



API Automotive/Petroleum Industry Forum

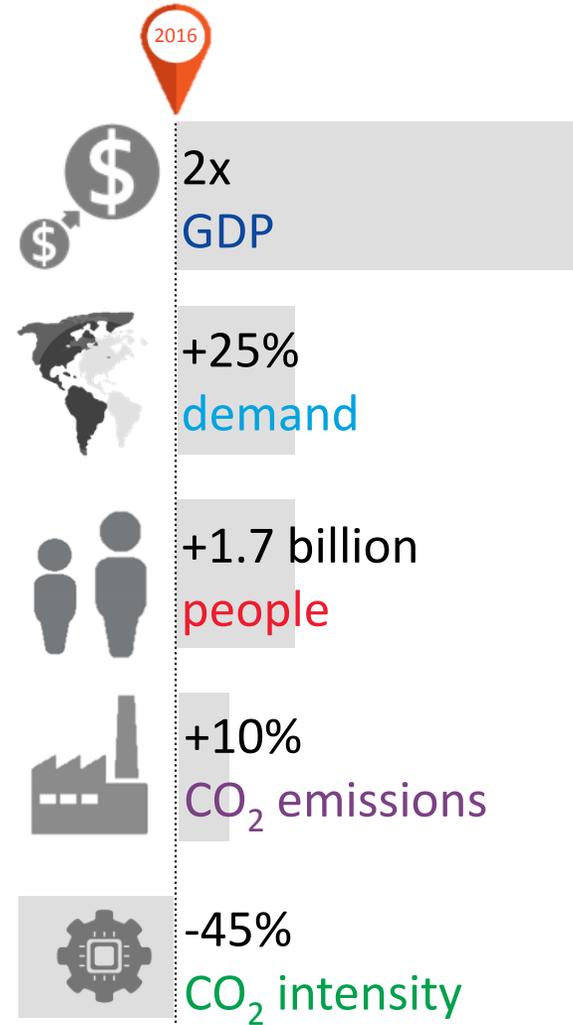
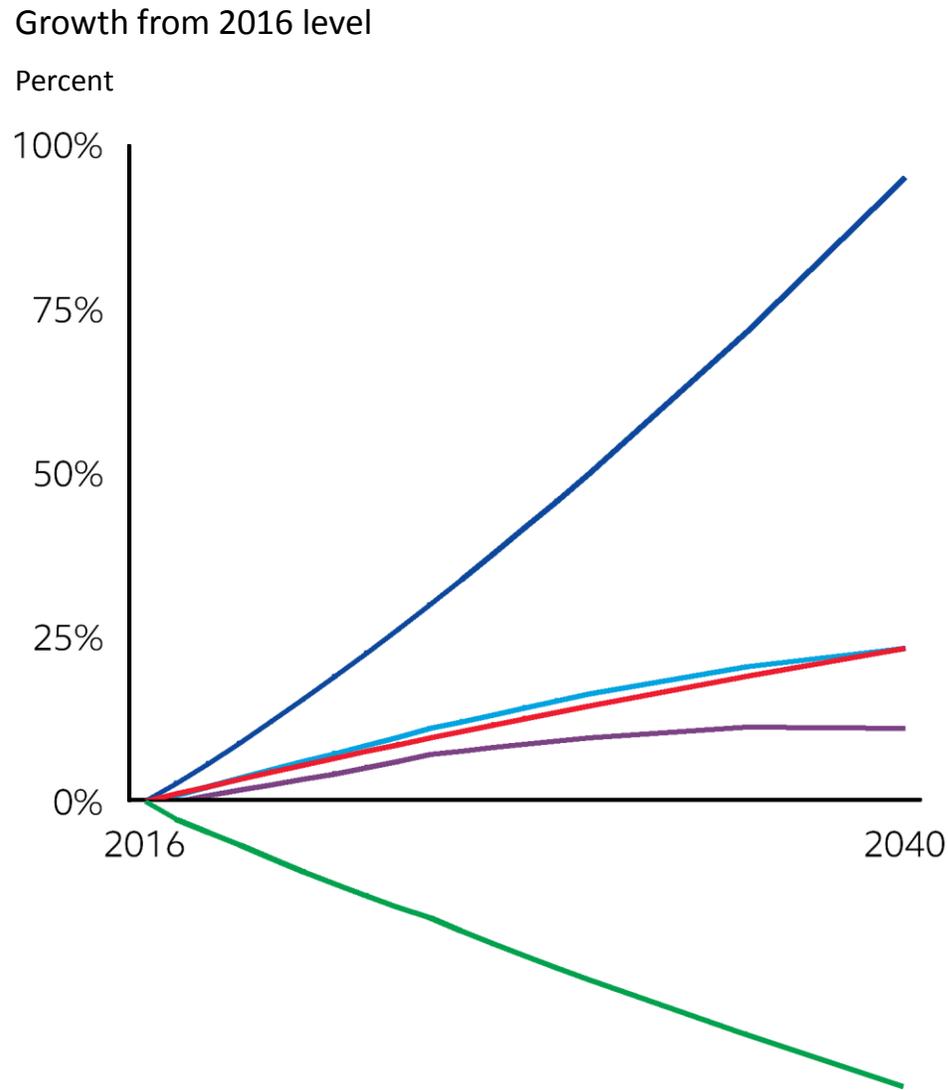
Alessandro Faldi

April 17, 2018

2018 Outlook for Energy: A View to 2040

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 2017. 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.

