

2017 Outlook for Energy: A View to 2040

National Industrial Transportation League
William Landuyt

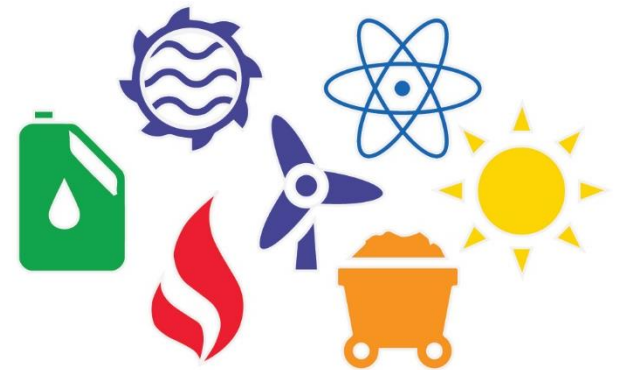
Feb 1, 2017

The Outlook for Energy includes Exxon Mobil Corporation's internal estimates and forecasts of energy demand, supply, and trends through 2040 based upon internal data and analyses as well as publicly available information from external sources including the International Energy Agency. **Work on the report was conducted throughout 2016.** This presentation includes forward looking statements. Actual future conditions and results (including energy demand, energy supply, the relative mix of energy across sources, economic sectors and geographic regions, imports and exports of energy) could differ materially due to changes in economic conditions, 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. This material is not to be used or reproduced without the permission of Exxon Mobil Corporation. All rights reserved.

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The energy equation

People \times living standards = energy needs



Global Trends Continue to Evolve

Growth from 2015 Level

Percent

100%

75%

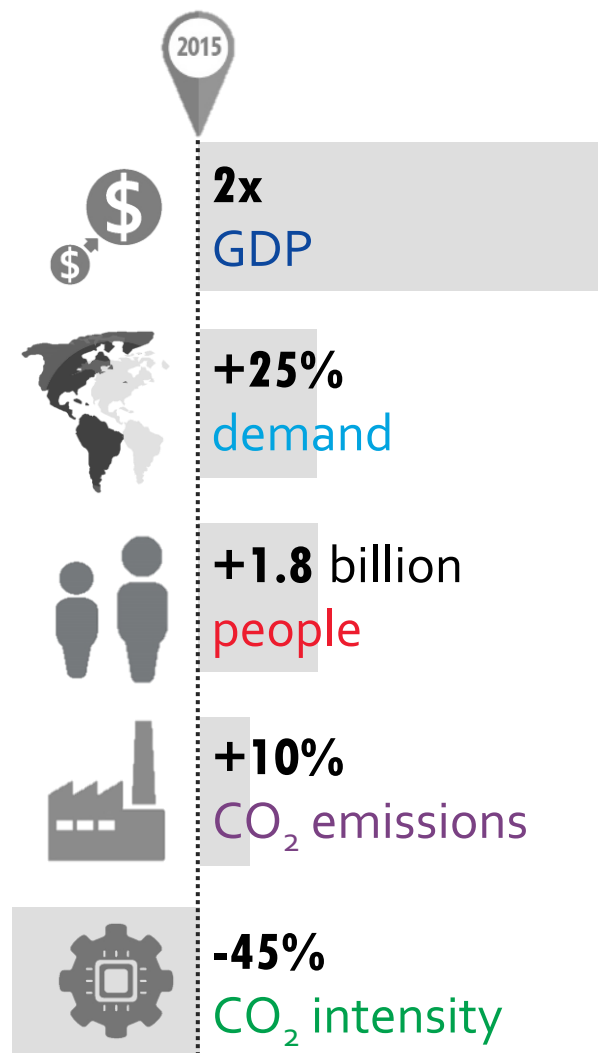
50%

25%

0%

2015

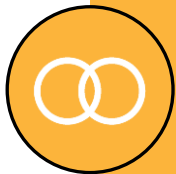
2040



Key Energy Outlook Themes



Energy is fundamental
to standards of living



Economics and policies
impact the energy mix



Natural gas grows more
than any other energy
source

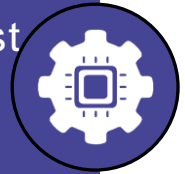
Developing nations lead
gains in GDP and living
standards



Oil remains the world's
primary fuel through 2040



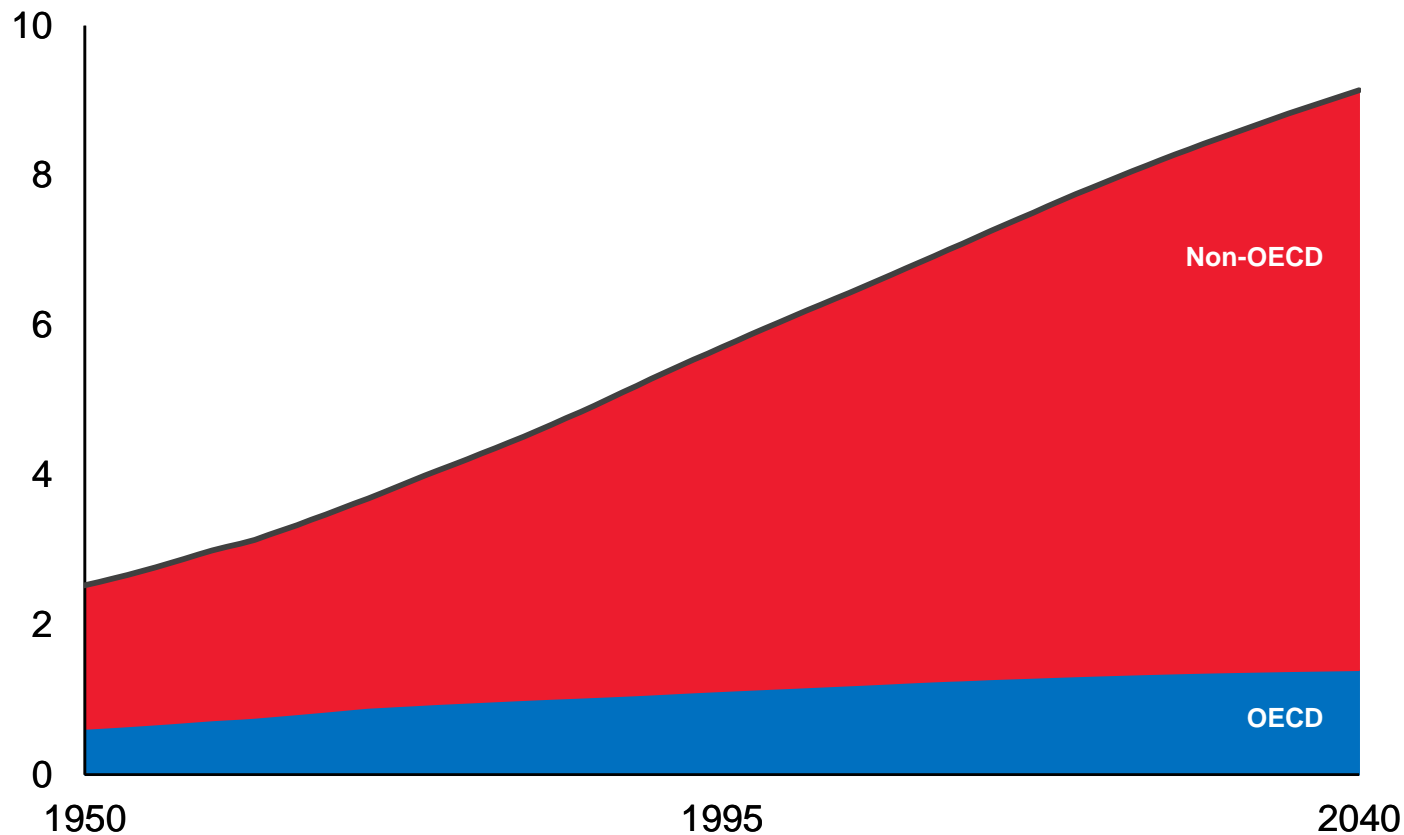
Technology has the highest
potential and greatest
uncertainty



