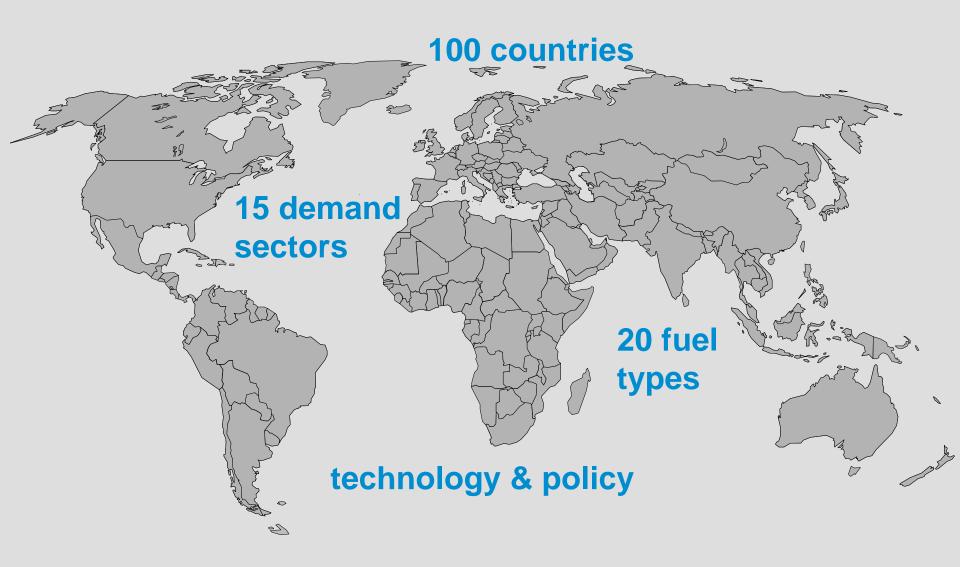
## The Outlook for Energy: A View to 2040

Todd Onderdonk Rail Energy Transportation Advisory Committee March 1, 2012

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.



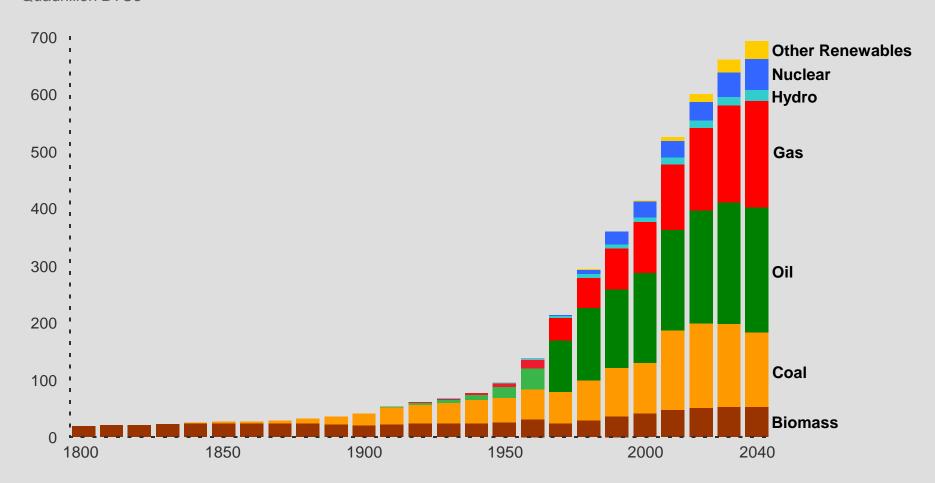
### **Energy Outlook Model**



#### **Economic and Energy Evolution**

#### **Global Demand By Fuel**

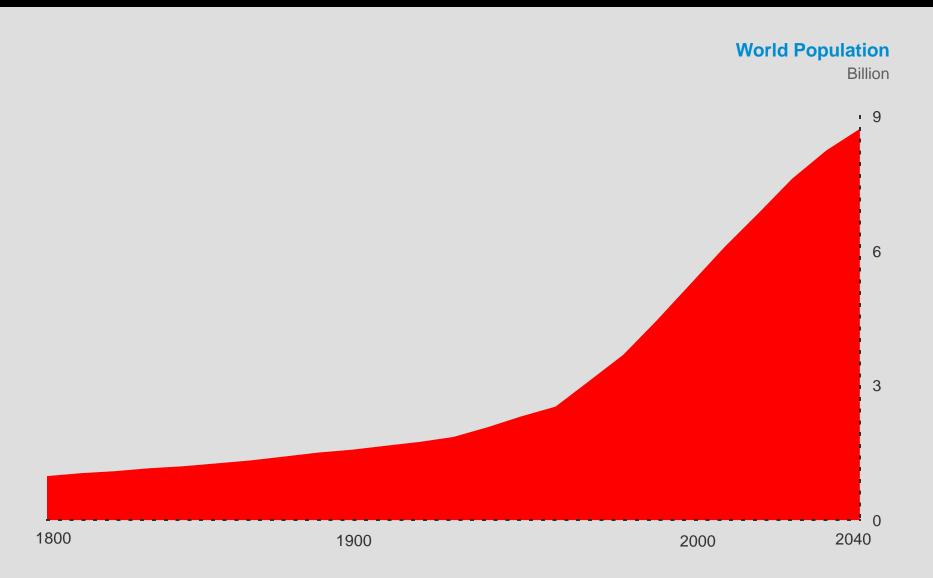
**Quadrillion BTUs** 





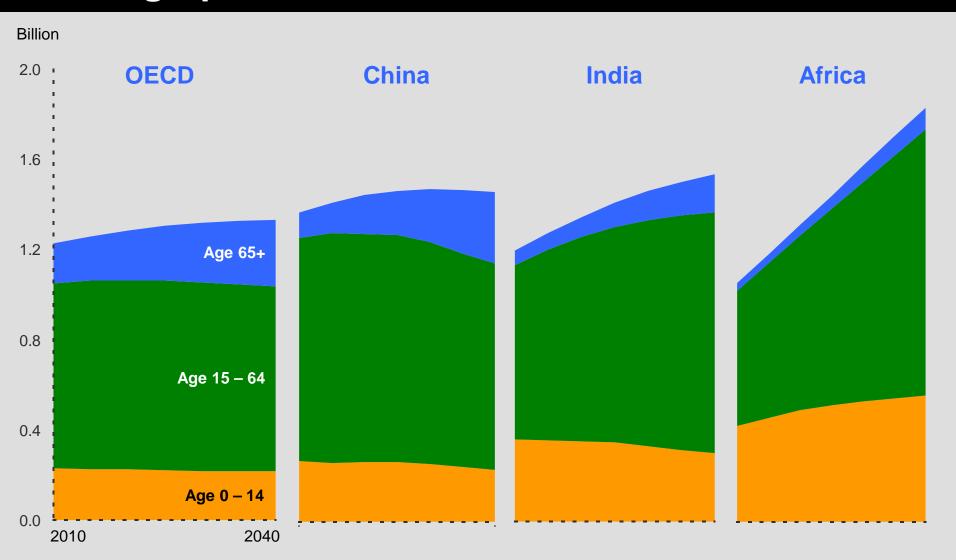
Source: Smil, Energy Transitions (1800-1960)