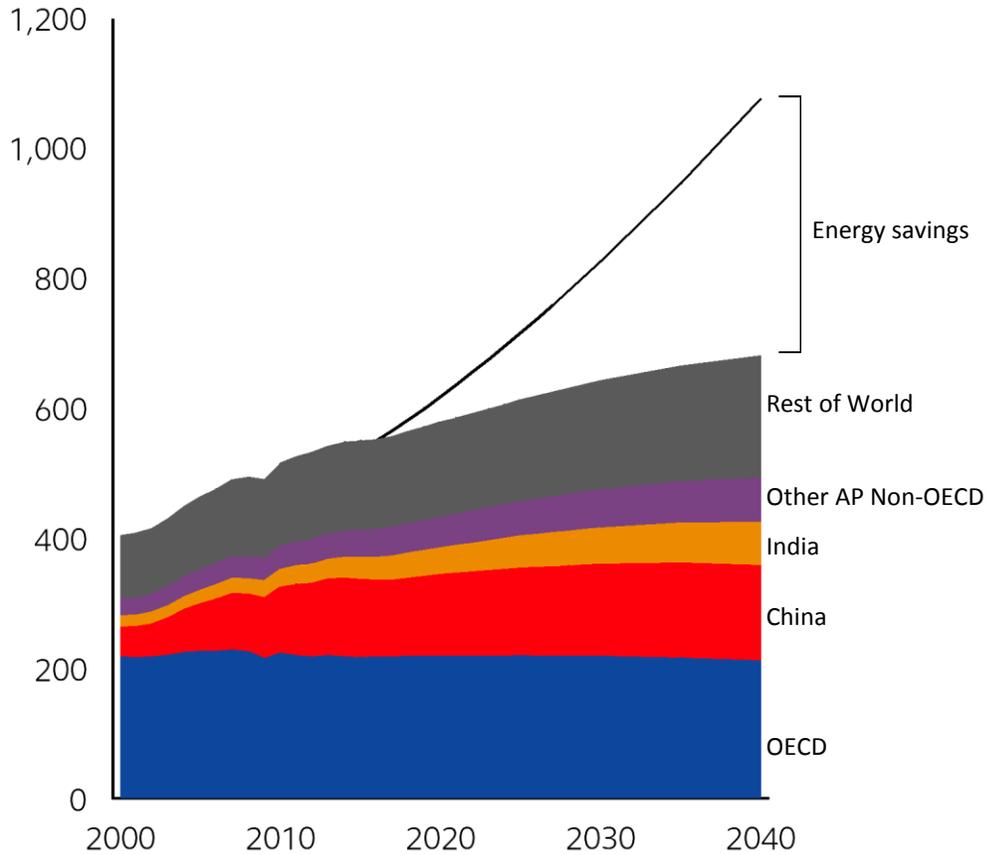
Global Trends Continue to Evolve



Global Efficiency Limits Demand Growth

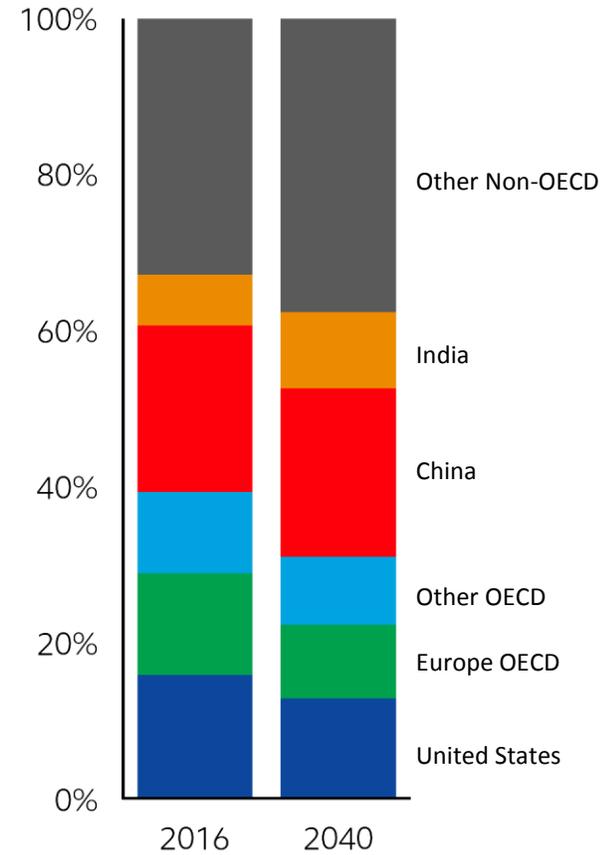
Energy demand

Quadrillion BTUs



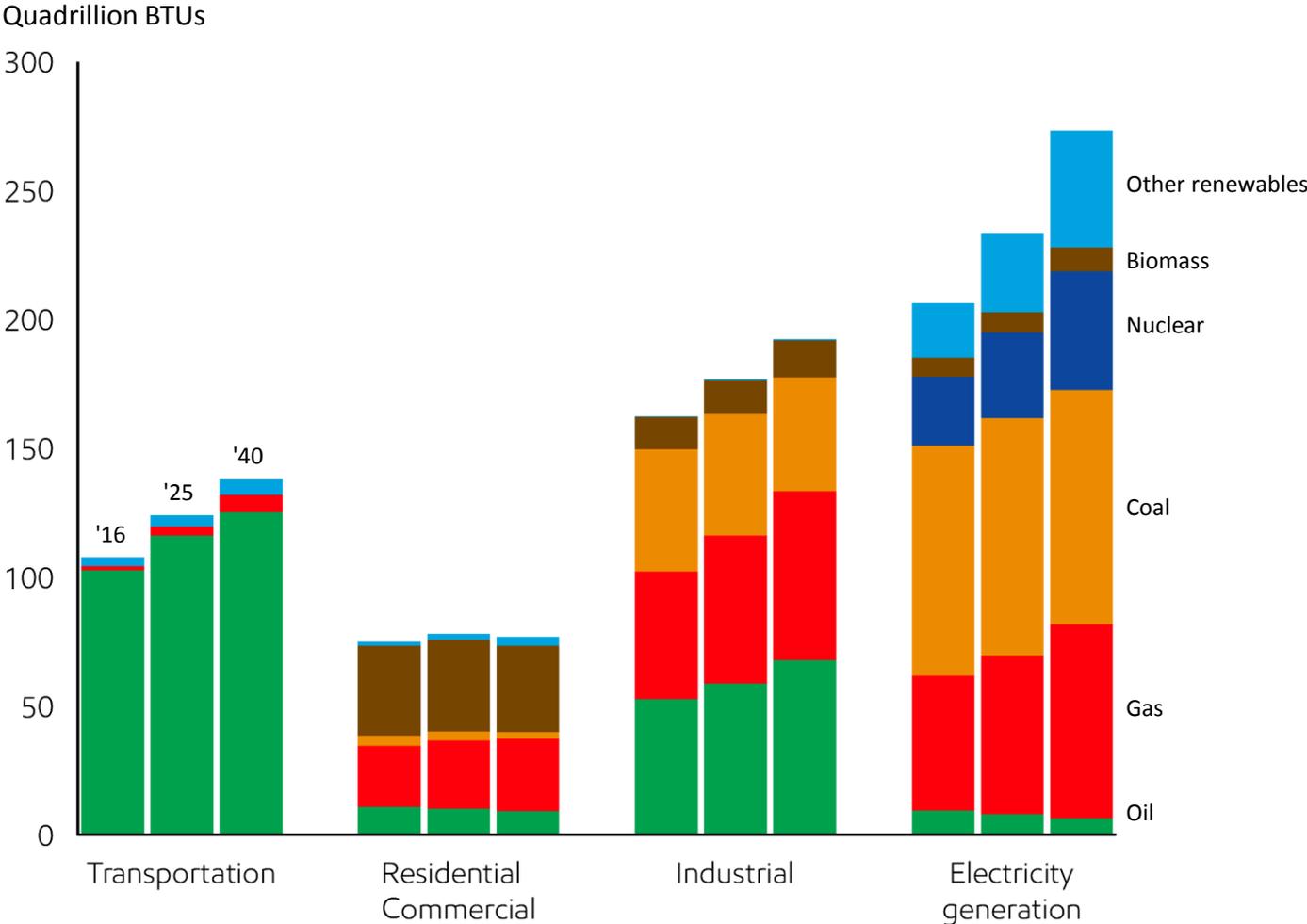
Share of primary energy demand by region

Share of Quadrillion BTUs



Energy Demand Varies by Sector

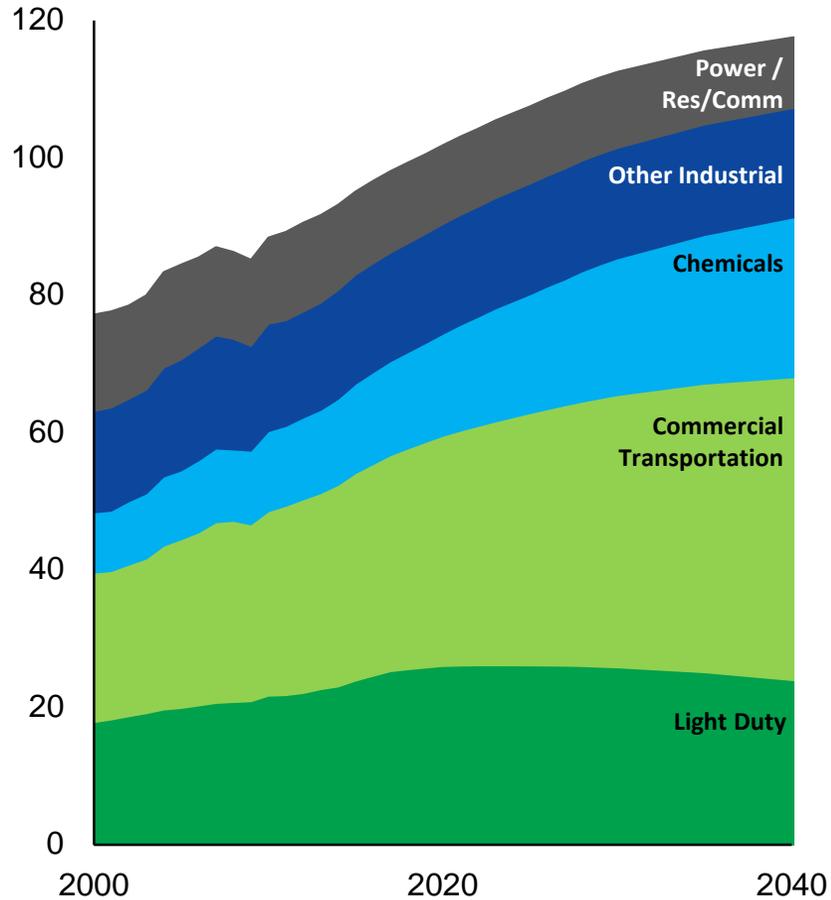
Primary energy demand by sector



Focus on Growth Sectors

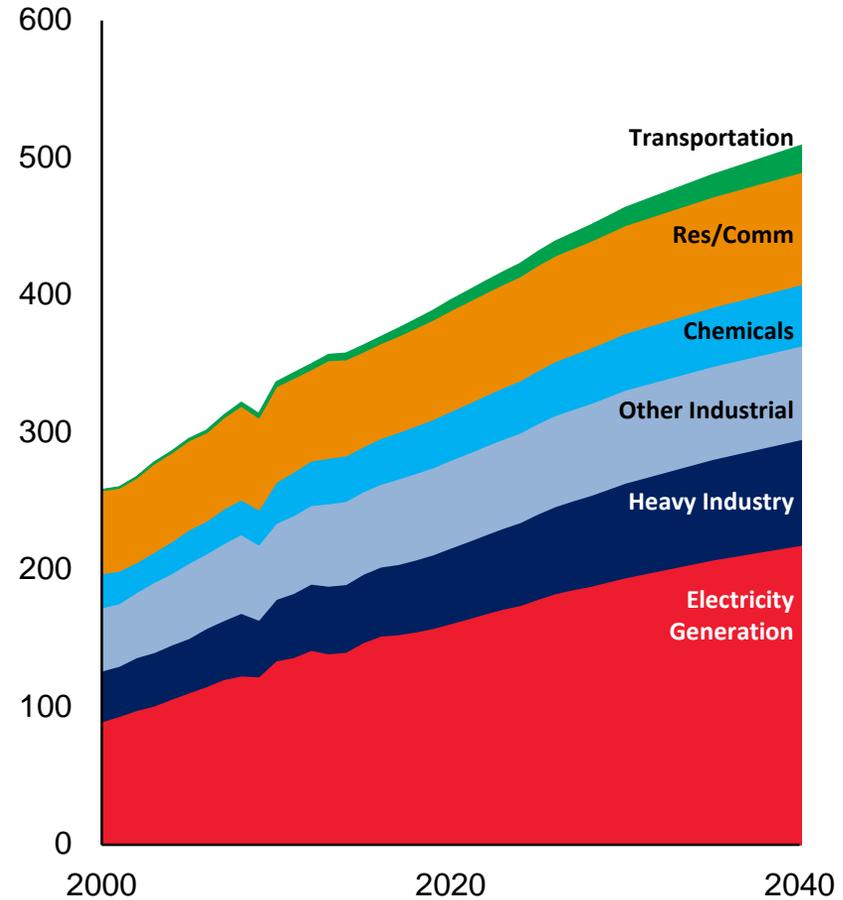
Liquids Demand Reflects Economic Growth & Efficiency