Developing Nations Lead Population Growth

Global Population

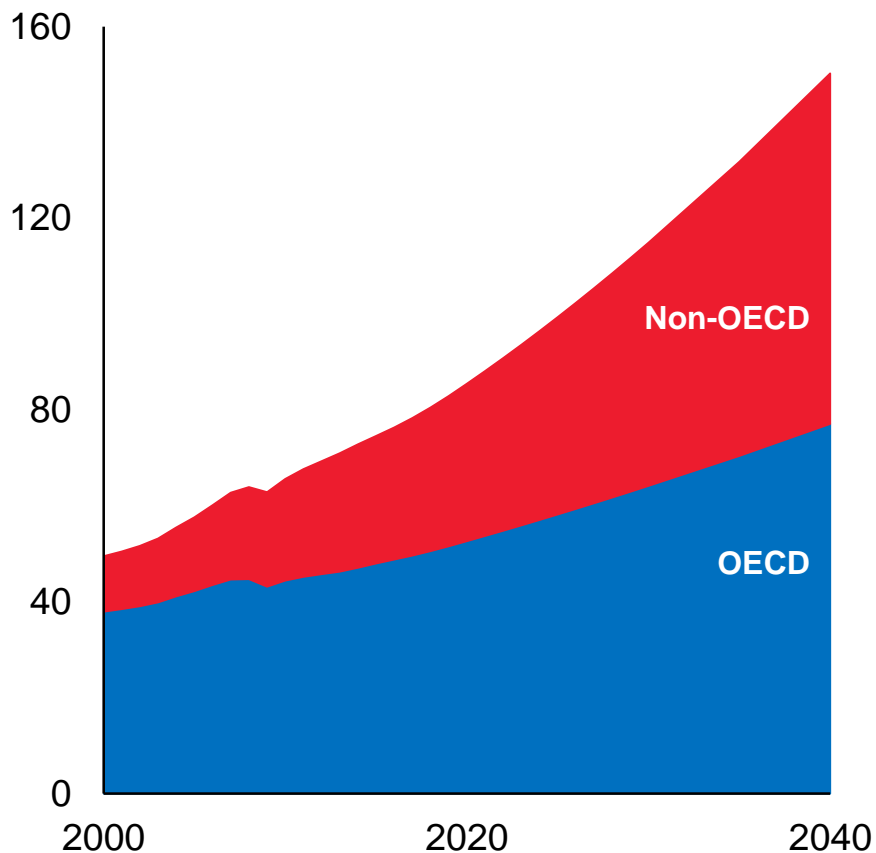
Billion People



Non-OECD Leads Economic Growth

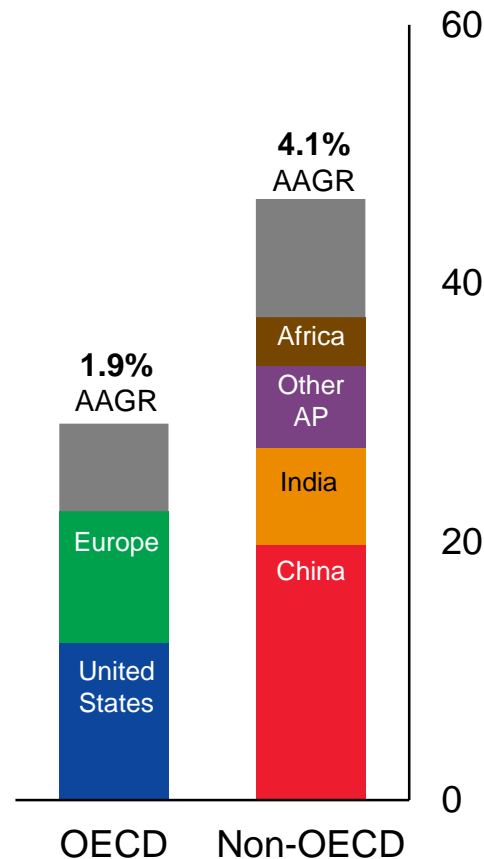
World GDP

Trillion 2010\$

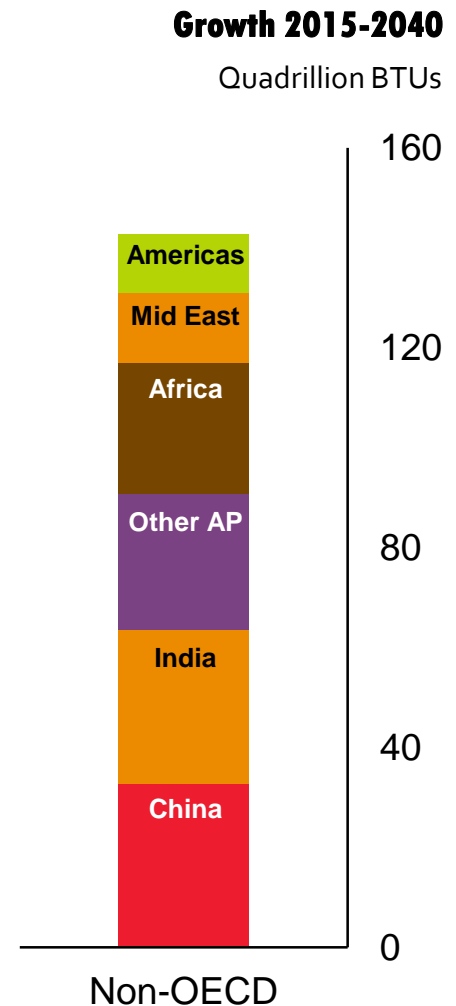
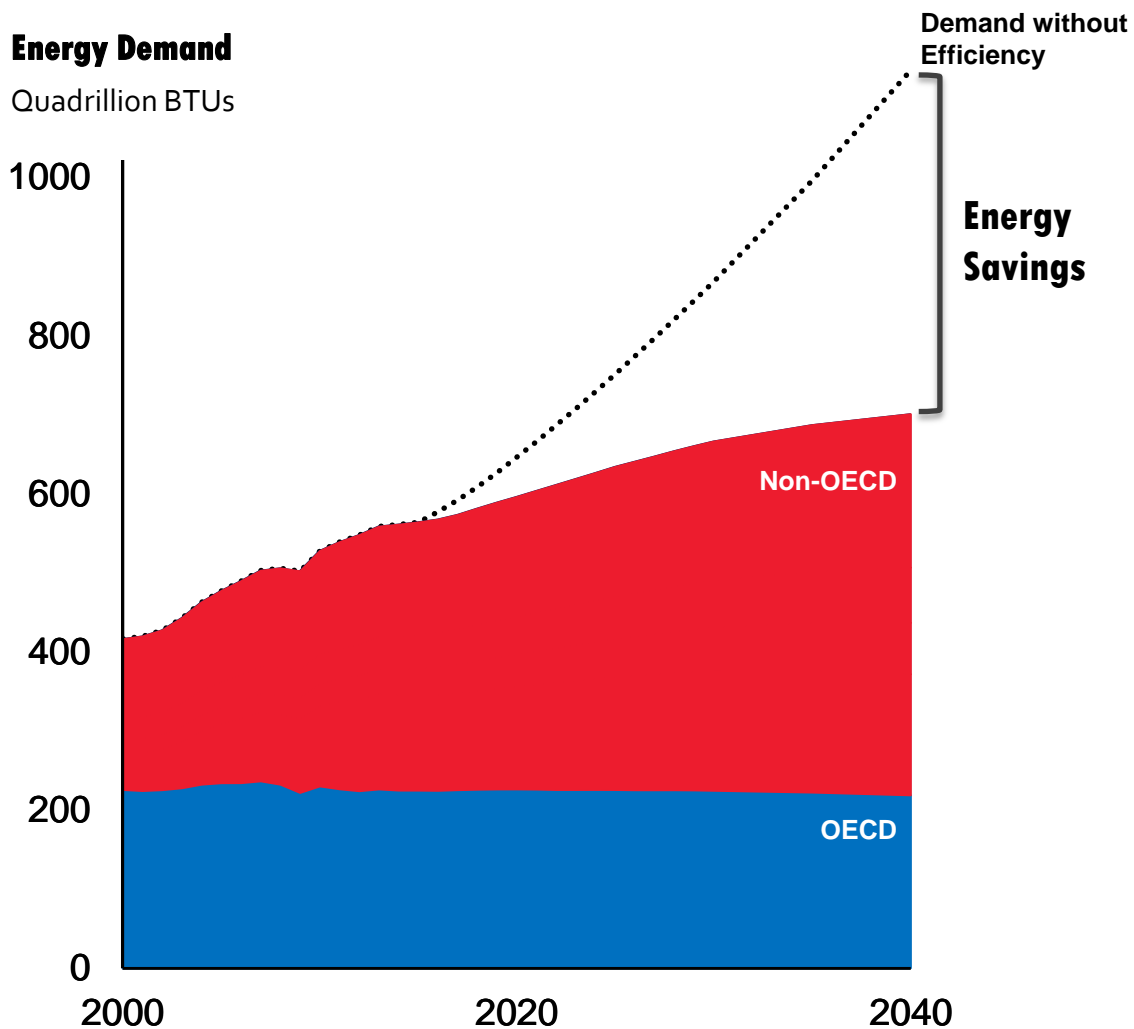


