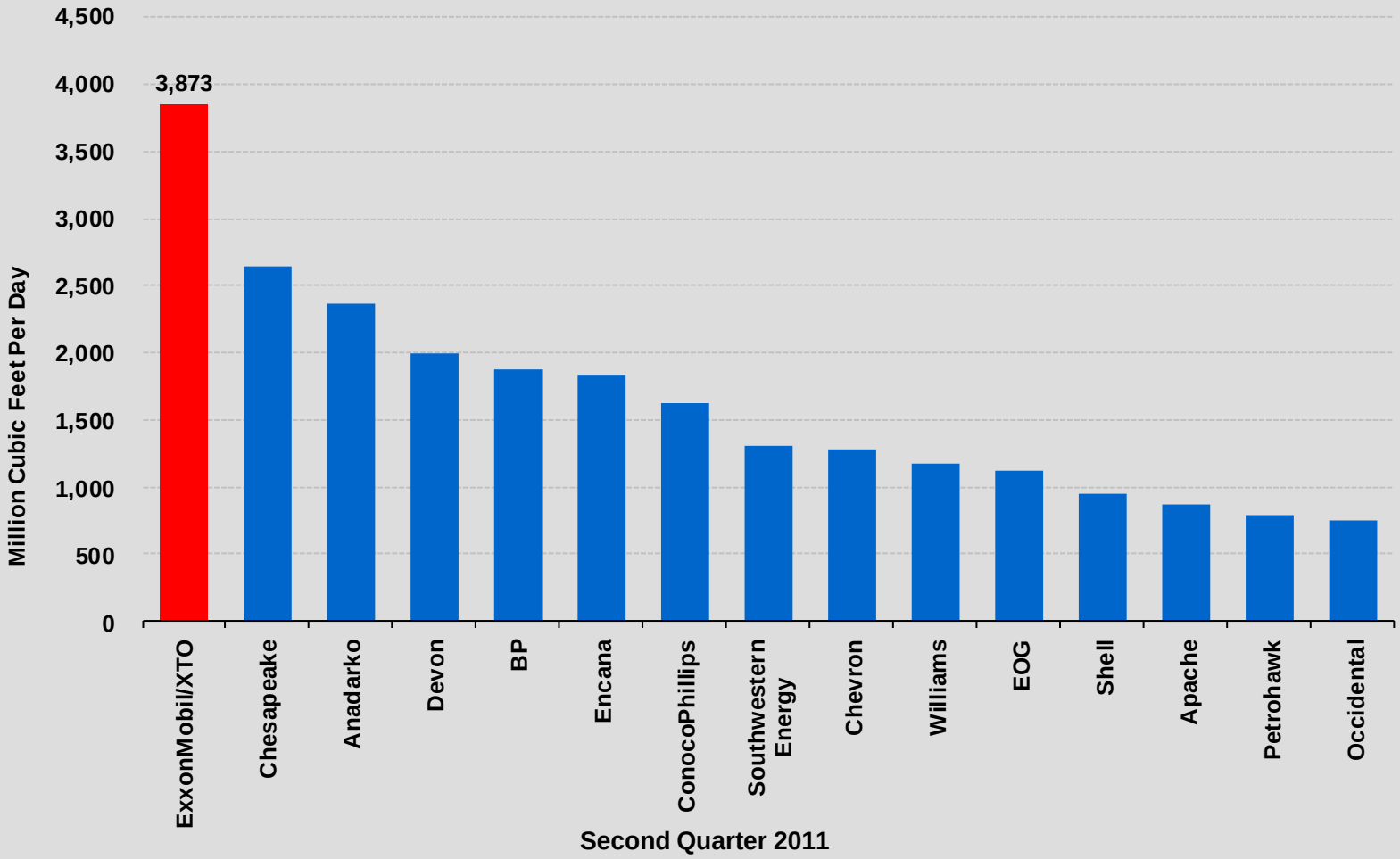
Top 15 U.S. Natural Gas Producers



Source: Natural Gas Supply Association

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