#### **Population Growth Drives Energy Demand**



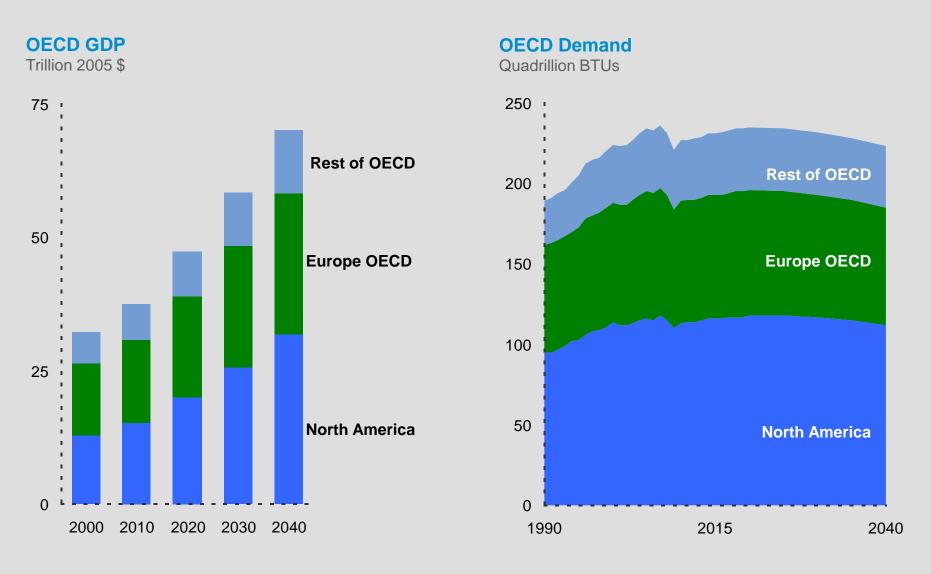


#### **Demographic Shifts Alter Demand Profile**



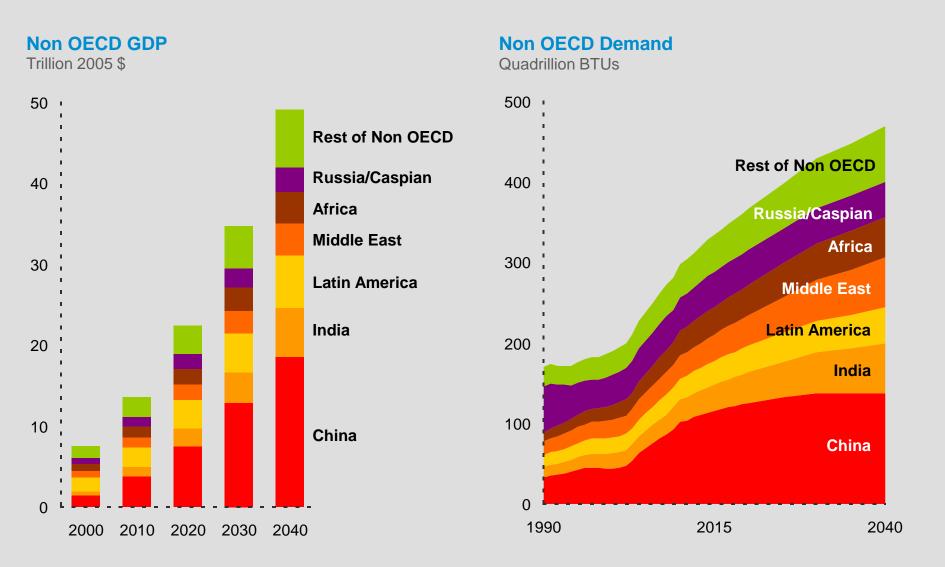


#### **OECD Efficiency Moderates Demand**



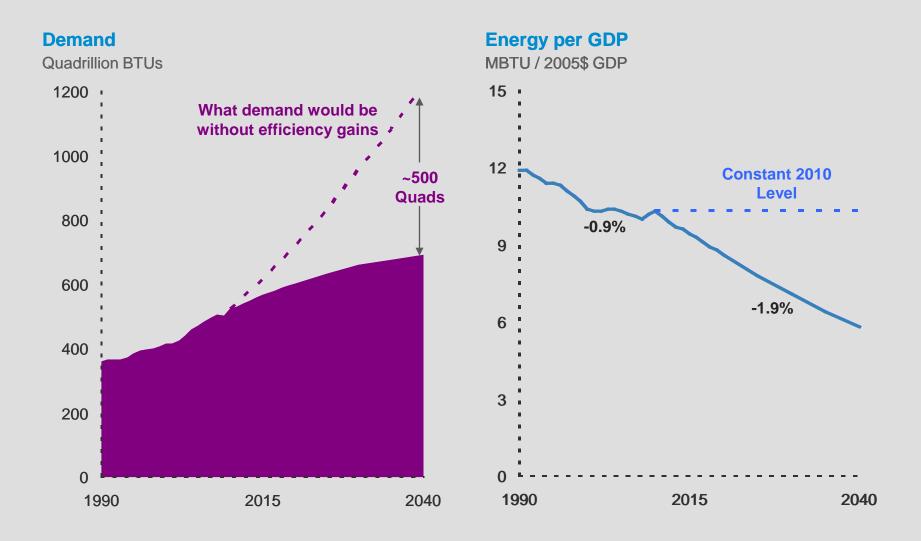


#### Rapidly Expanding Economies Drive Demand



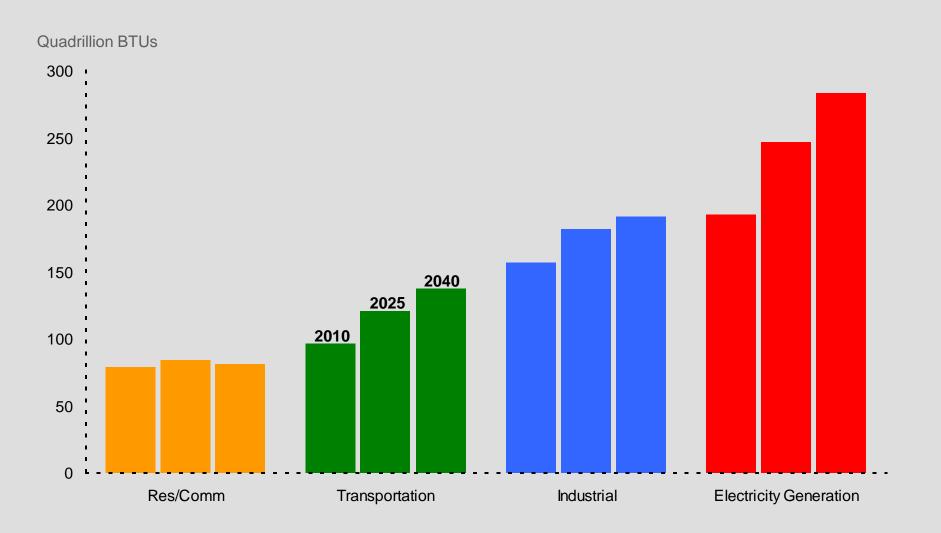