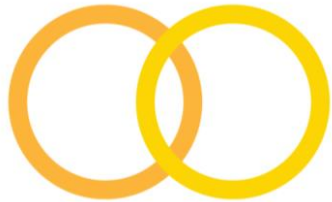
Growth 2015-2040

Trillion 2010\$



Demand Growth From Developing Nations



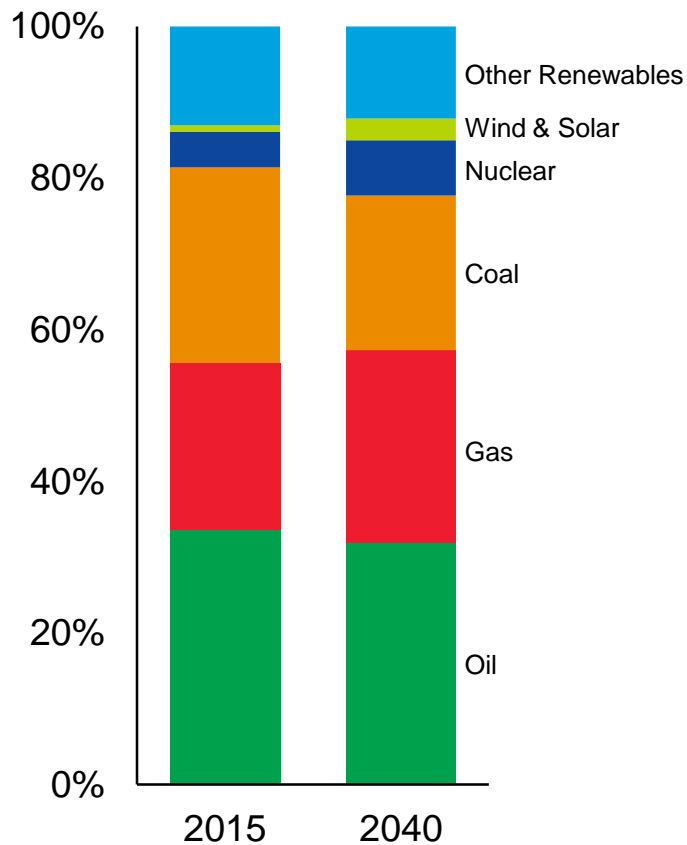


Economics and
policies impact the
energy mix.

Energy Mix Shifts to Lower-Carbon Fuels

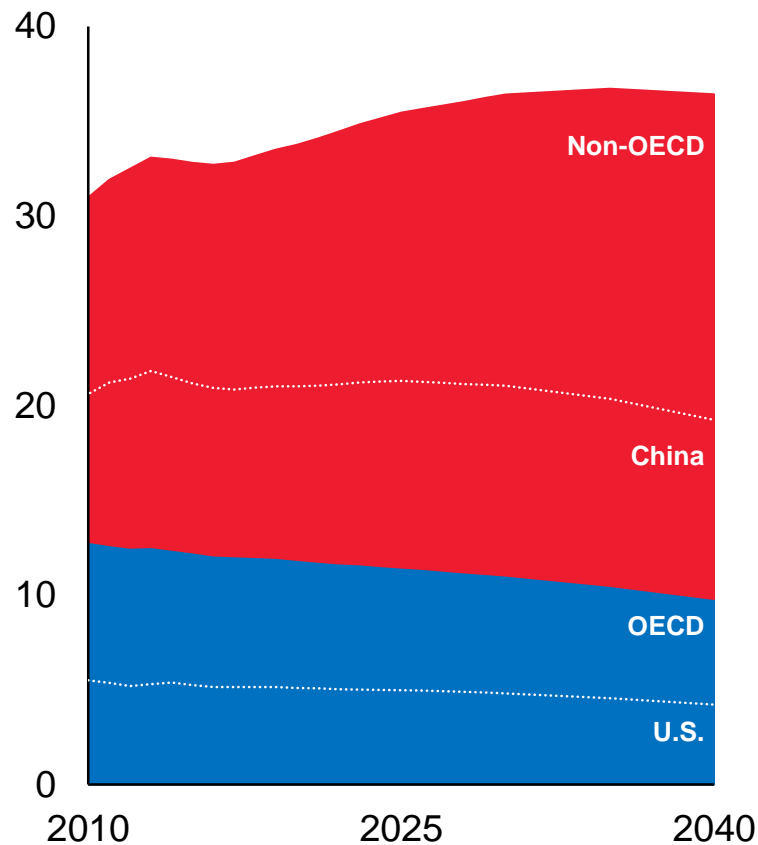
Global Energy Mix

Percent



Energy-Related CO₂ Emissions by Region

Billion Tonnes



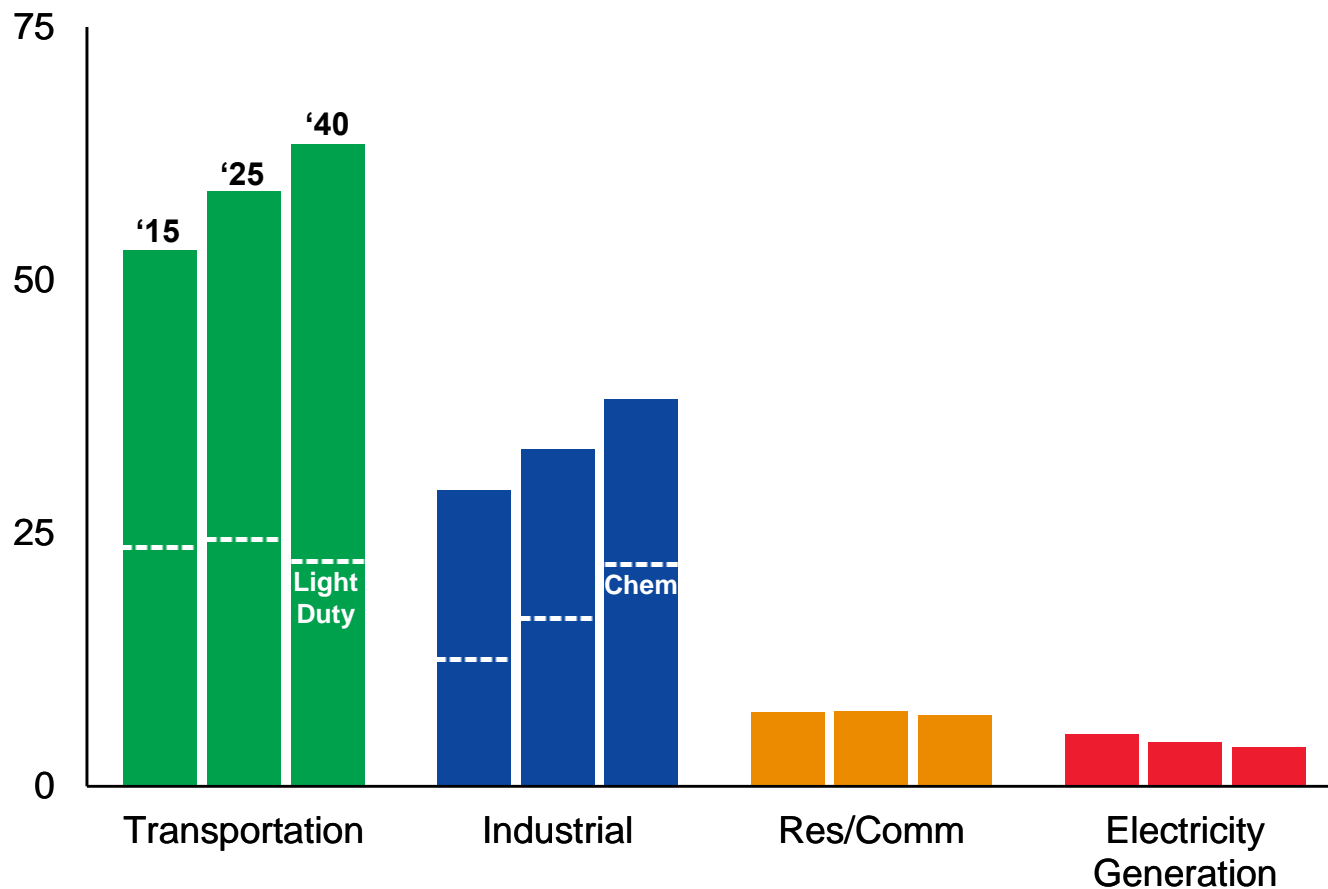


Oil remains the world's
primary fuel through
2040.