MBDOE



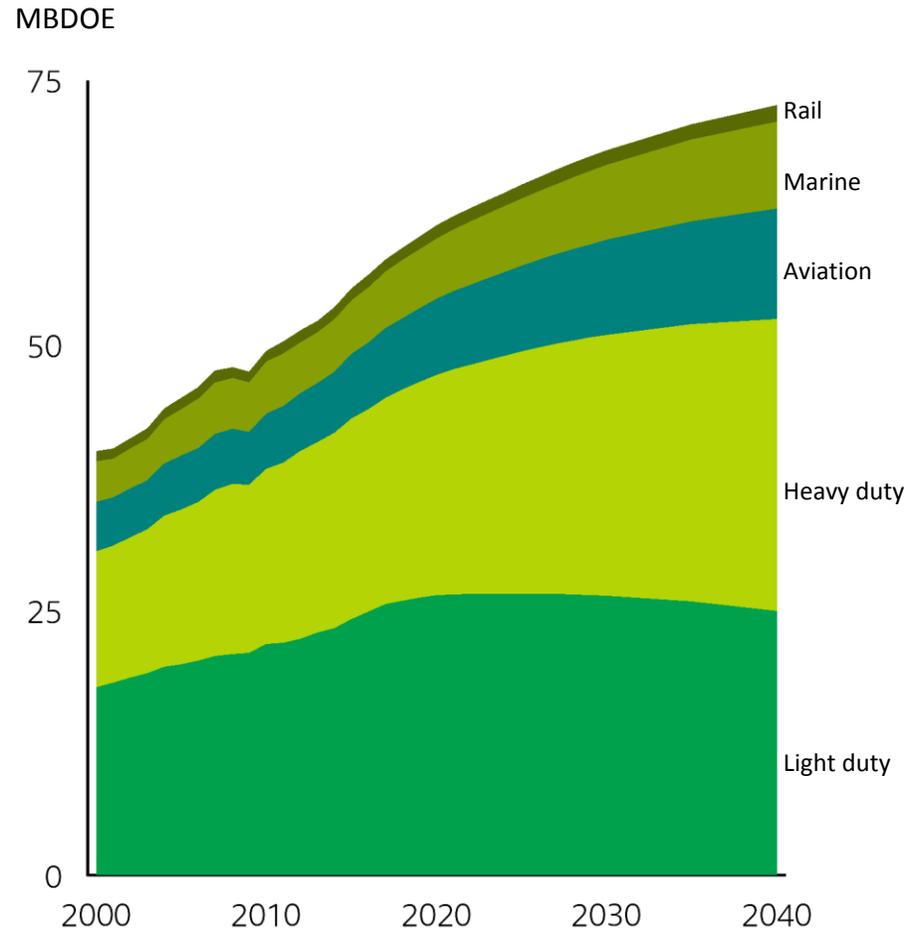
Versatile Gas Competes in Every Sector

BCFD

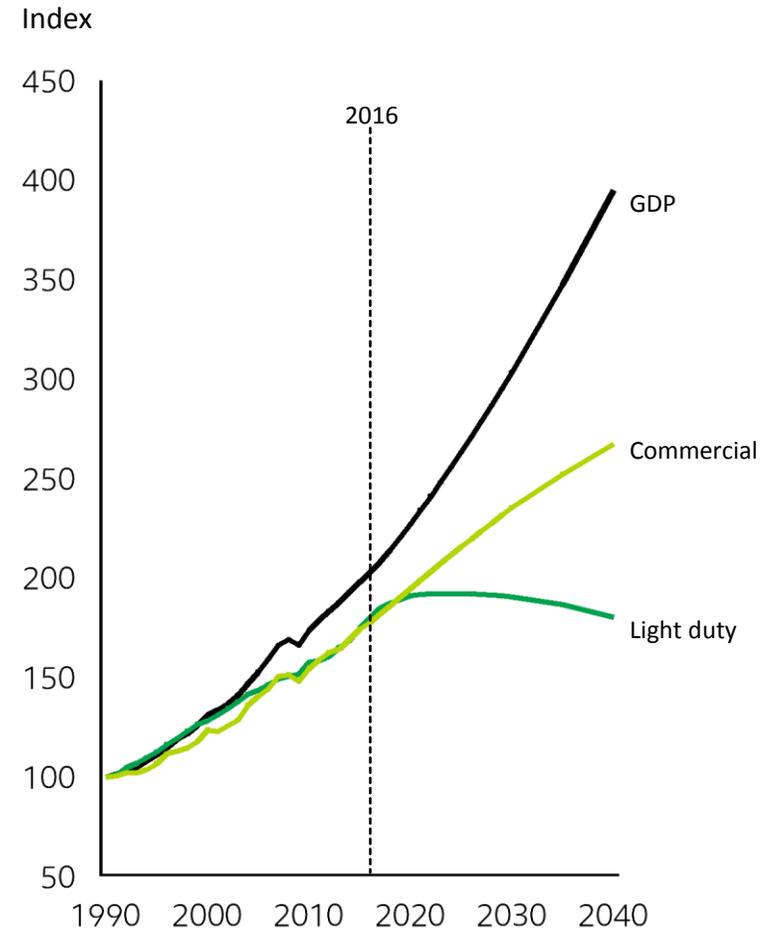


Transportation Demand Driven by Commerce

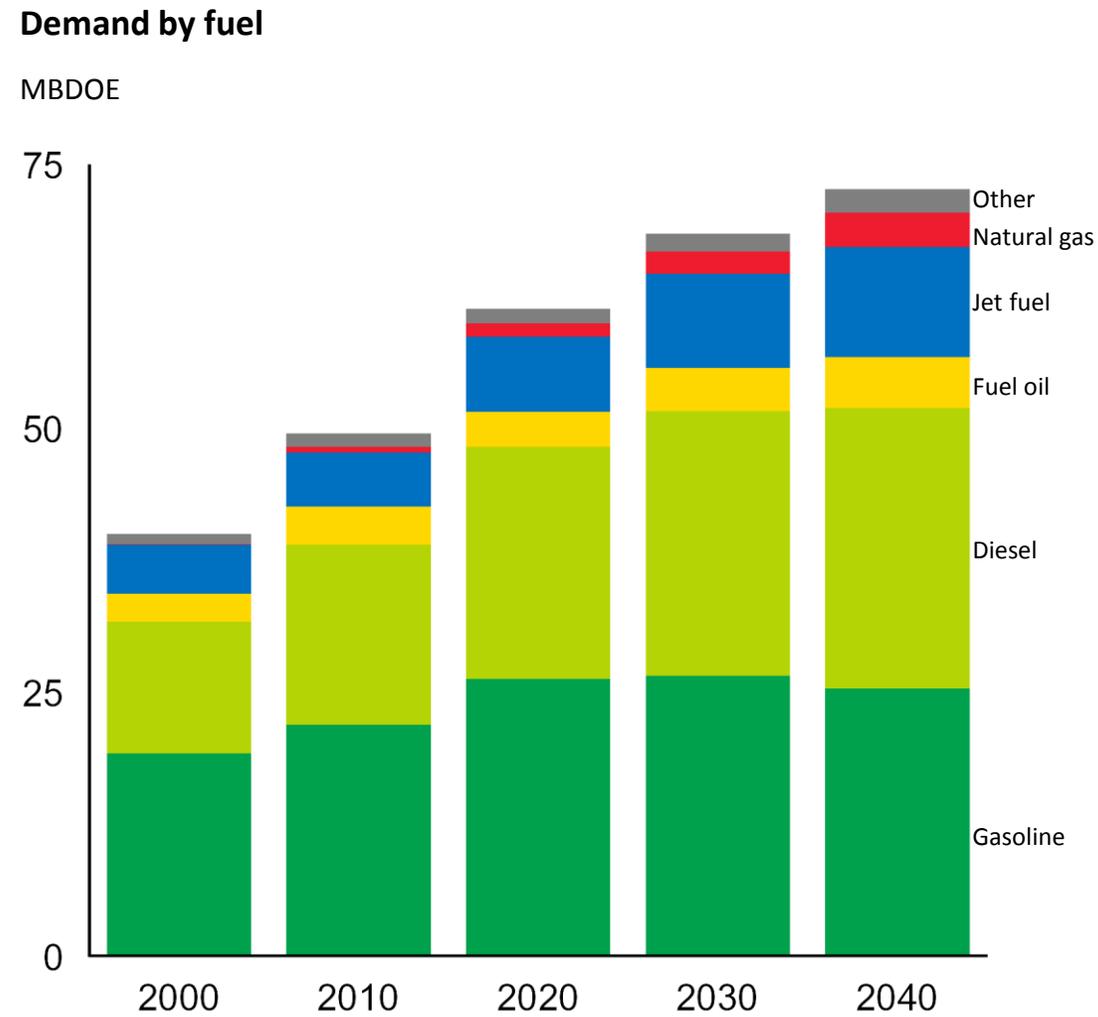
Transportation demand



Growth 1990-2040



Global Transportation Energy Mix Evolves

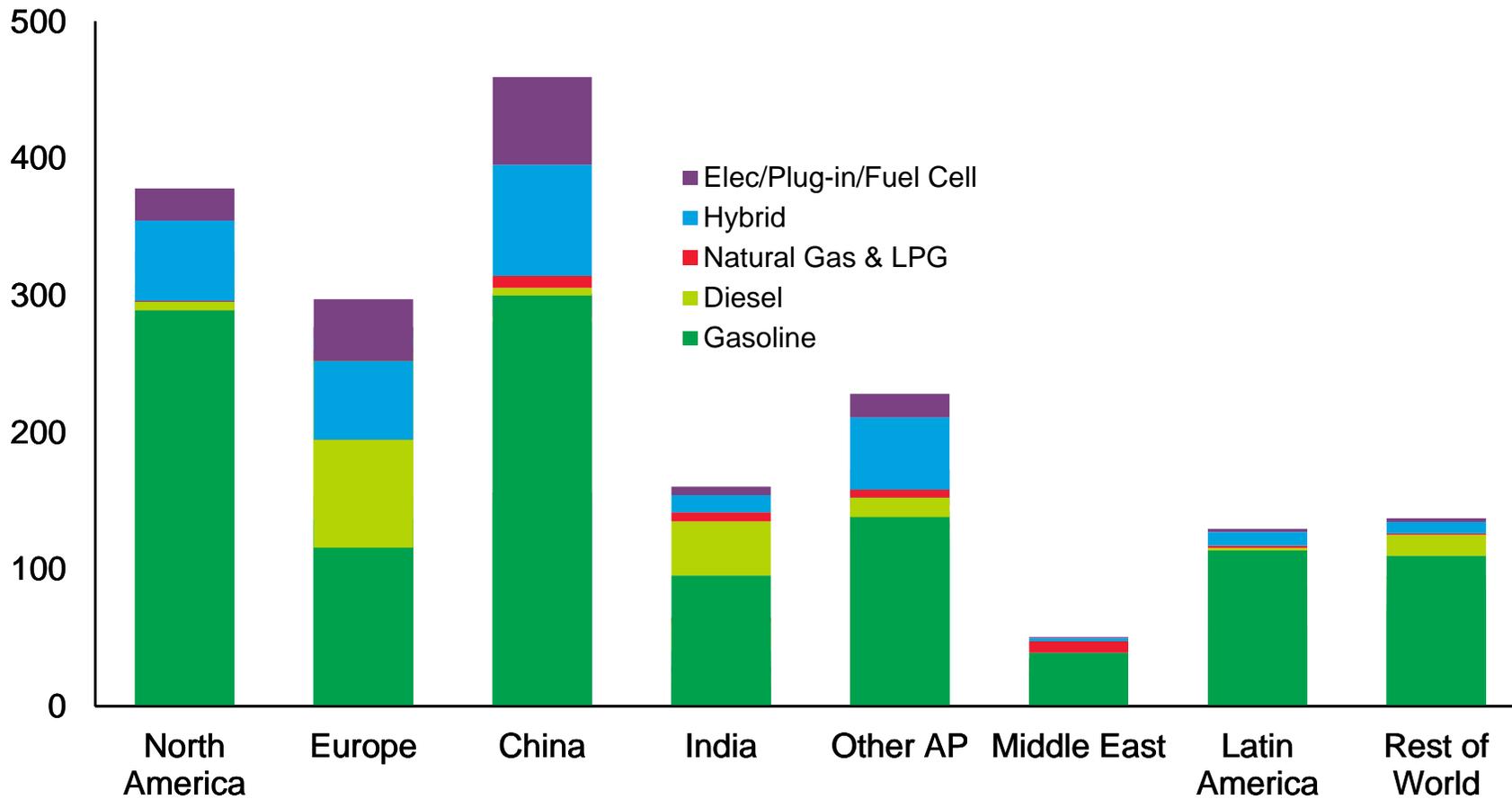