#### Global Efficiency Minimizes Demand Growth

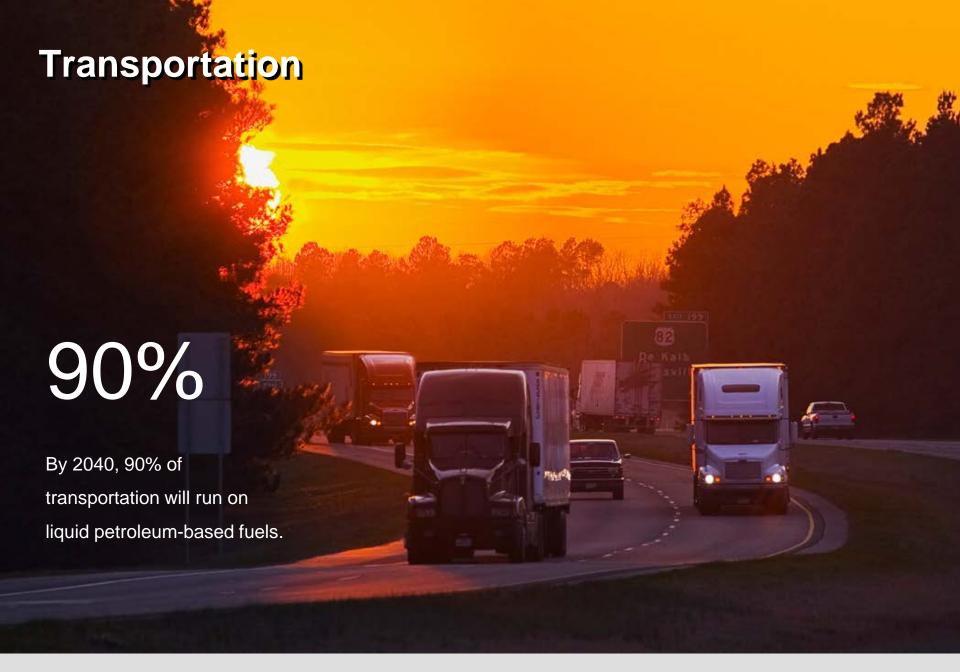




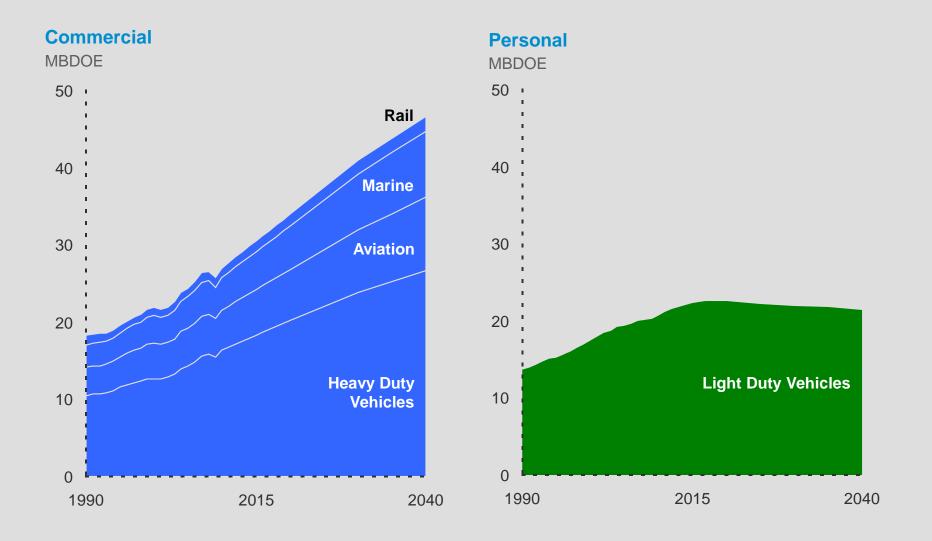
#### **Electricity Generation Leads Growth**





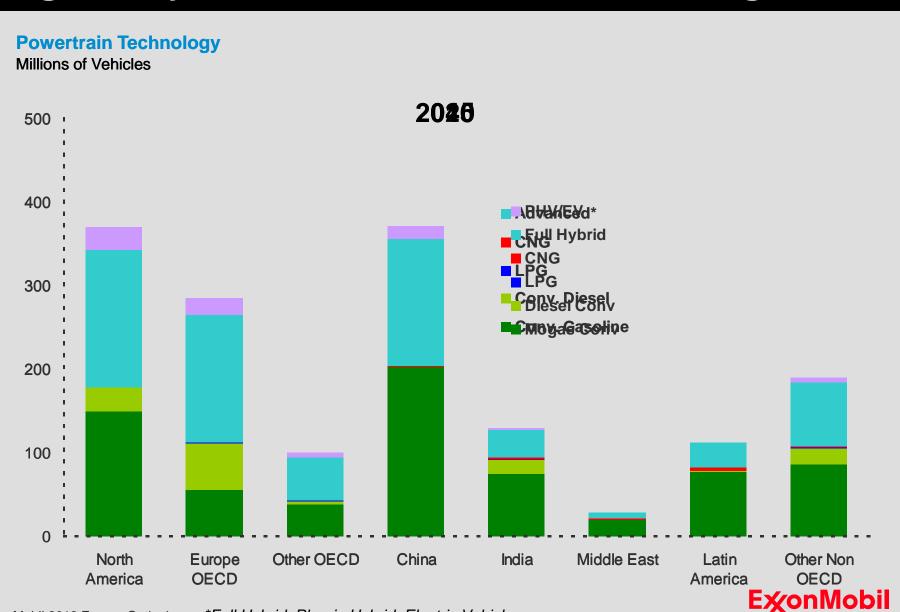


#### **Commercial Transportation Drives Demand Growth**





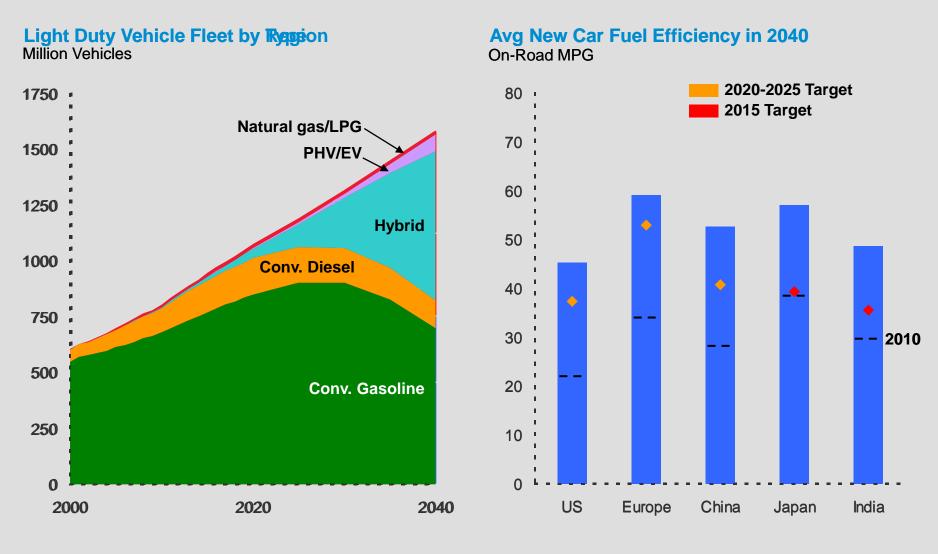
#### **Light Duty Vehicle Fleet Grows, Mix Changes**