Transportation and Chemicals Drive Growth

Liquids Demand by Sector

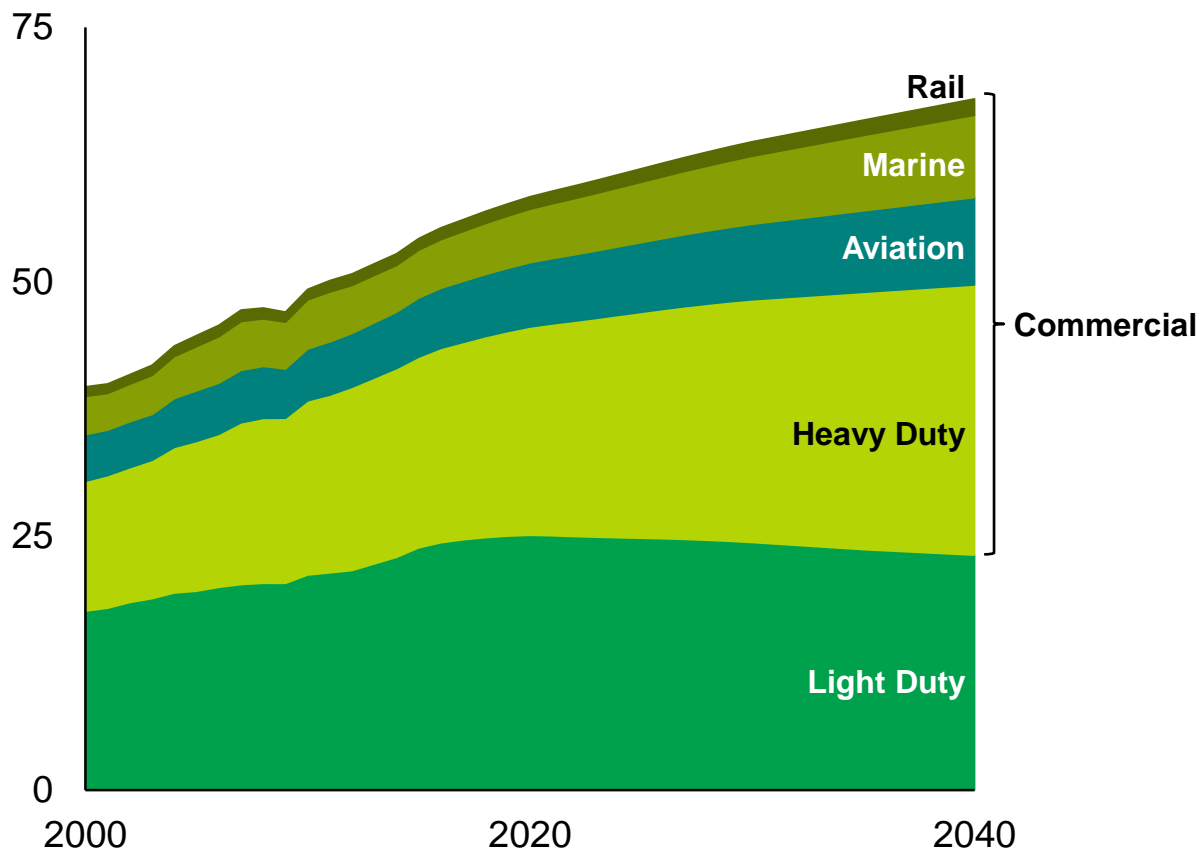
MBDOE



Transportation Demand Driven by Commerce

Sector Demand

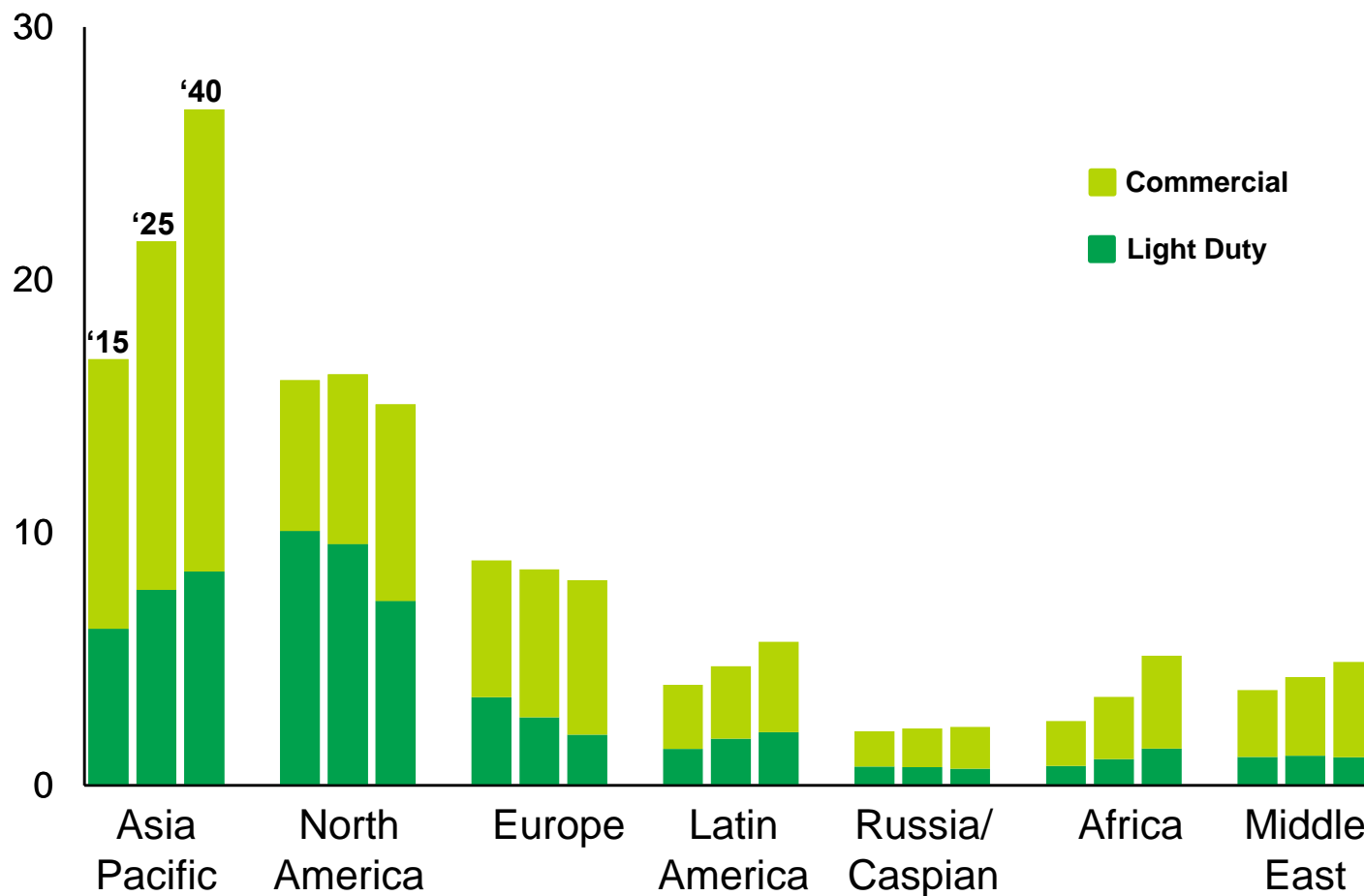
MBDOE



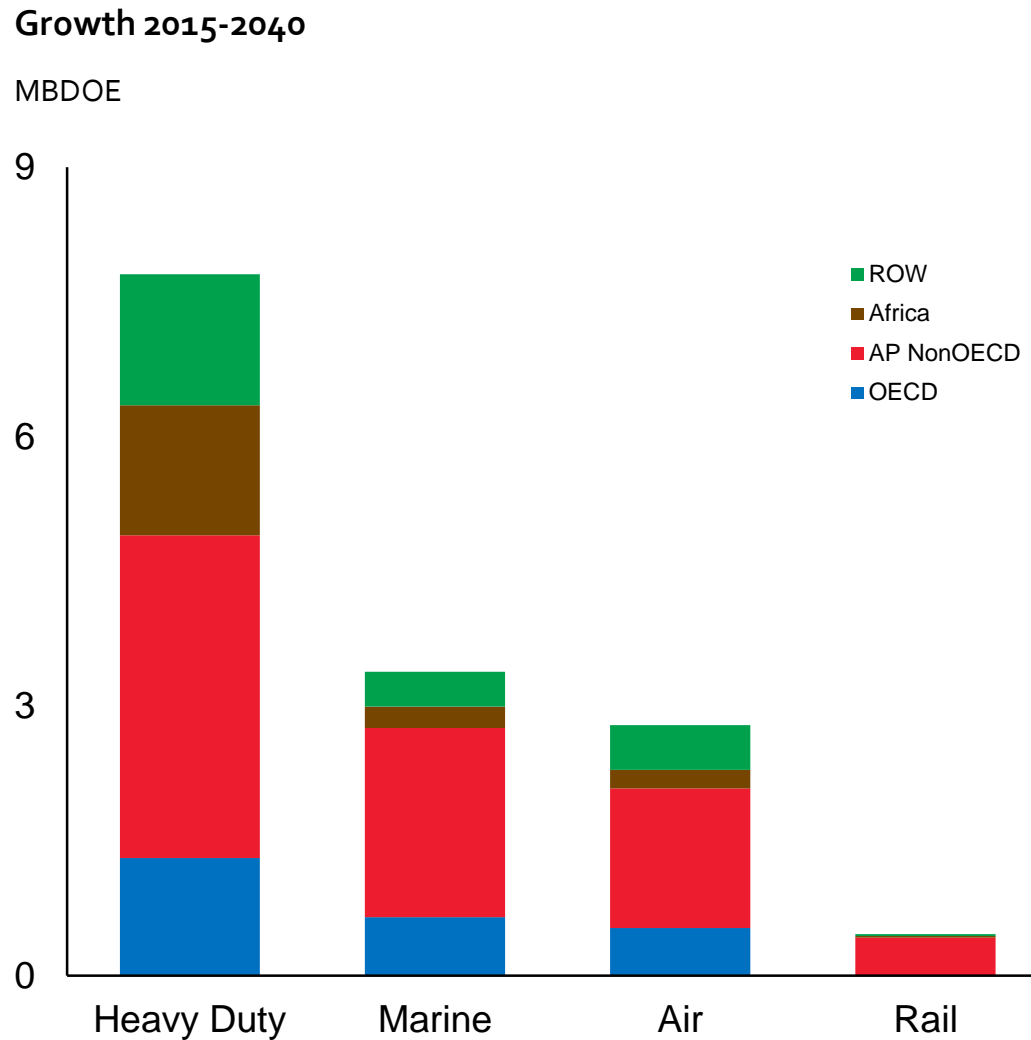
Transportation Demand Varies by Region/Sector