Light Duty Vehicle Fleet Grows, Mix Changes

Powertrain Technology

Million Vehicles

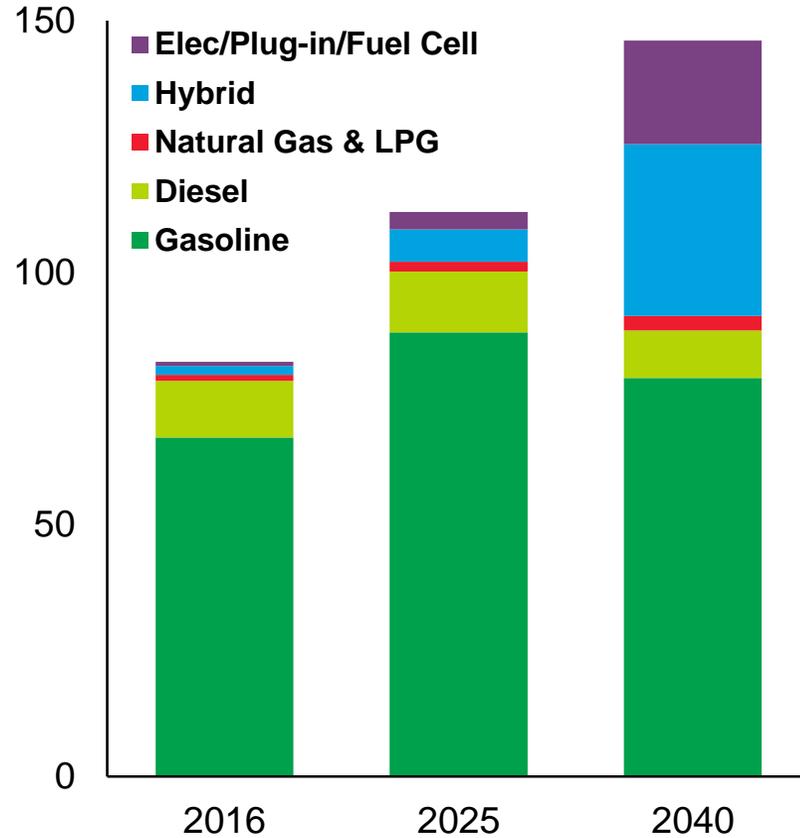
2040



New Light Duty Vehicle Efficiency

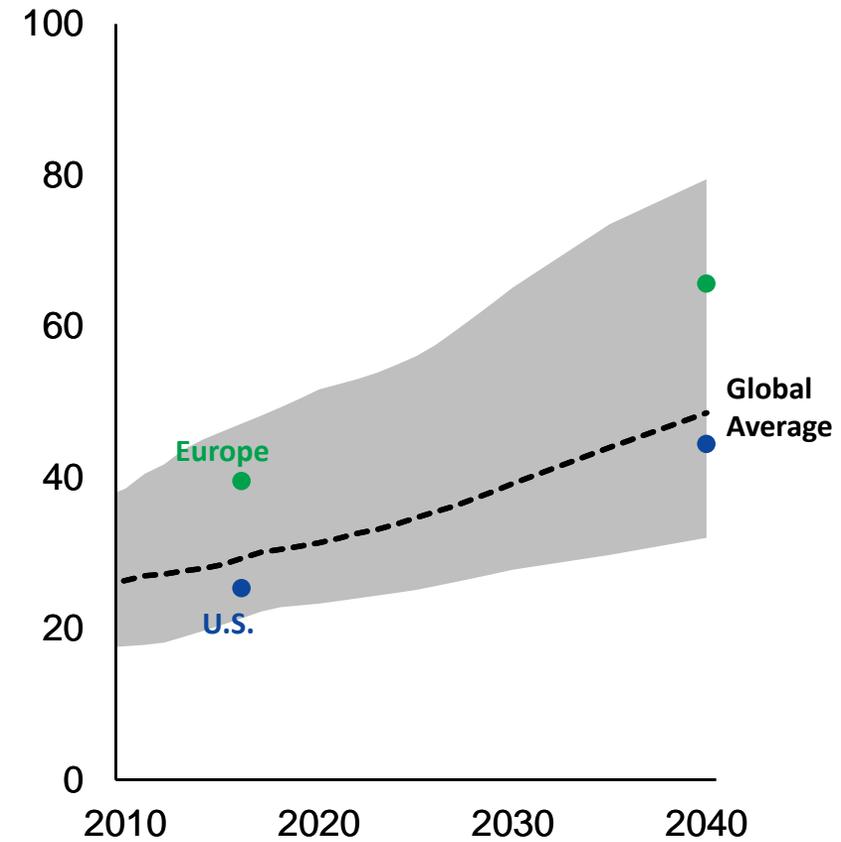
New Vehicles by Type

Million



Average New Vehicle Efficiency

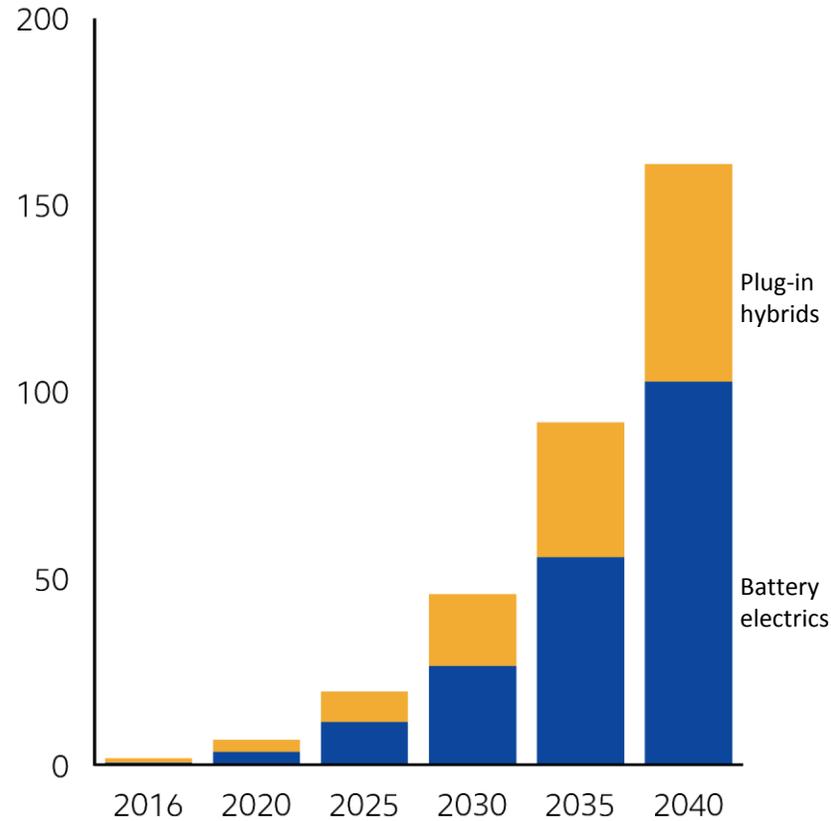
On-Road Miles per Gallon