\*Full Hybrid, Plug-in Hybrid, Electric Vehicles

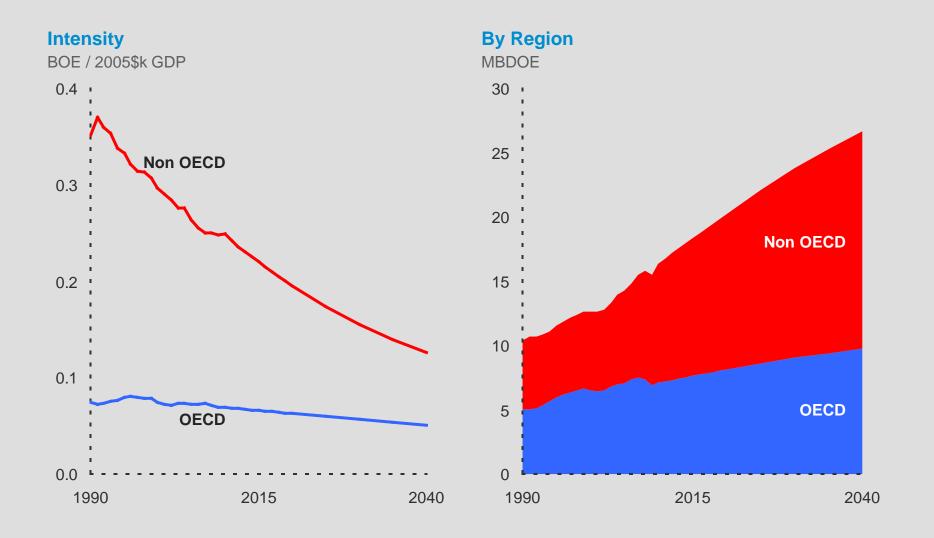
ExxonMobil 2012 Energy Outlook

#### Impact of Global Fleet Shift on Efficiency



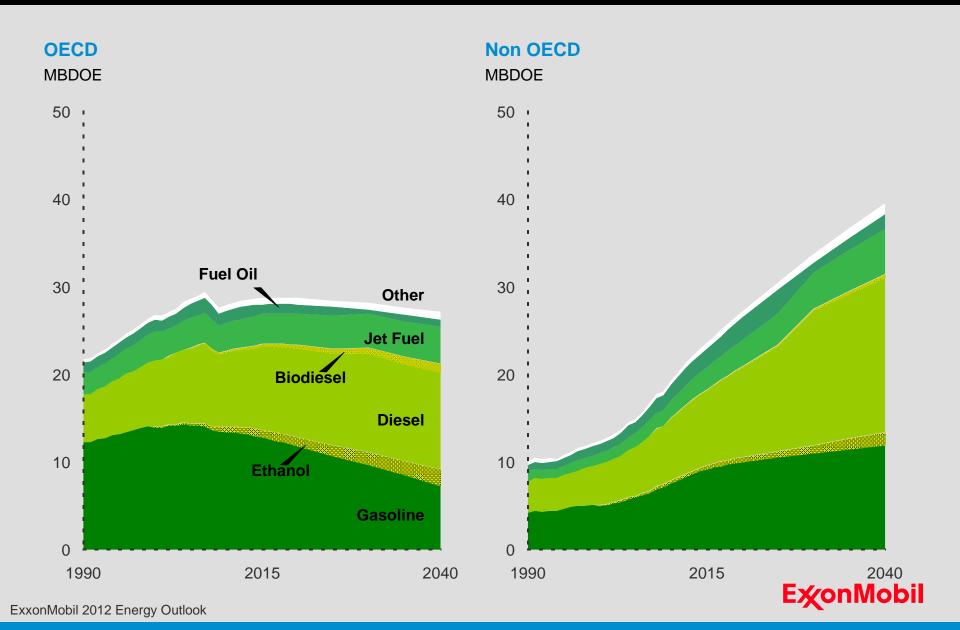


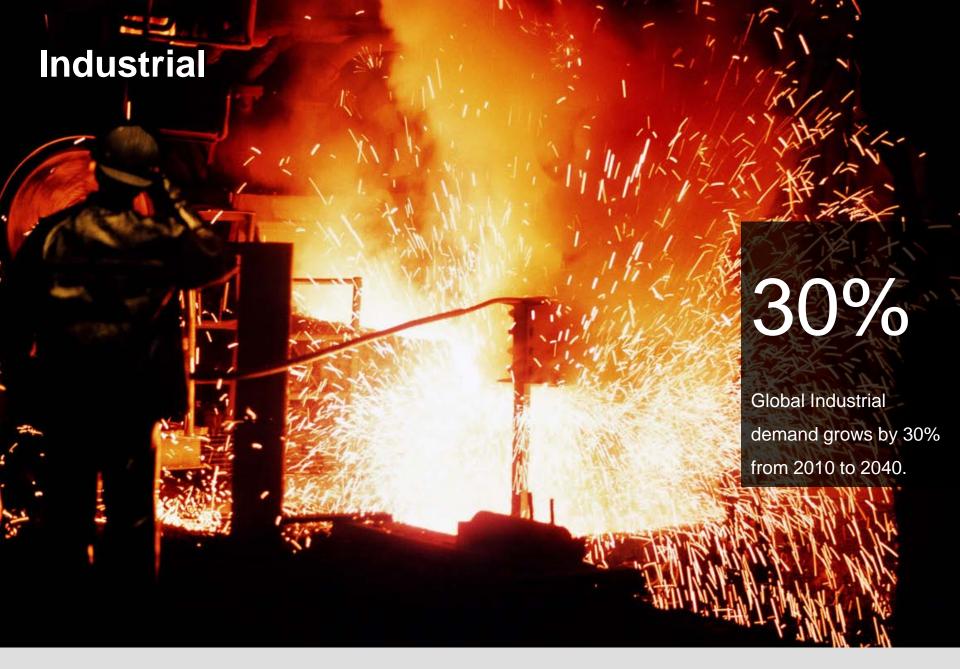
#### **Heavy Duty Efficiency Tempers Growth**