By Region/Sector

MBDOE



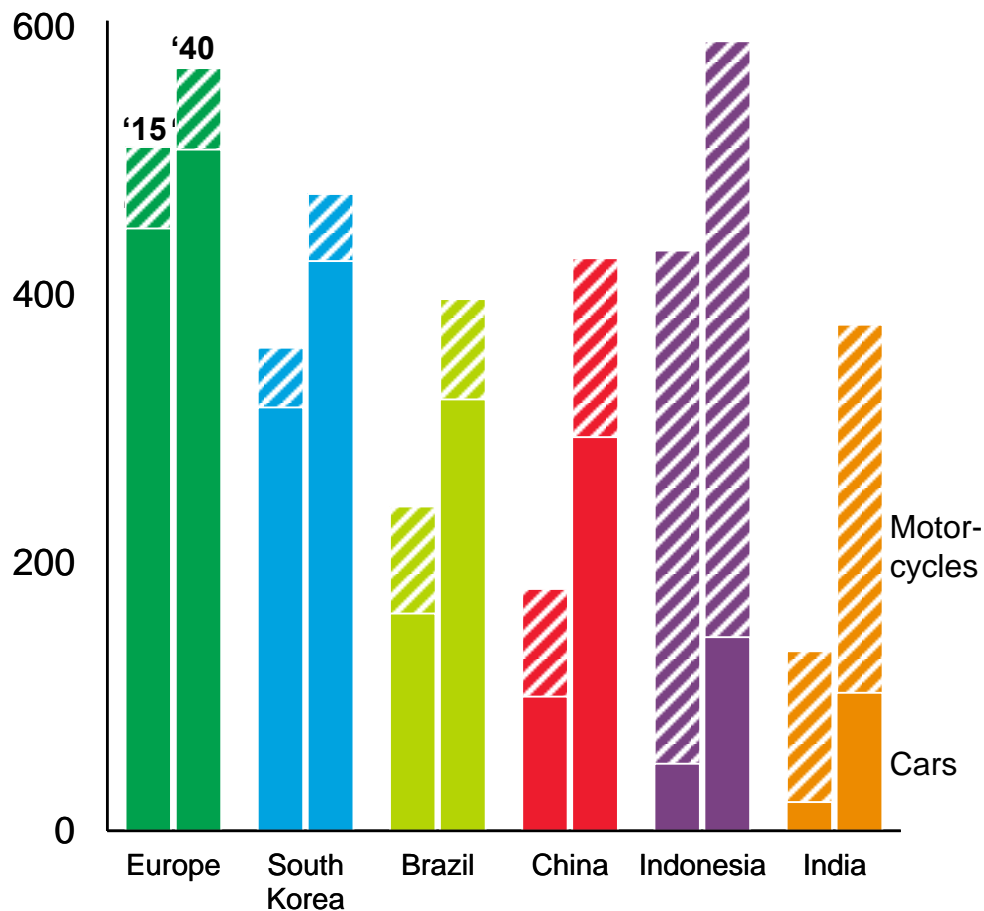
Commercial Transportation Grows in All Aspects