Policy and Consumer Choices Impact Demand

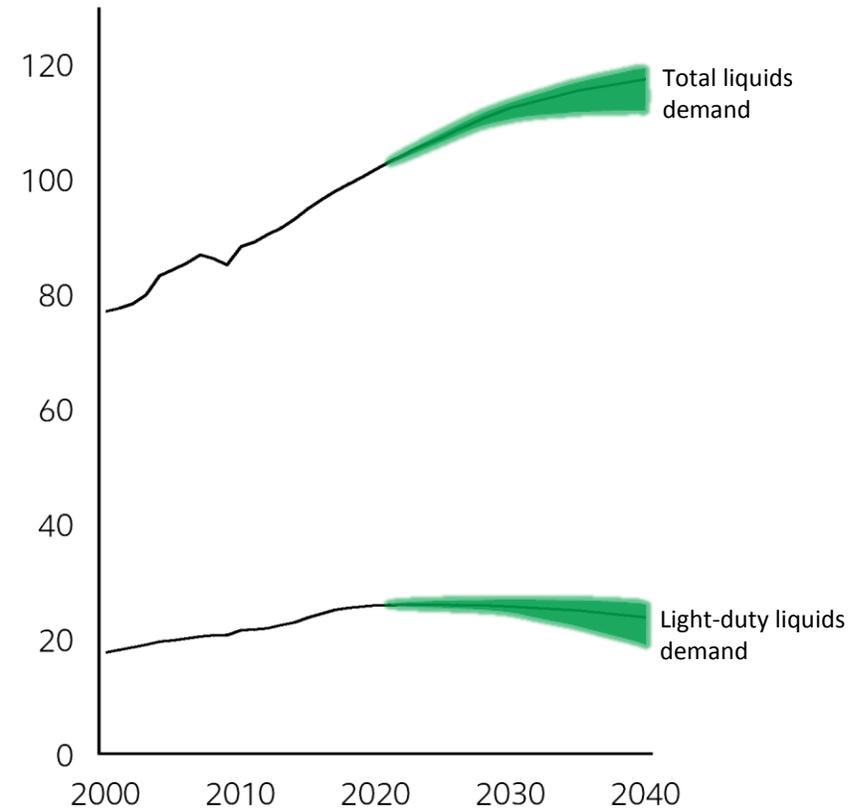
Electric vehicles grow rapidly

Million cars



Liquids demand remains resilient

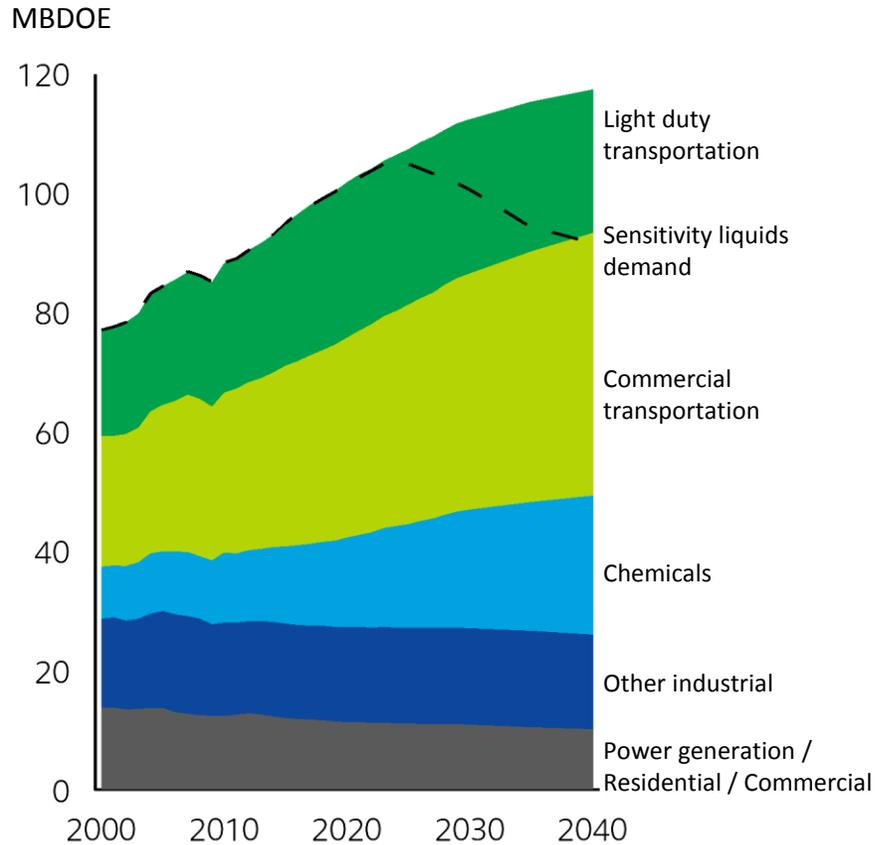
MBDOE



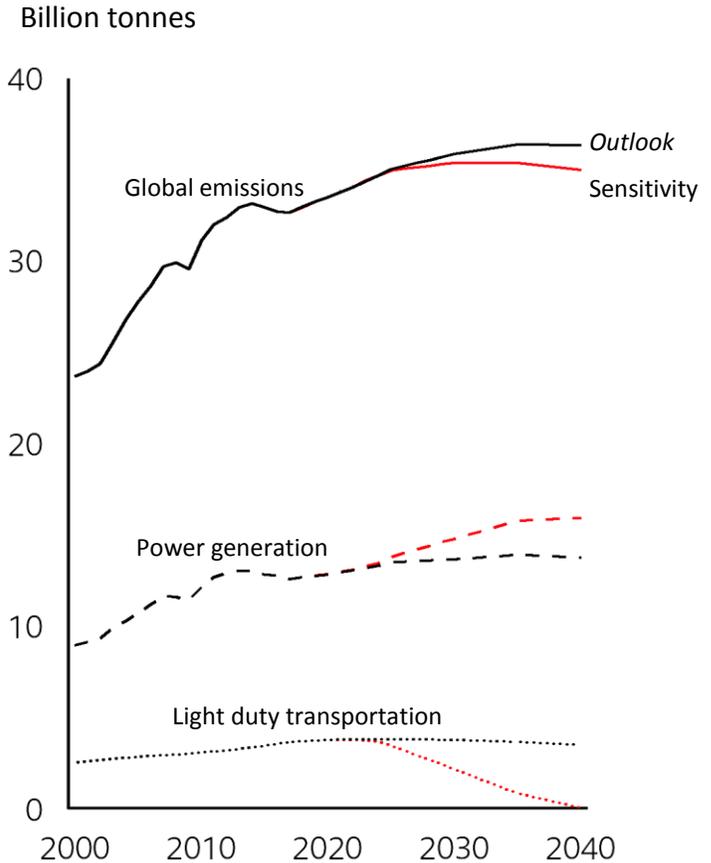
Shaded ranges are indicative of potential shifts in demand relative to base Outlook