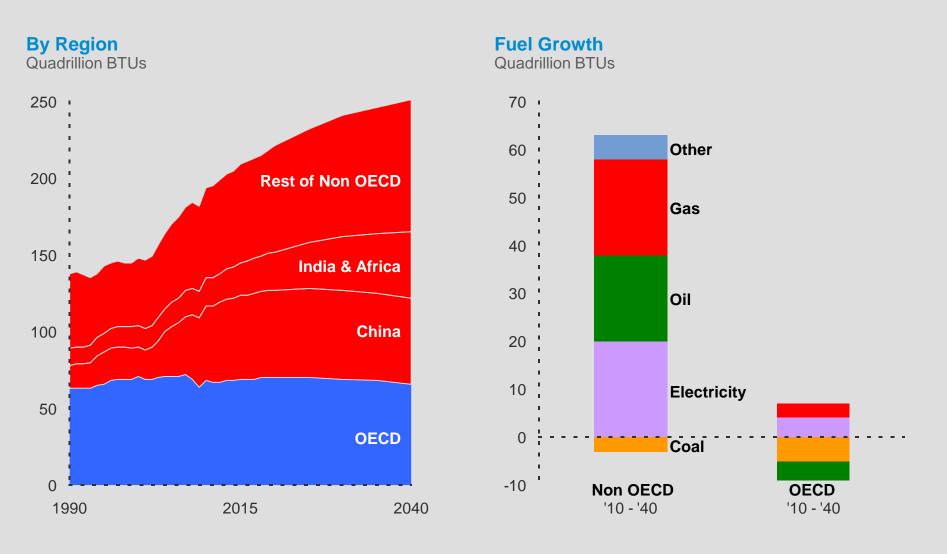


#### Transportation Fuel Demand Shifts to Diesel

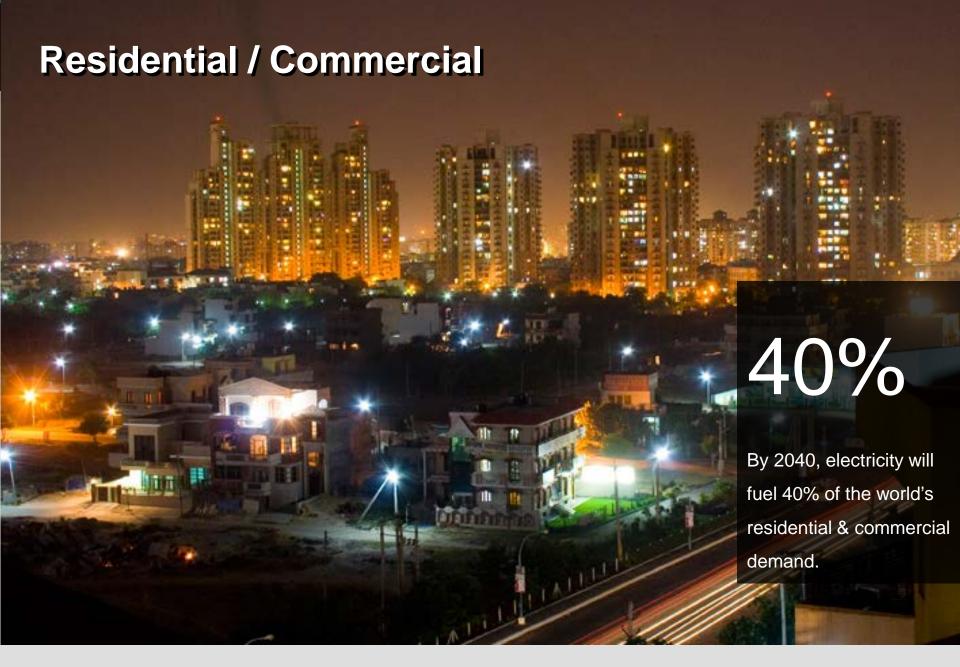




#### **Industrial Fuel Demand Diversifies**

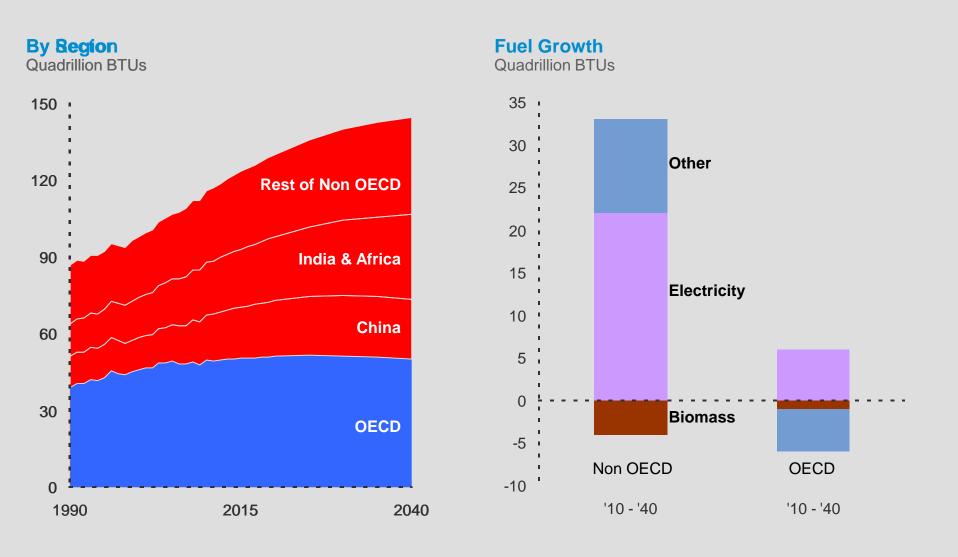








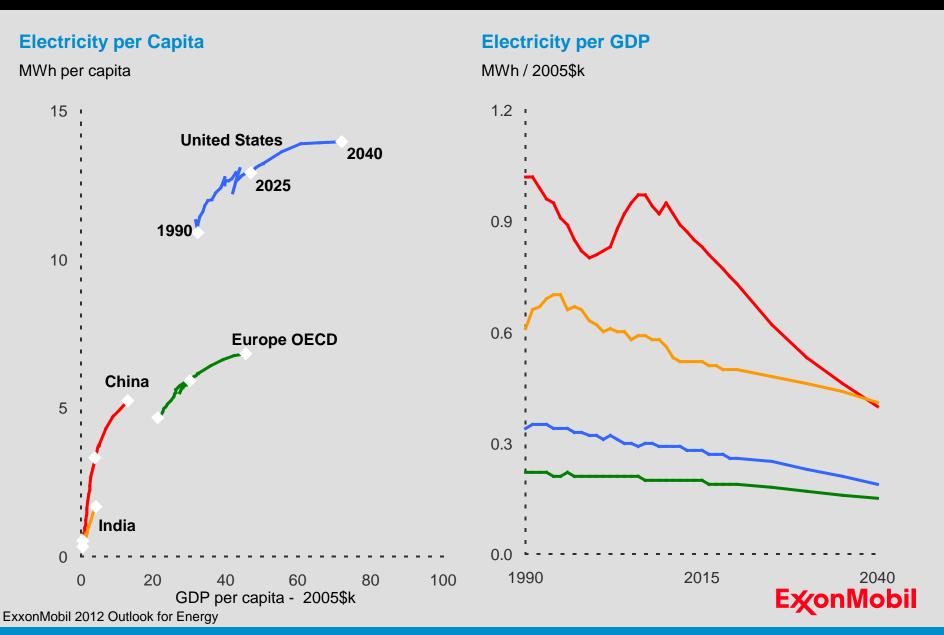
#### **Residential/Commercial Demand Grows**



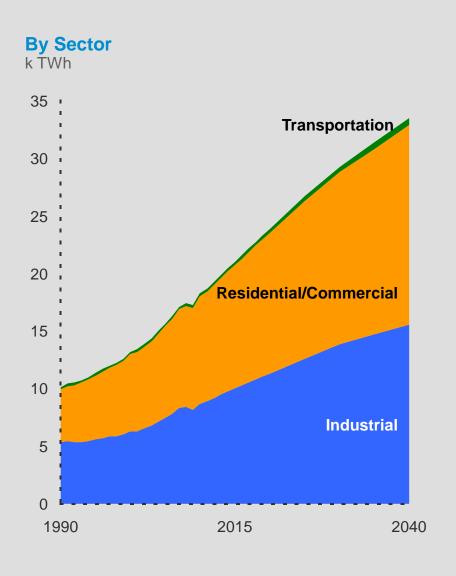




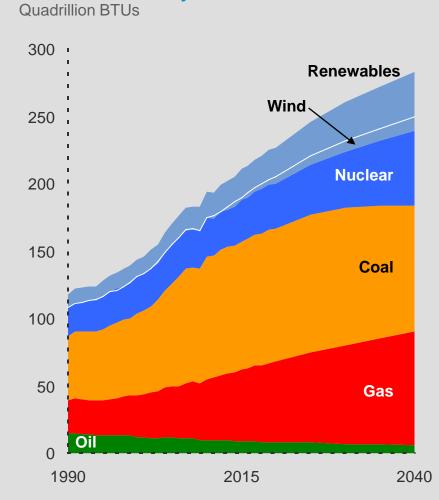
#### **Electricity Consumption**



#### **Electricity Demand Continues to Surge**

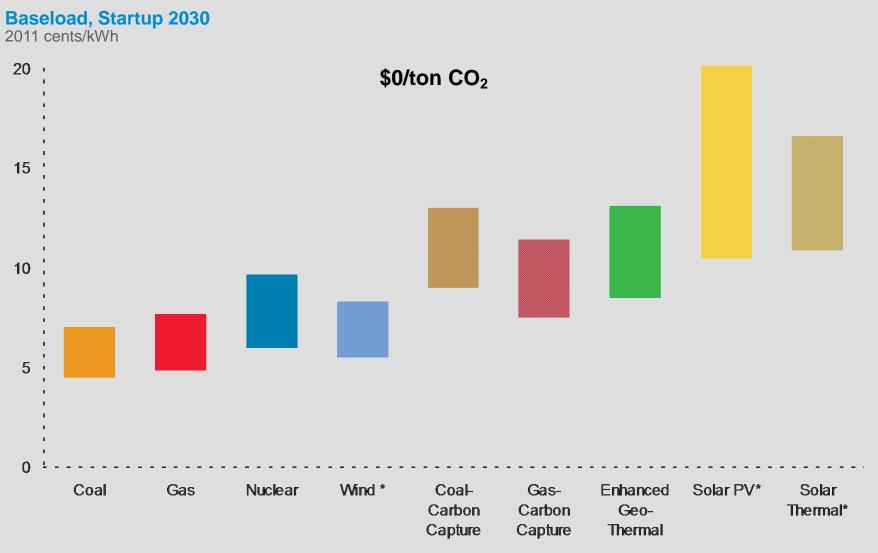


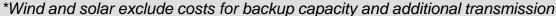






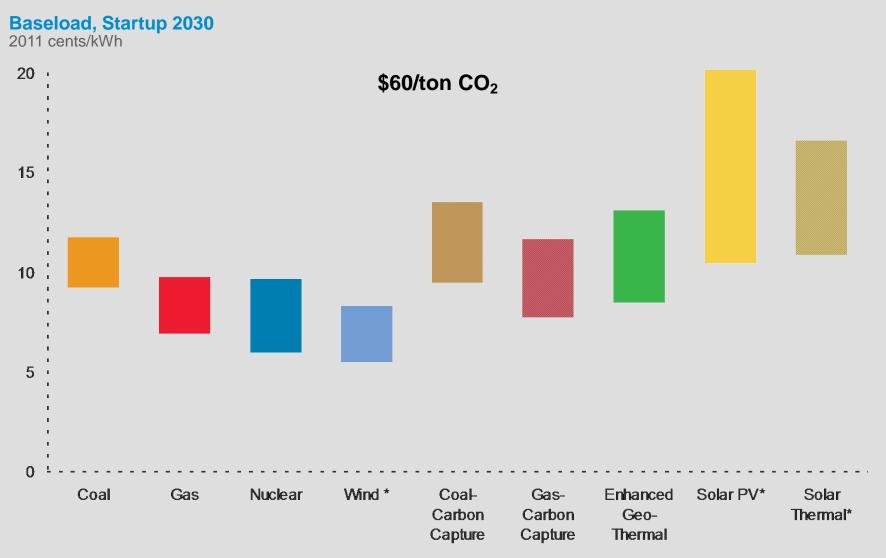
#### **Economic Choices for U.S. Electricity**