Personal Mobility Increases

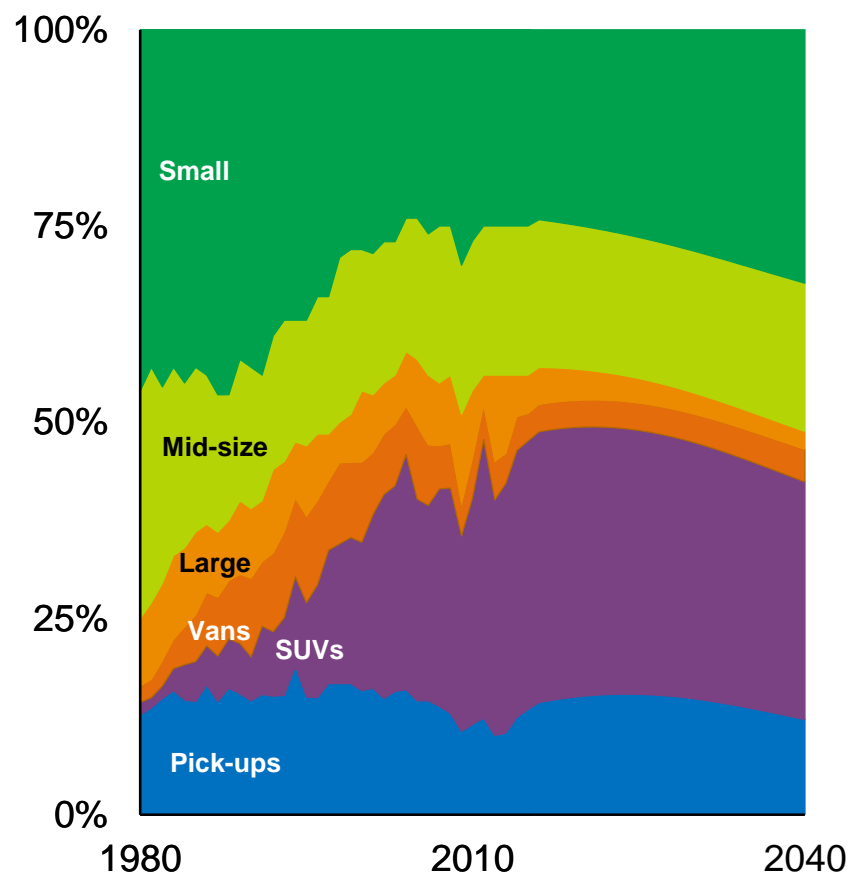
Penetration

Vehicles Per Thousand People



U.S. Car Sales by Class

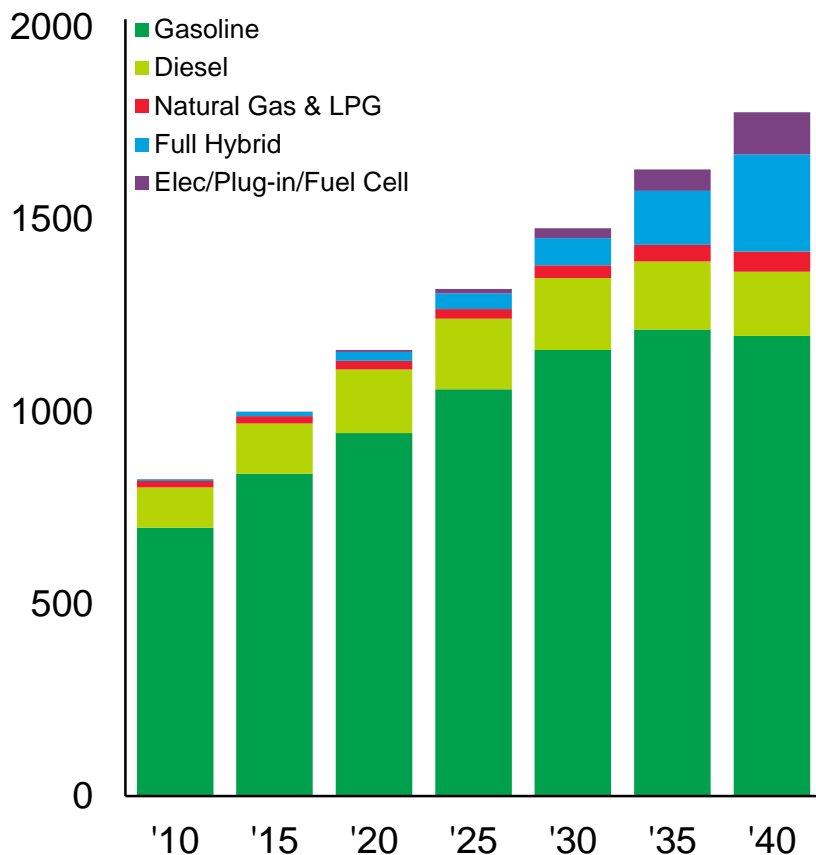
Percent



Consumer Preference and Policy Determine Fleet Mix

Fleet by Type

Million Cars



Light Duty Vehicle Demand

MBDOE

45

30

15

2000

2020

2040

Vehicle Miles Traveled

Trillion Miles

16

12

8

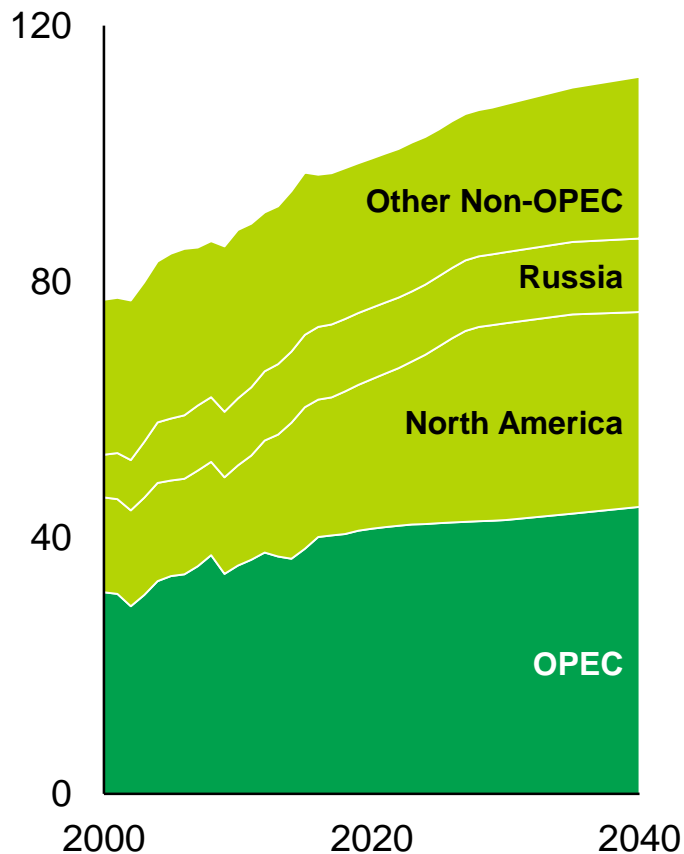
4

0

Liquids Supply Highlights Technology Gains

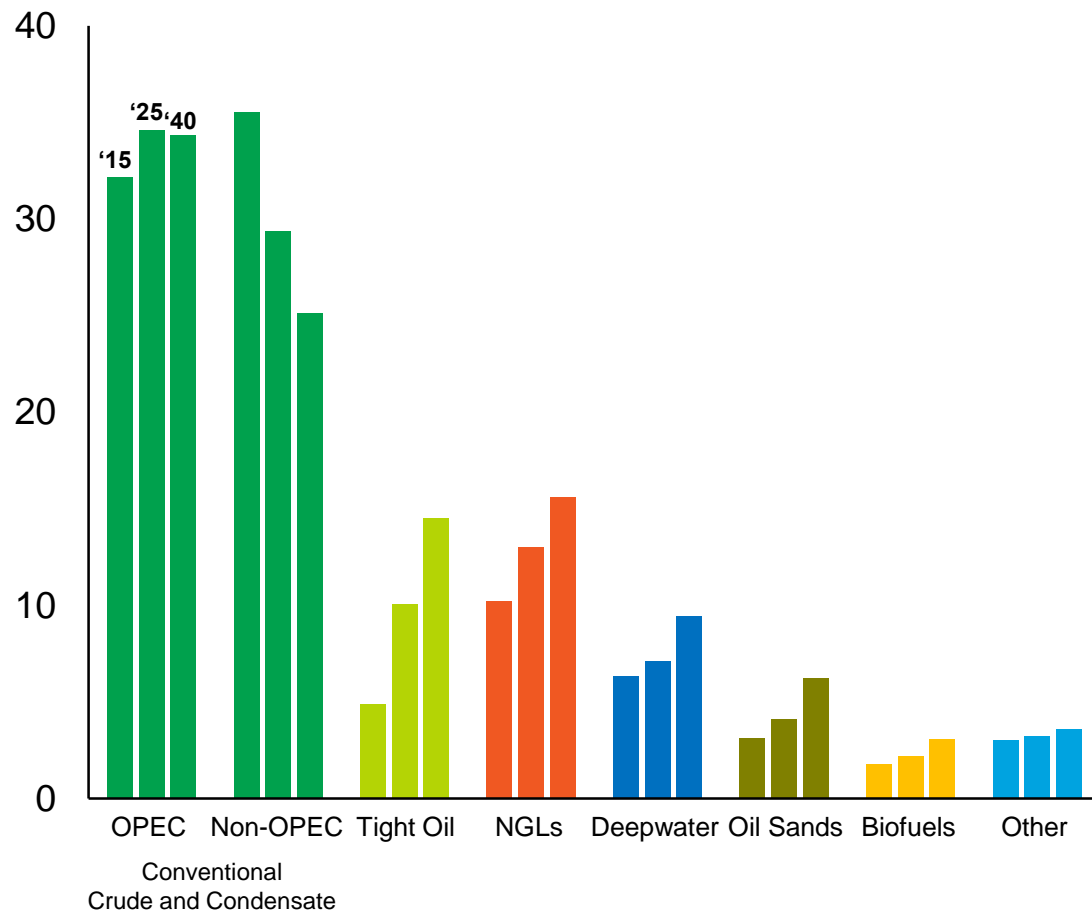
By Region

MBDOE



By Type

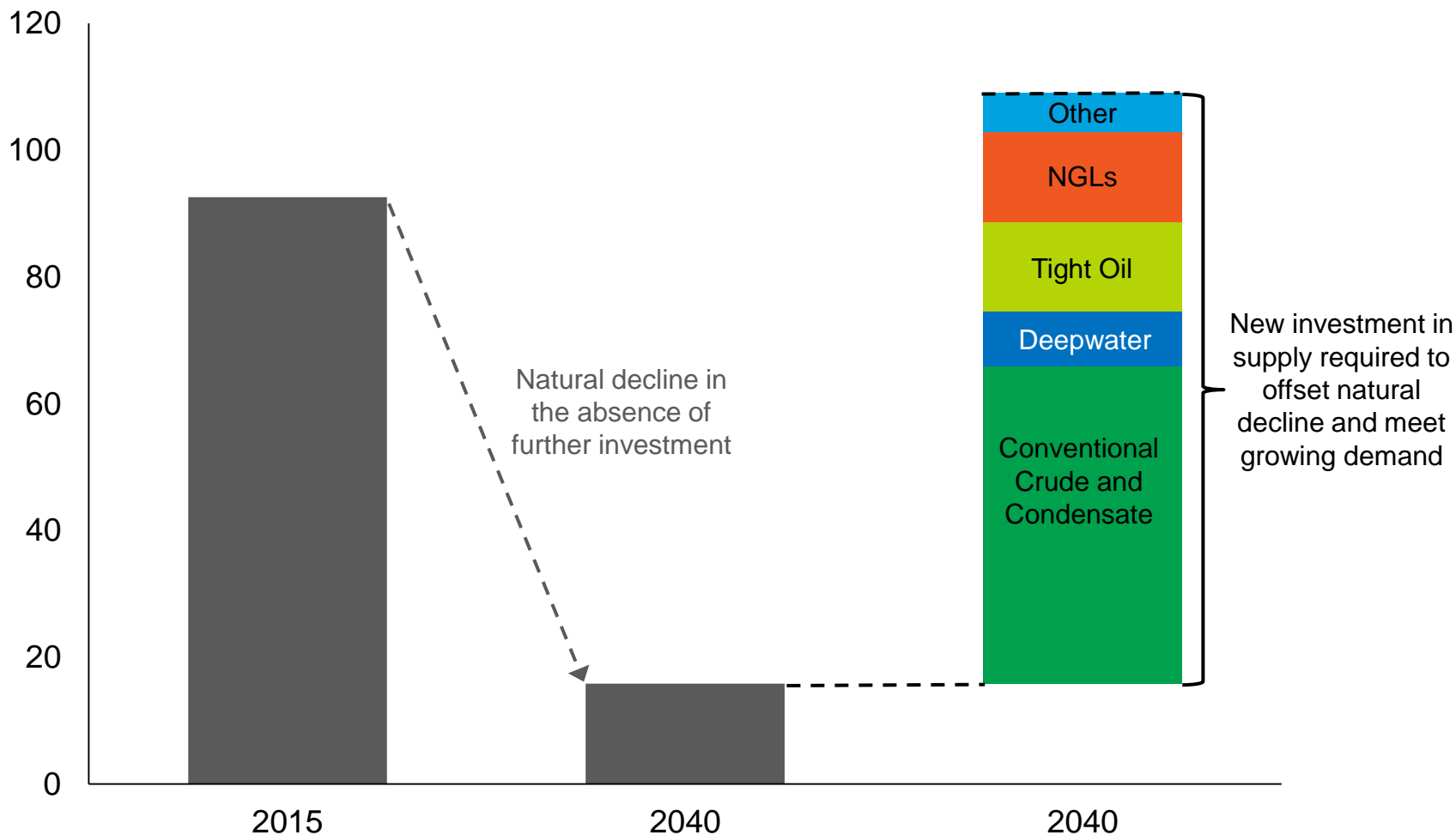
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All Scenarios Require Ongoing Development