Hypothetical Electric Vehicle Sensitivity

Liquids demand by sector

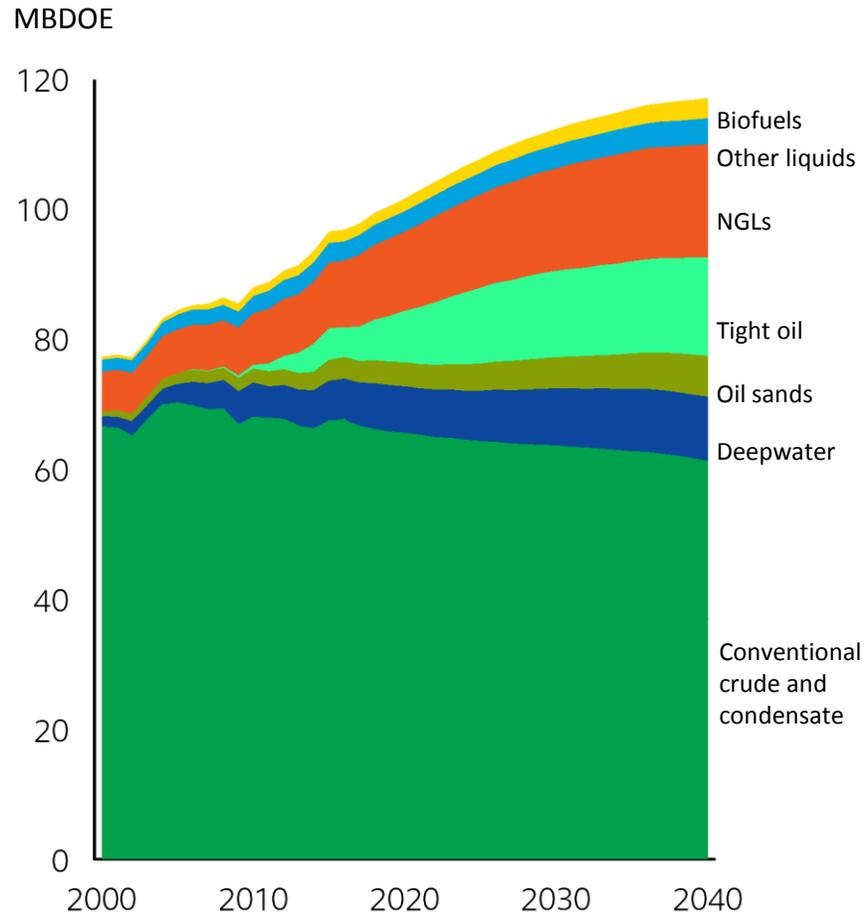


Energy-related CO₂ emissions

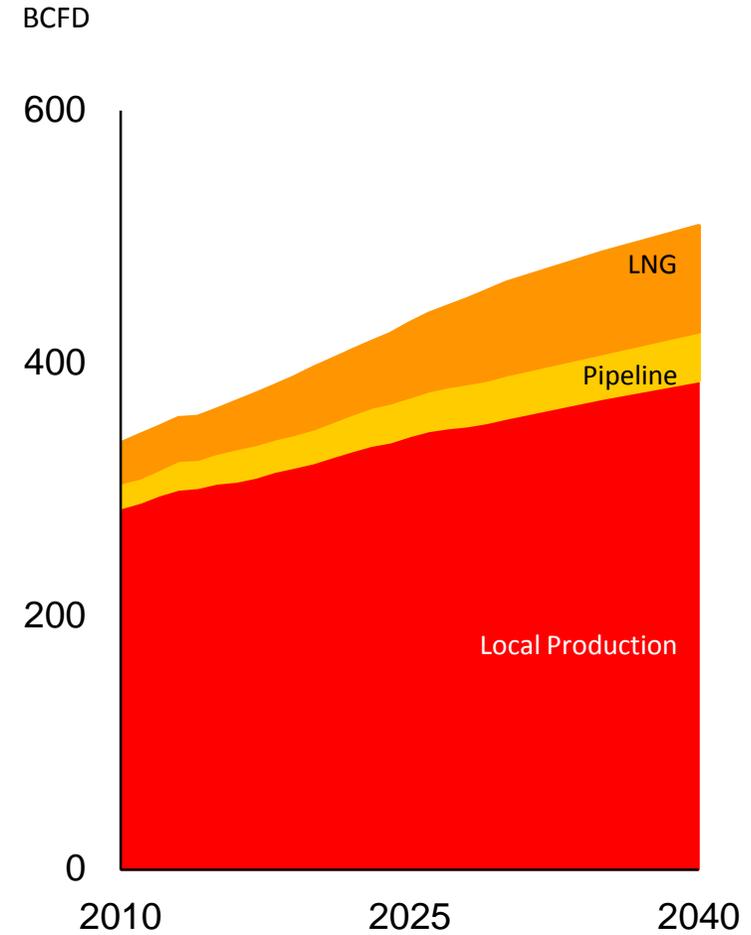


Supply Highlights Technology Gains

Liquids supply by type



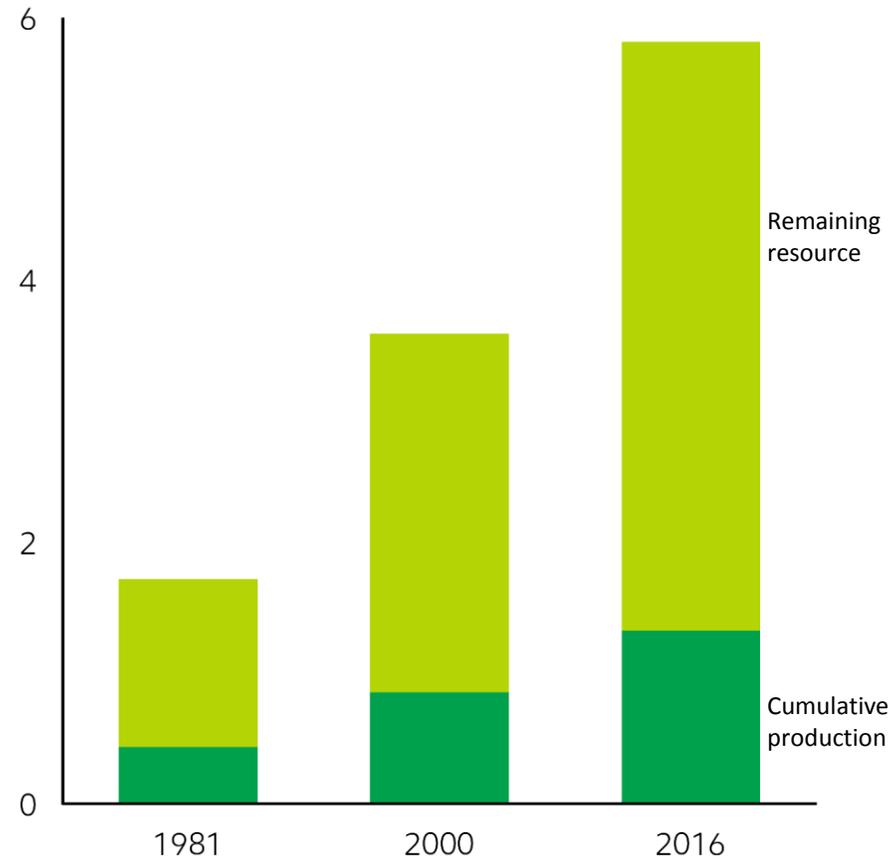
Natural Gas supply by type



Technology Expands Recoverable Resources

Crude & condensate technically recoverable resources

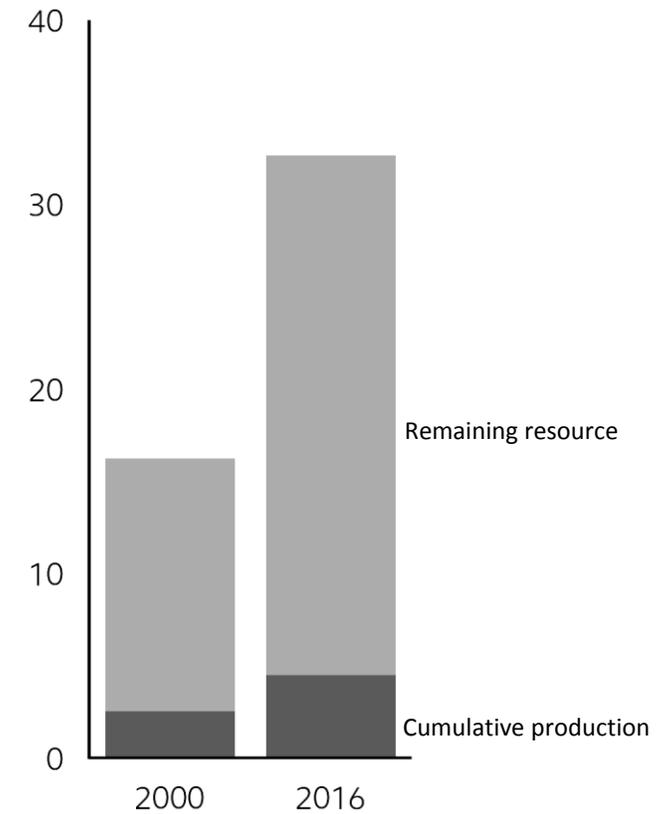
Trillion Barrels



Sources: USGS, IEA

Recoverable gas resources are abundant and widespread