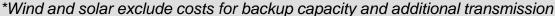






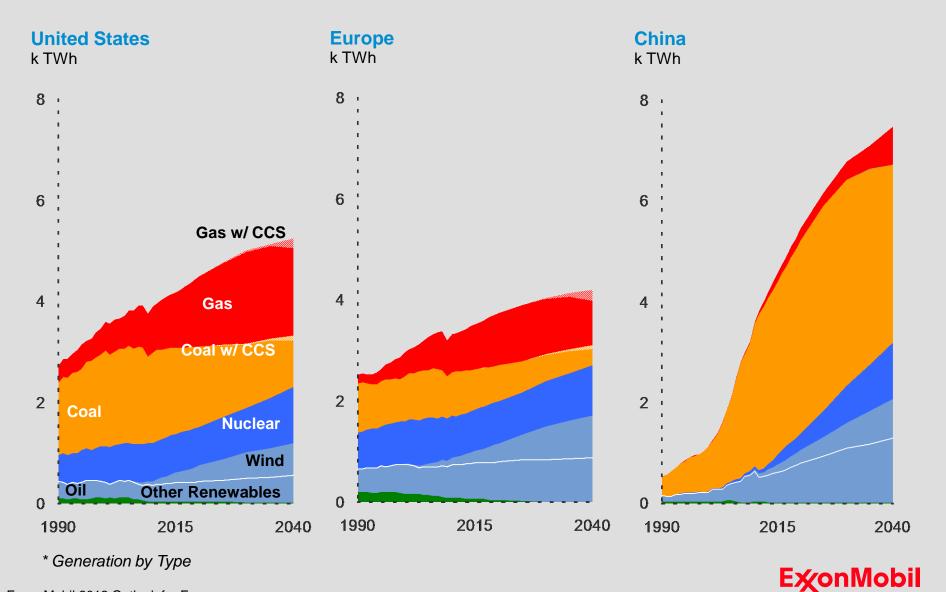
#### **Economic Choices for U.S. Electricity**



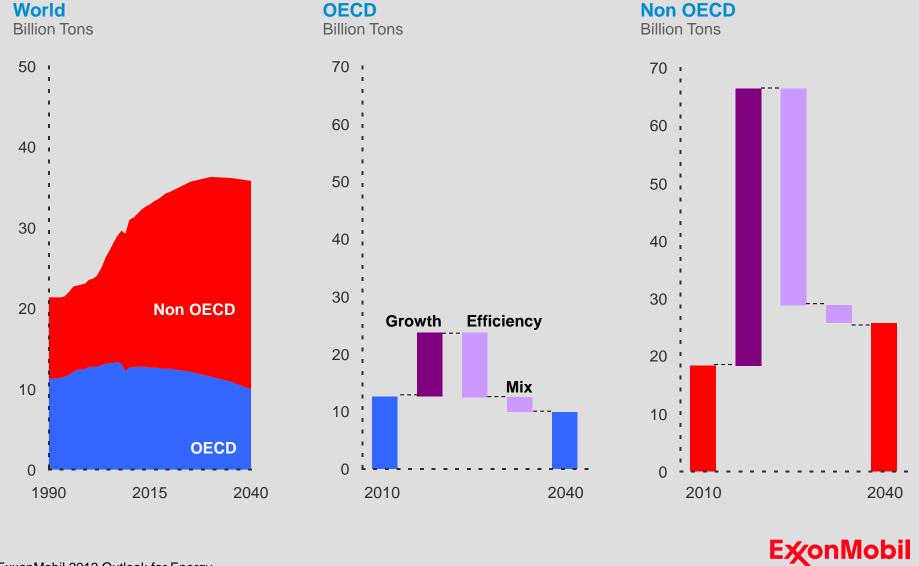




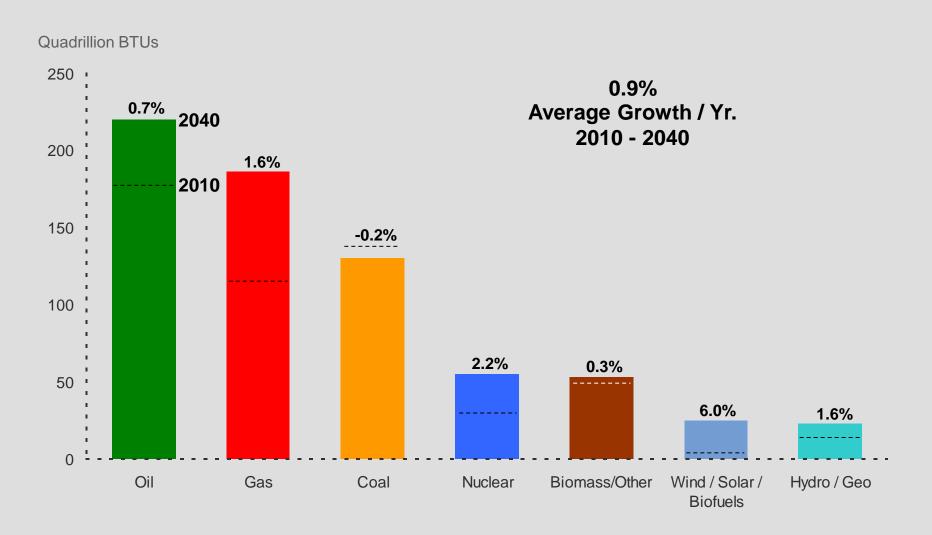
#### **Electricity Supply Varies Globally**