Liquids Supply/Demand

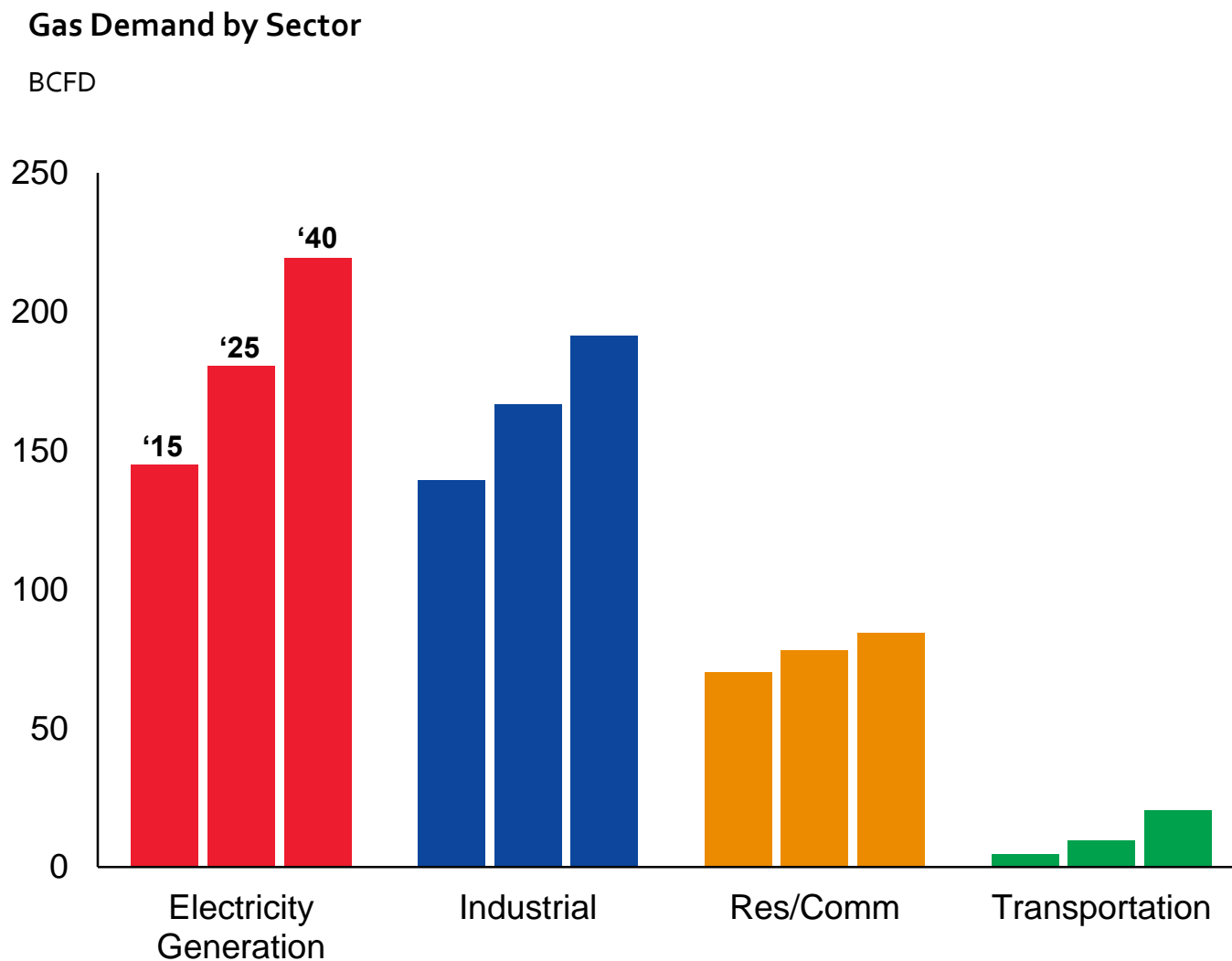
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Natural gas grows
more than any other
energy source.