Thousand TCF

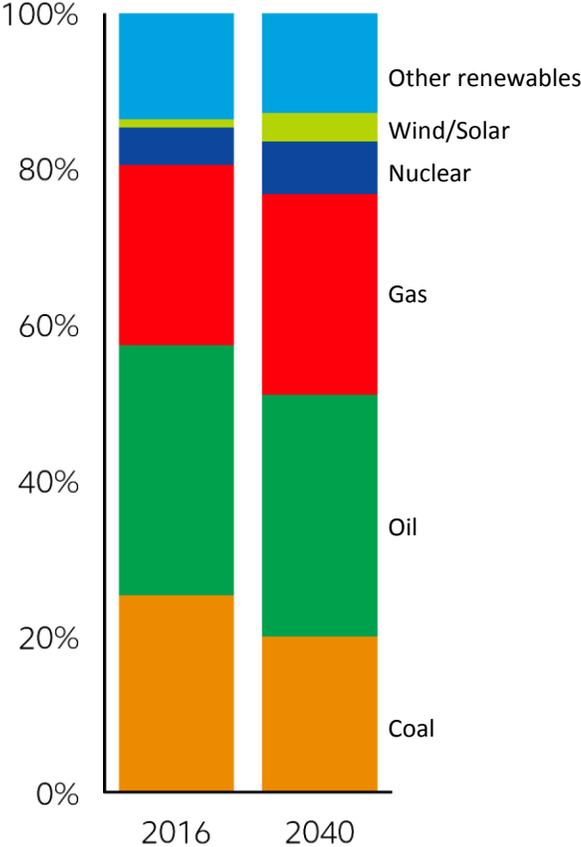


Source: IEA

Energy Mix Shifts to Lower-carbon Fuels

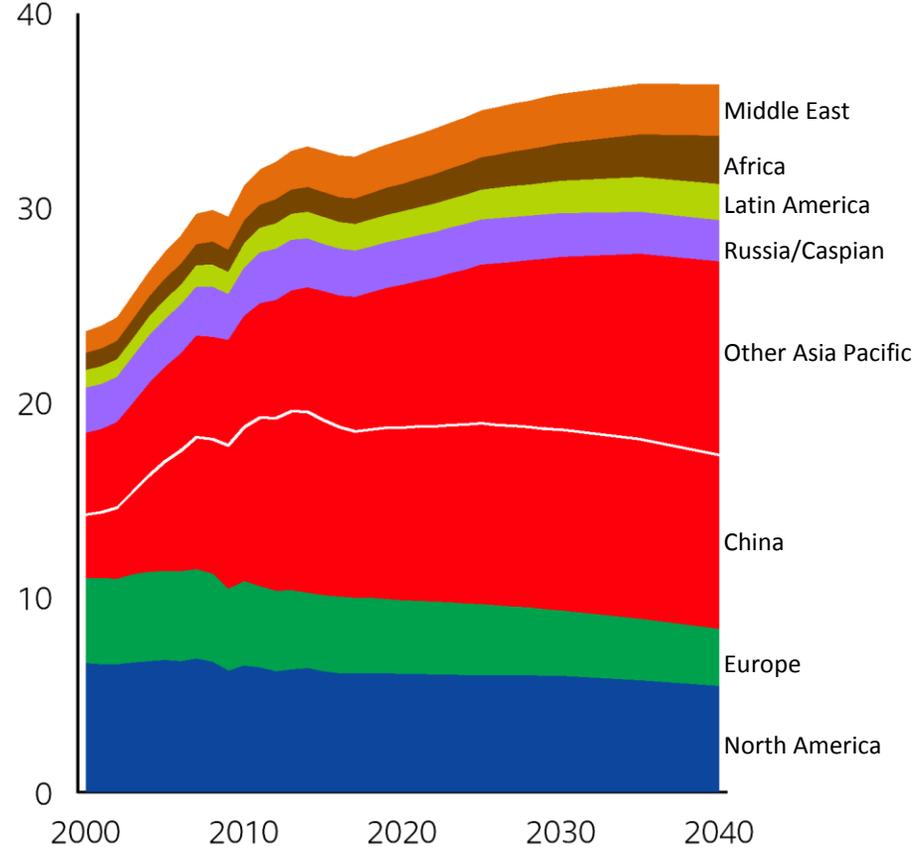
Global energy mix

Percent

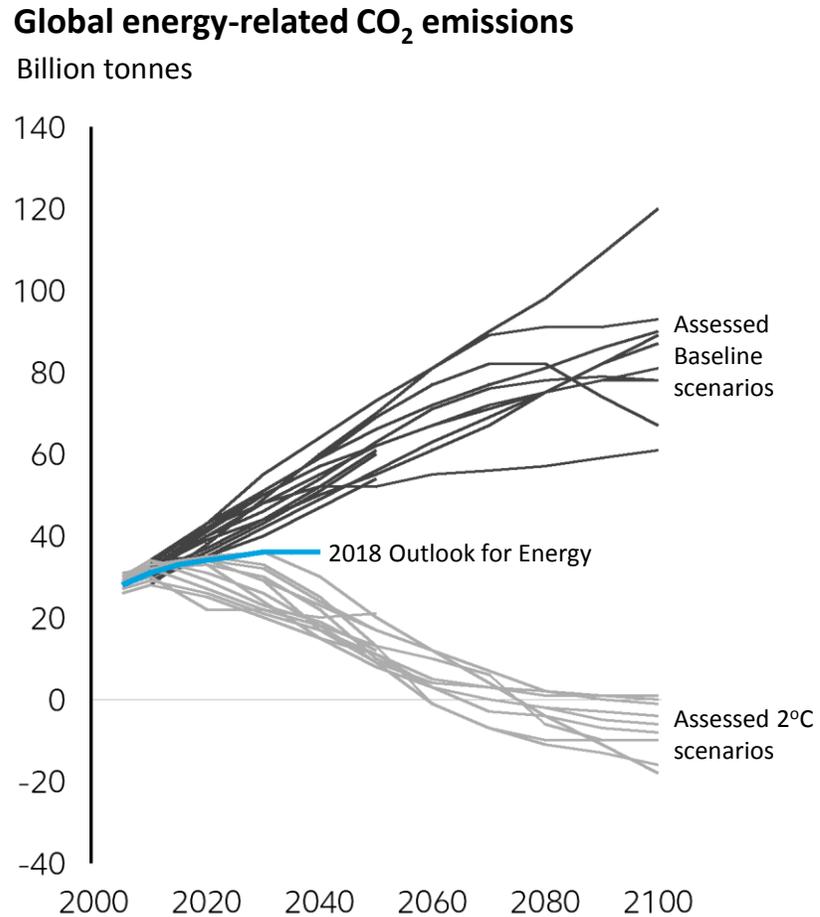


Energy-related CO₂ emissions peak

Billion tonnes

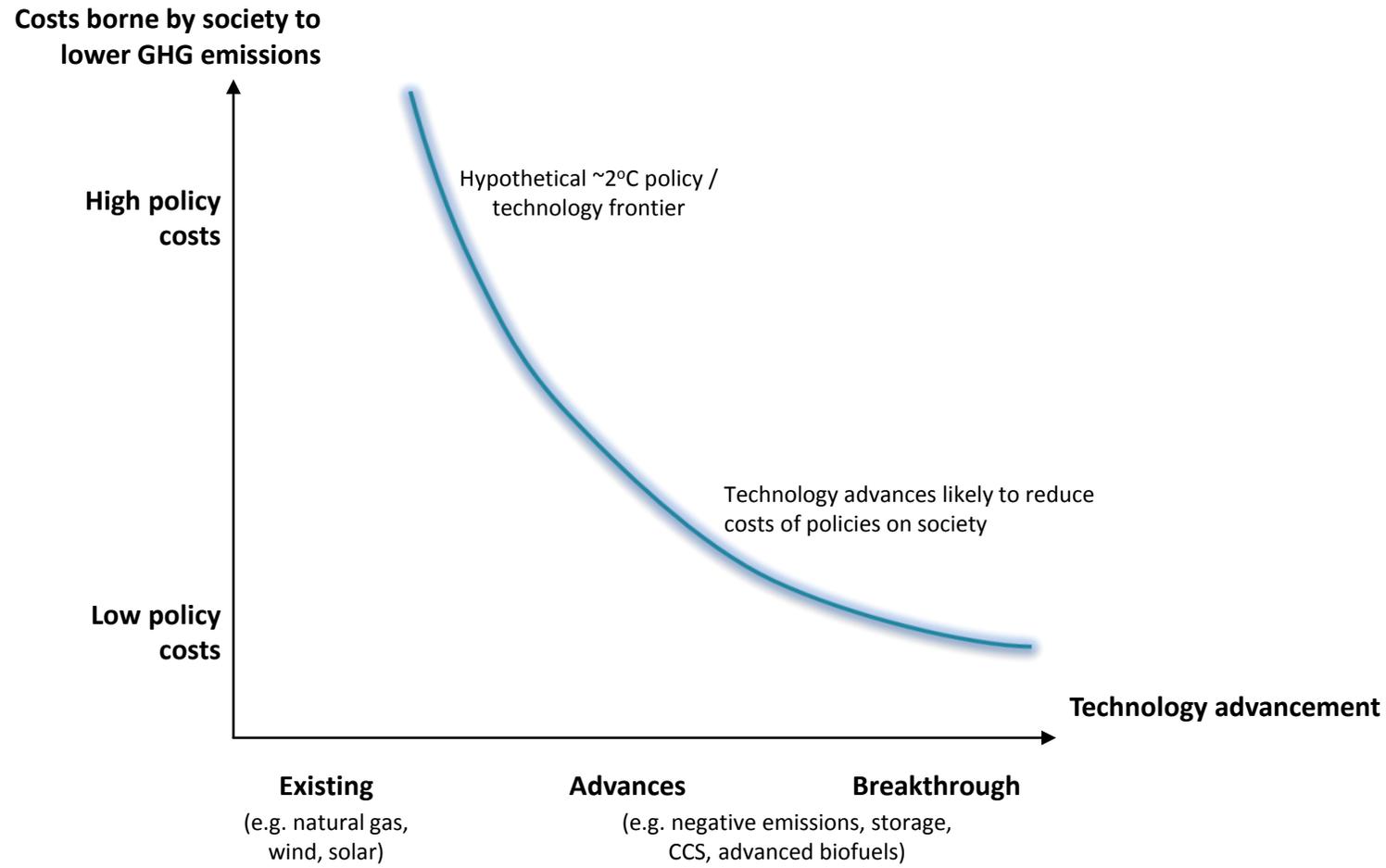


Emissions Vary with Policy Ambition



Baseline and 2°C scenarios based on Stanford EMF27 full technology scenarios
EMF27-FT cases include CO₂ emissions from energy and industrial processes