#### **CO<sub>2</sub> Emissions Moderate**



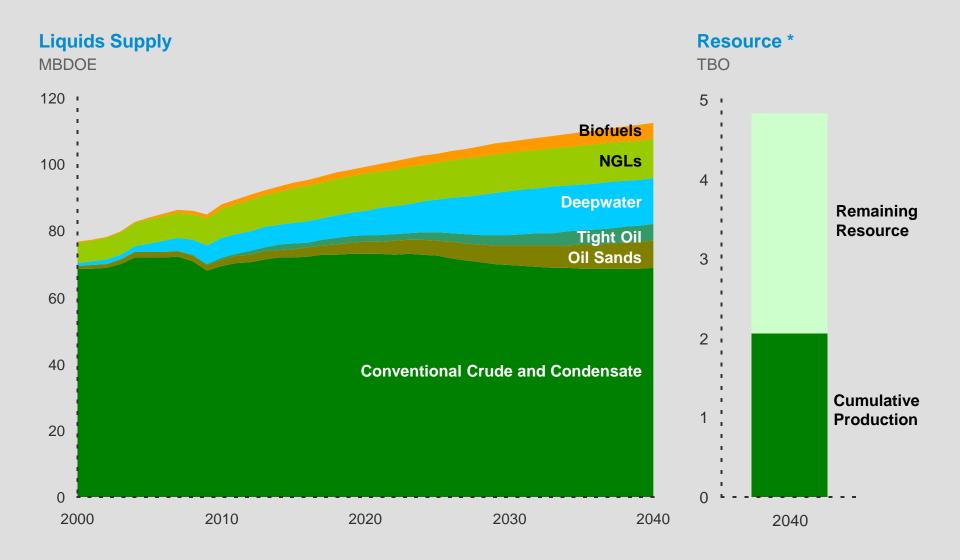
#### **Energy Mix Continues to Evolve**





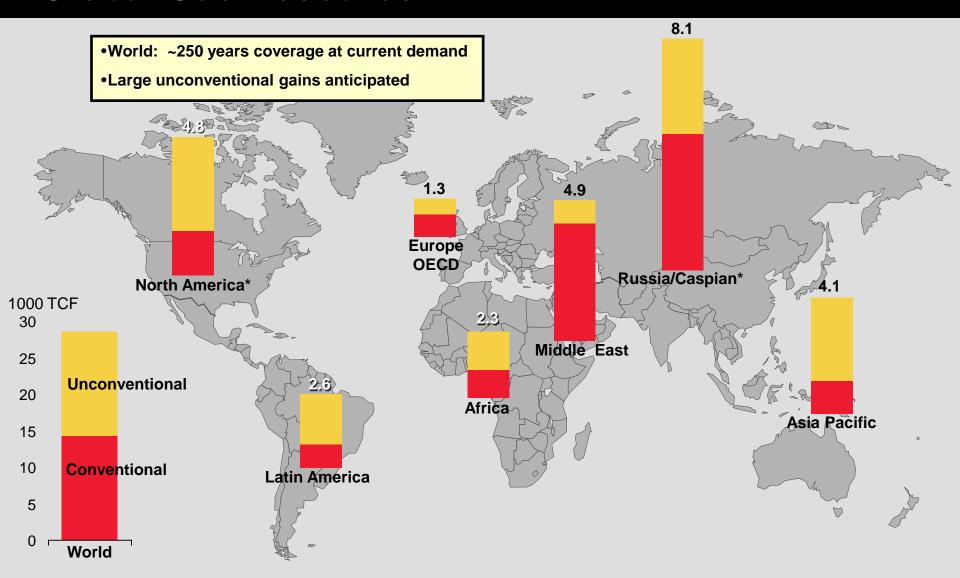


## Liquids Supply Continues to Diversify





#### **Global Gas Resource**

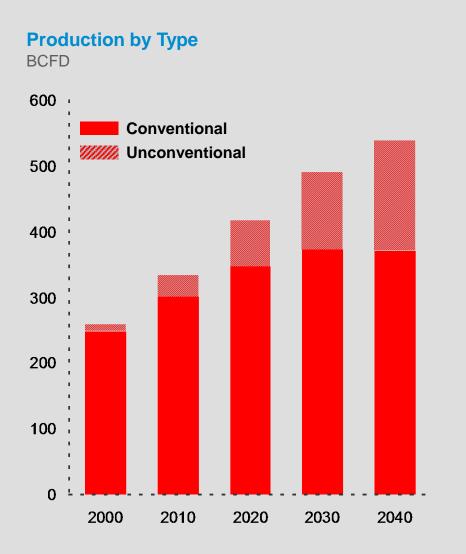


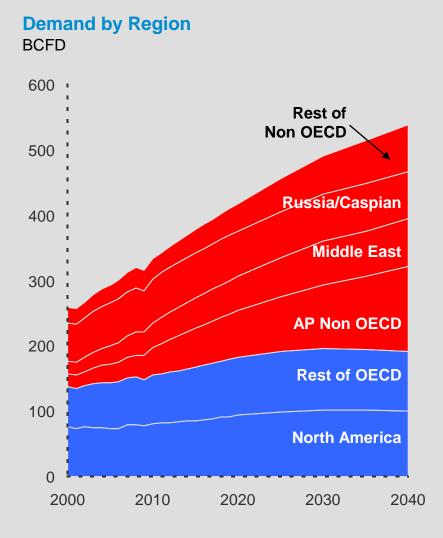
Source: IEA; \* Includes Europe Non OECD

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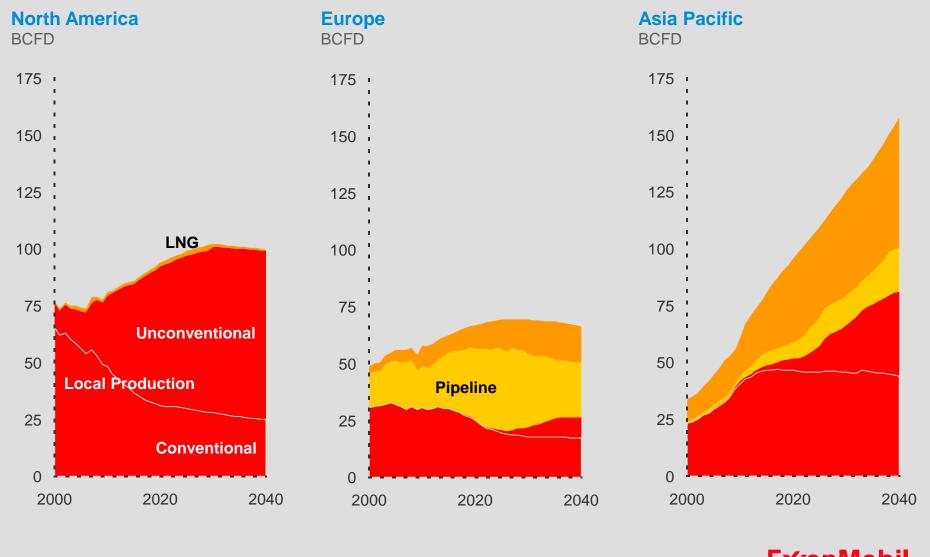
#### **Unconventional Gas Contribution Increases**





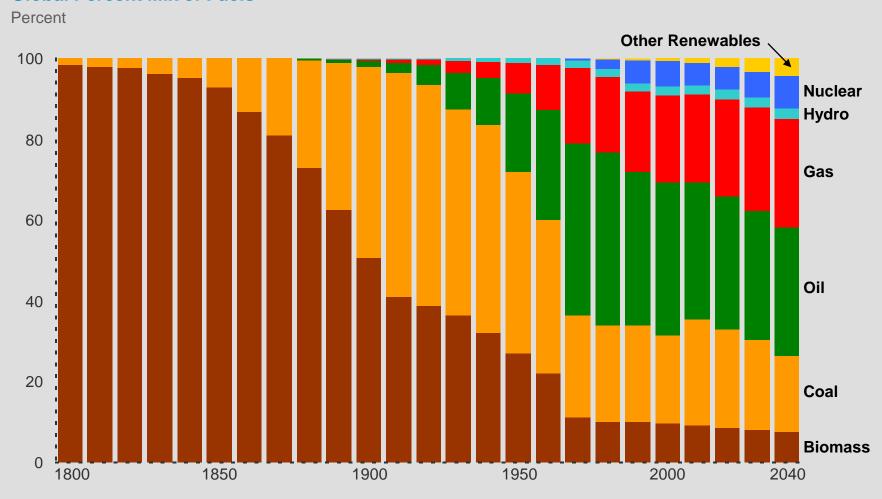


#### Gas Supply Grows and Diversifies



#### **Energy Use Evolves Over Time**

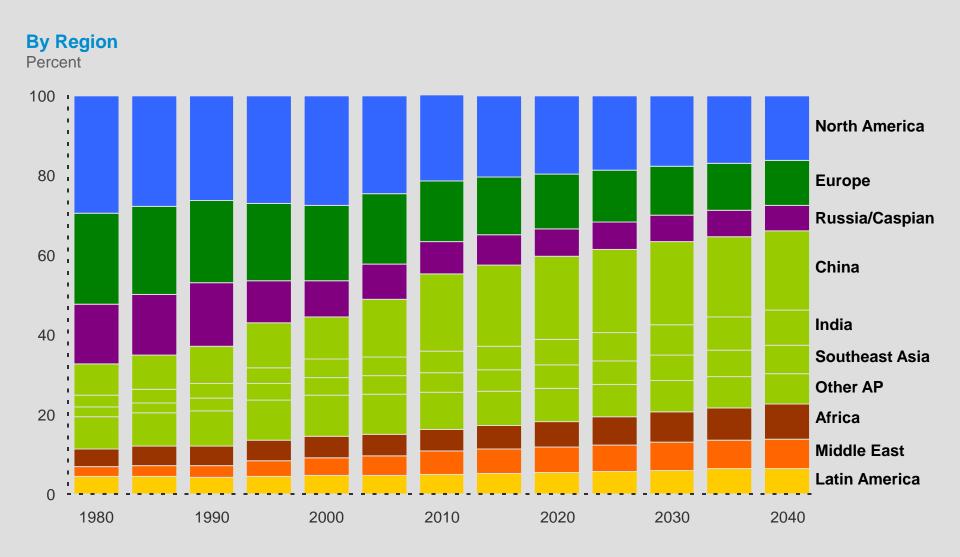
#### **Global Percent Mix of Fuels**





Source: Smil, Energy Transitions (1800-1960)