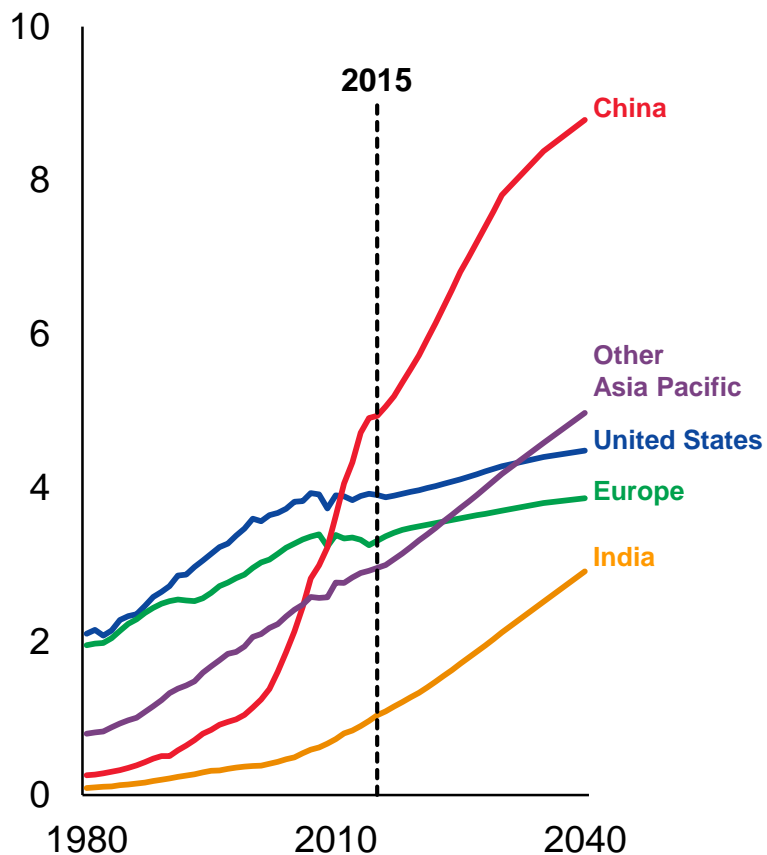
Gas Demand Grows in All Sectors



Electricity Demand Continues to Surge

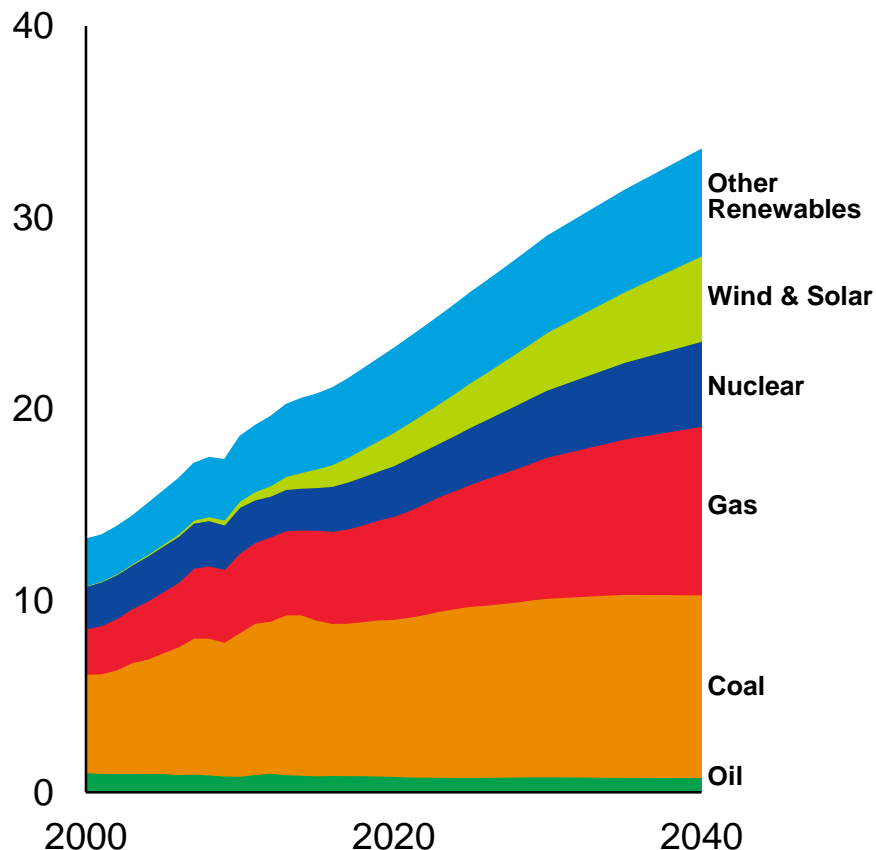
Electricity Demand by Region

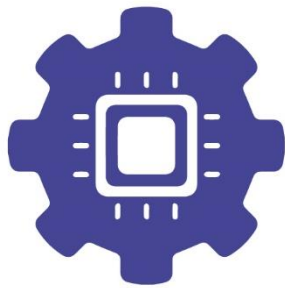
Thousand TWh



Electricity Net Delivered by Type

Thousand TWh



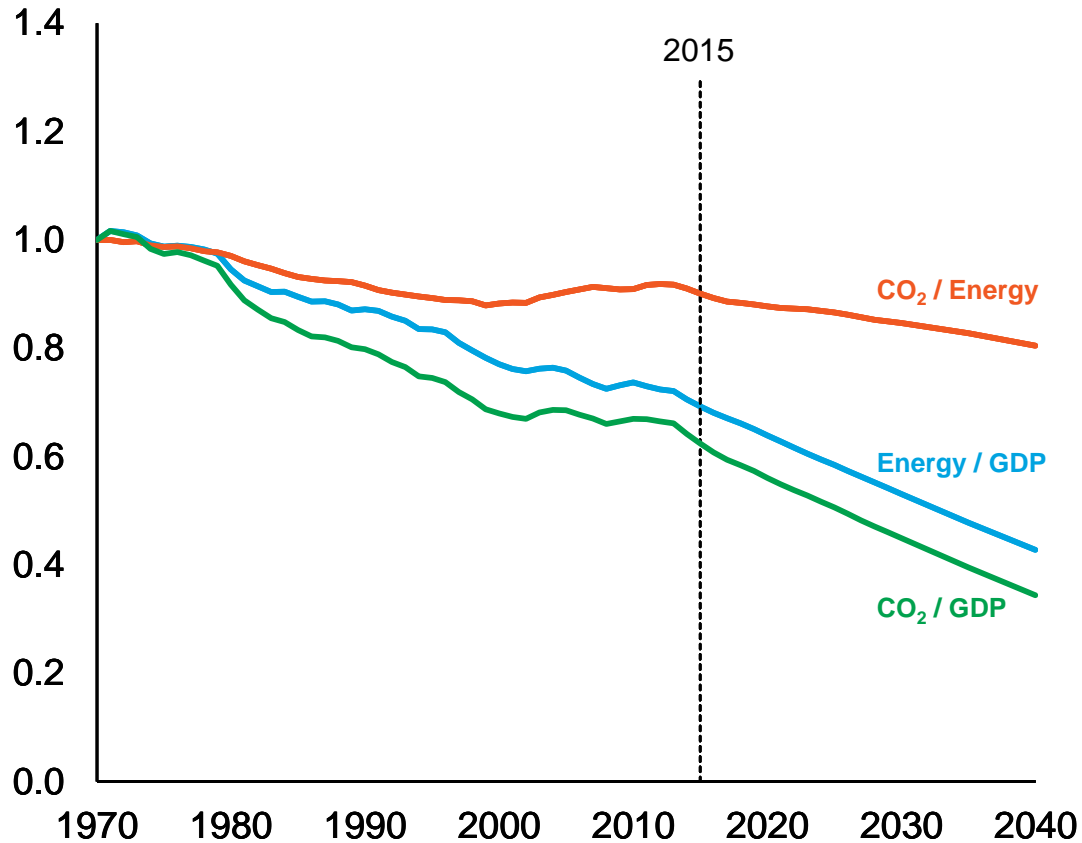


Technology has the highest potential and greatest uncertainty.

Technology Helps Us Do More With Less

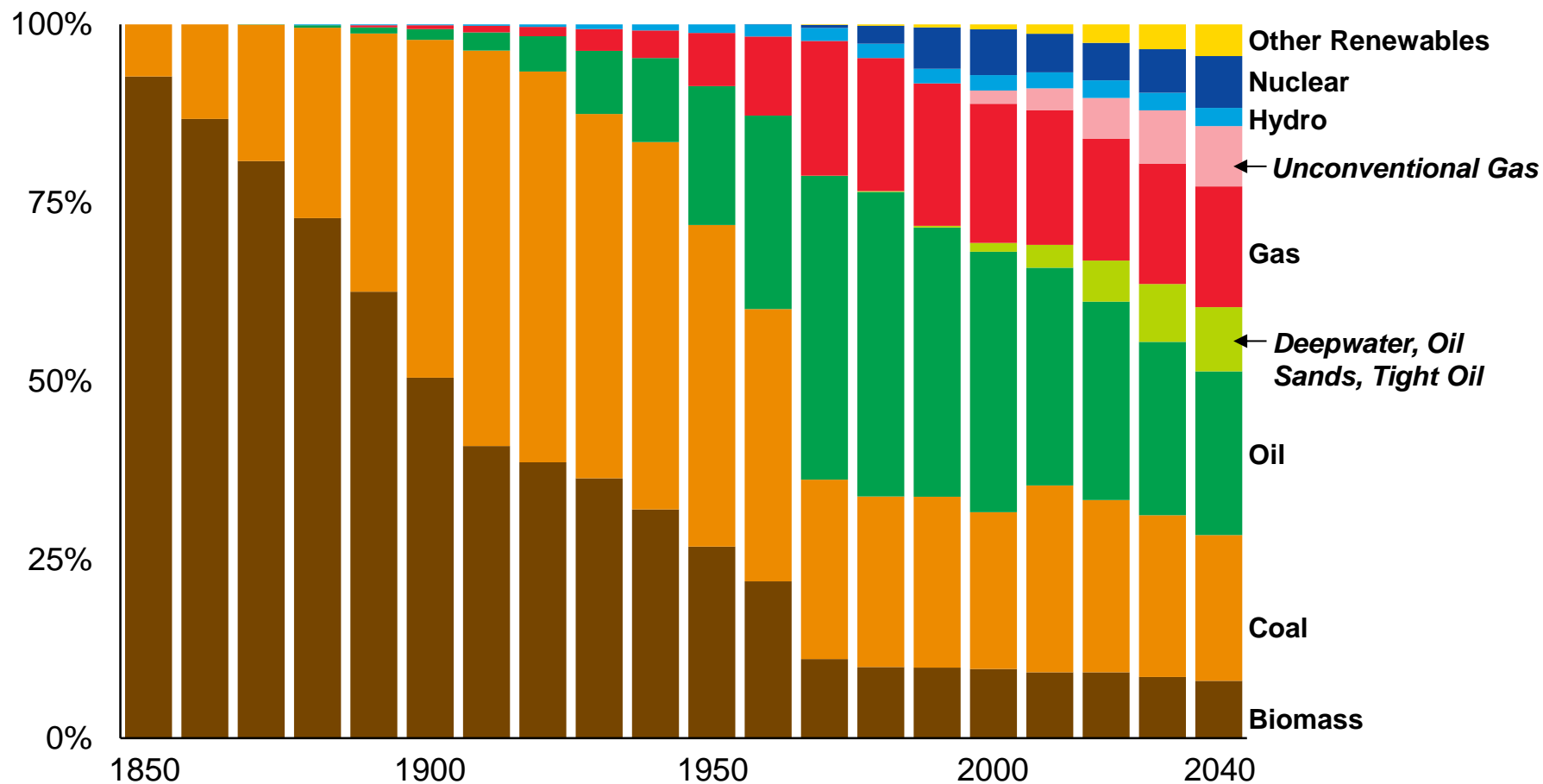
Global Average Intensity

Index



Technology Contributes to the Fuel Mix

Global Mix of Fuels



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

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Available on the
App Store



ANDROID APP ON
Google play

A nighttime photograph of the Shanghai skyline from the Bund. The Huangpu River is in the foreground, with many people walking on the promenade. The background is filled with brightly lit skyscrapers and historic buildings, including the Oriental Pearl Tower and the Bund Finance Center. The water reflects the city lights.

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