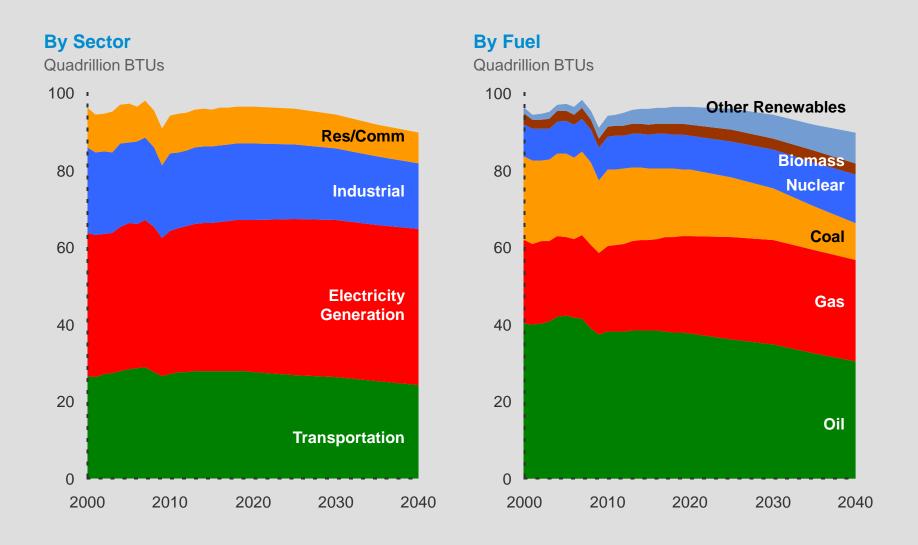
#### **Regional Energy Trends Evolve**





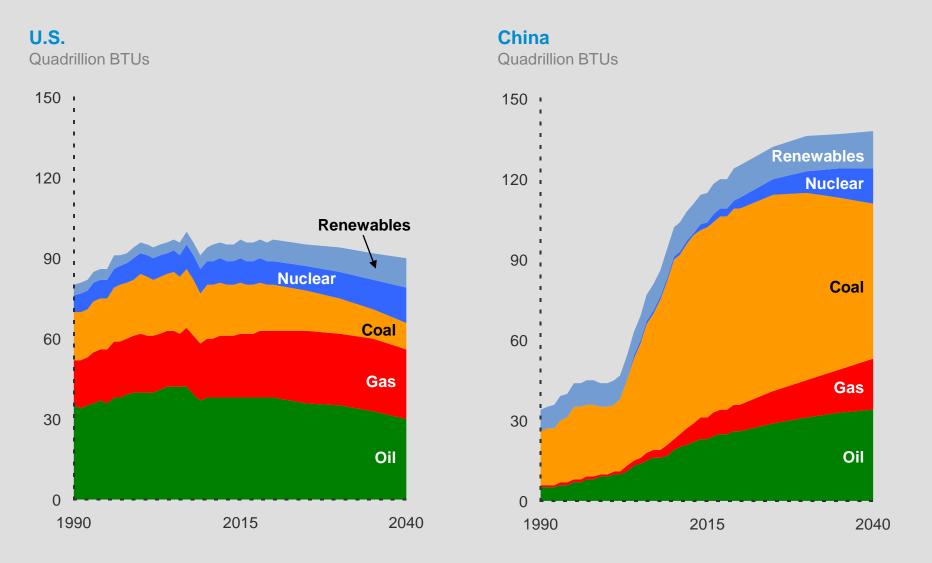
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#### **US Energy Demand and Supply**



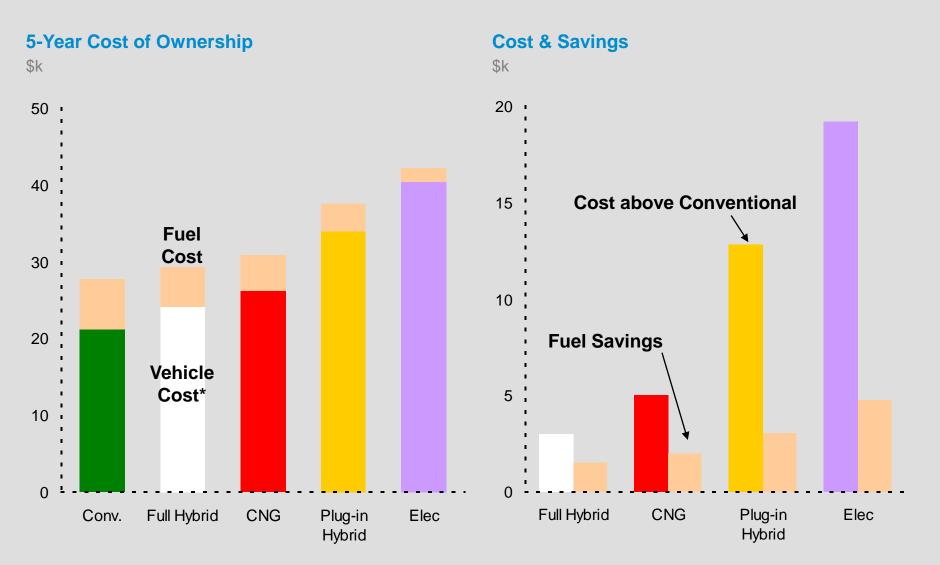


#### Fuel Demand Differs Between U.S. & China





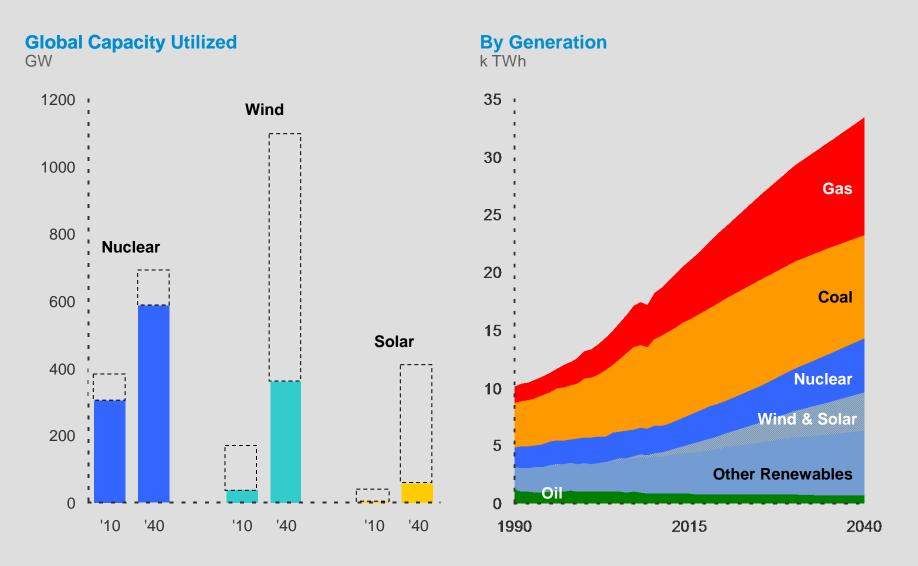
#### **Today's Vehicle Technology Choices**



<sup>\*</sup>Excludes Maintenance and Insurance



#### Global Electricity Generation Mix Evolves





#### Renewables Gain Share