Technology Key to Reducing Societal Costs of 2°C Pathway

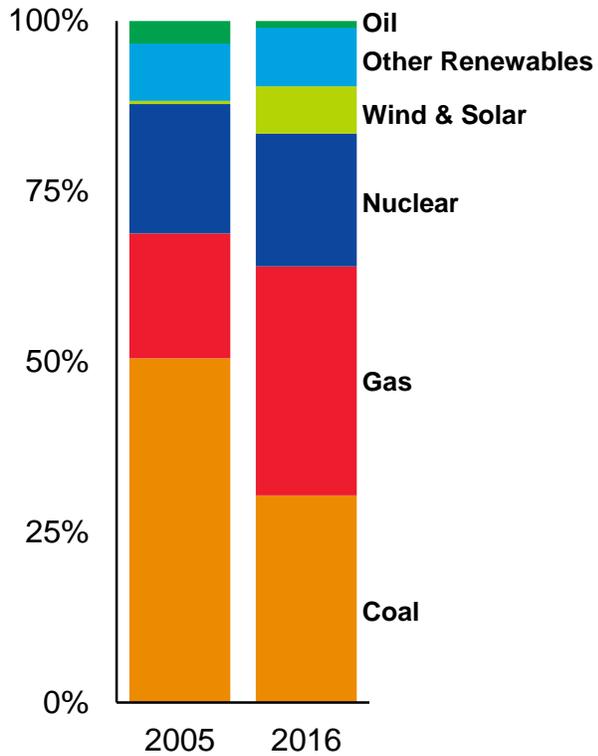


Policy / Technology matrix is illustrative only

Two Paths to CO₂ Reduction

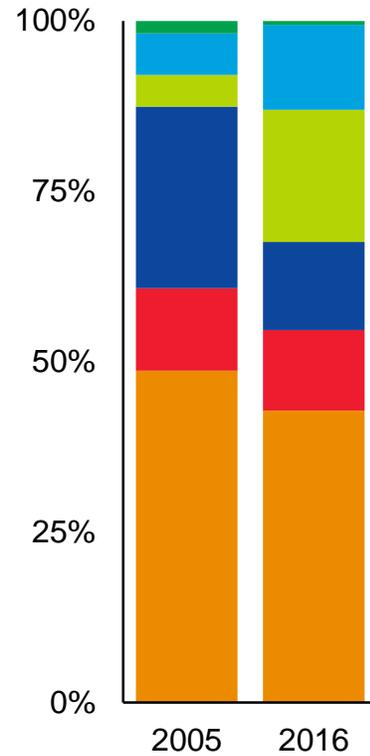
United States Generation Share

Percent



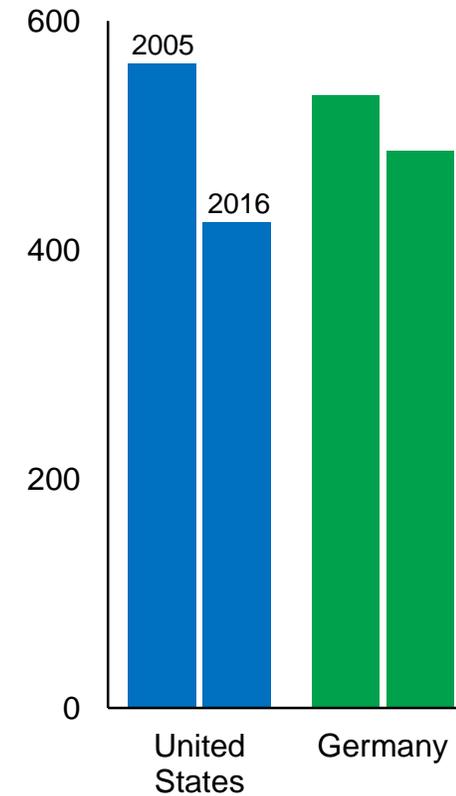
Germany Generation Share

Percent



CO₂ Intensity of Generation

g CO₂/kWh generation



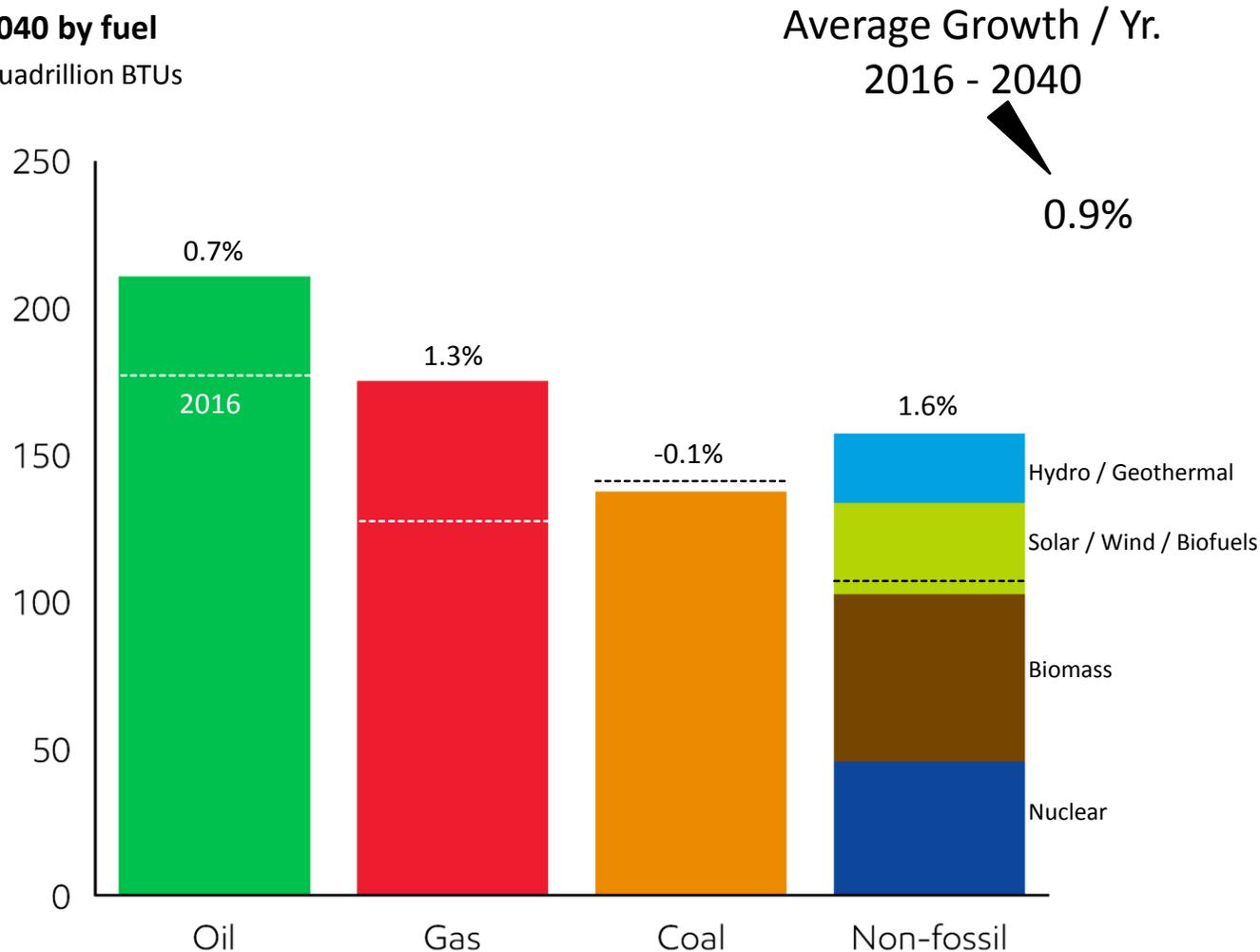
Sources: EIA, UBA

ExxonMobil 2018 Outlook for Energy

Global Demand

2040 by fuel

Quadrillion BTUs



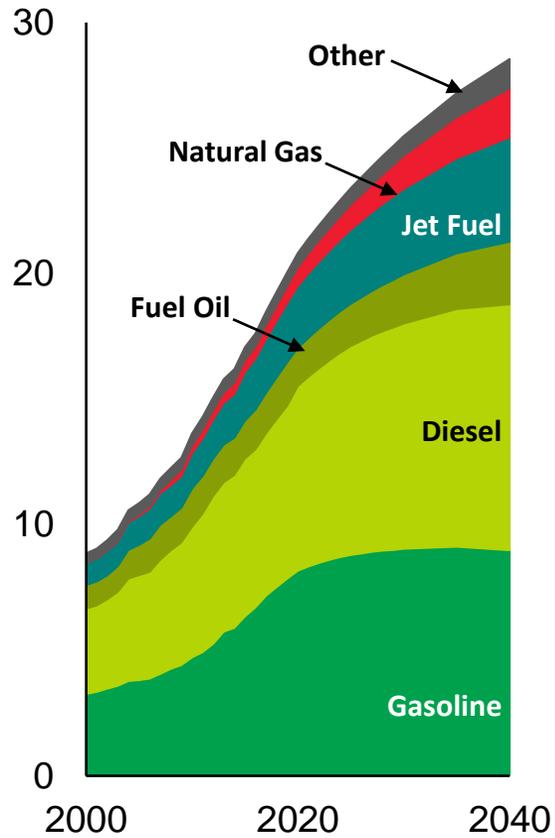
- Fossil fuels remain dominant
- Oil growth driven by commercial transportation and chemicals
- Gas demand led by electricity & industrial needs
- Renewables grow in powergen
- Policy shifts and consumer choices greatest uncertainties
- Technology provides opportunities and manages uncertainty risk

ExxonMobil

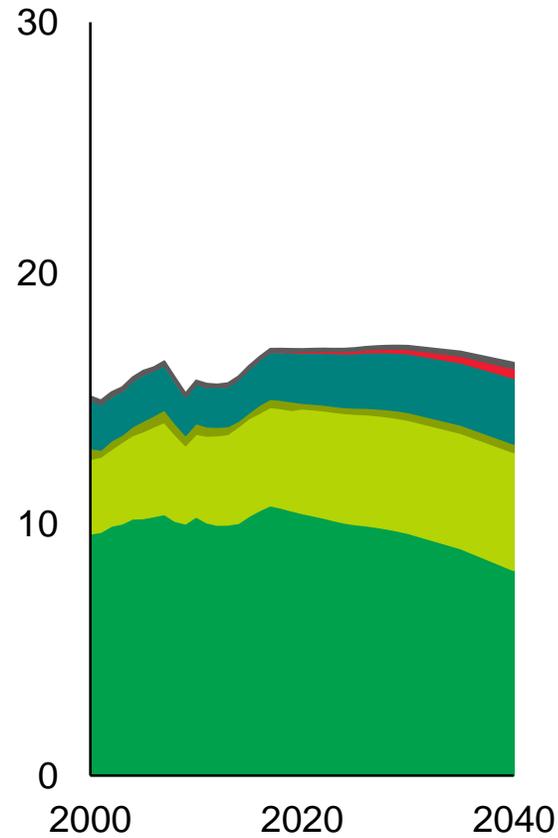
Additional Charts

Transportation Fuel Mix by Region

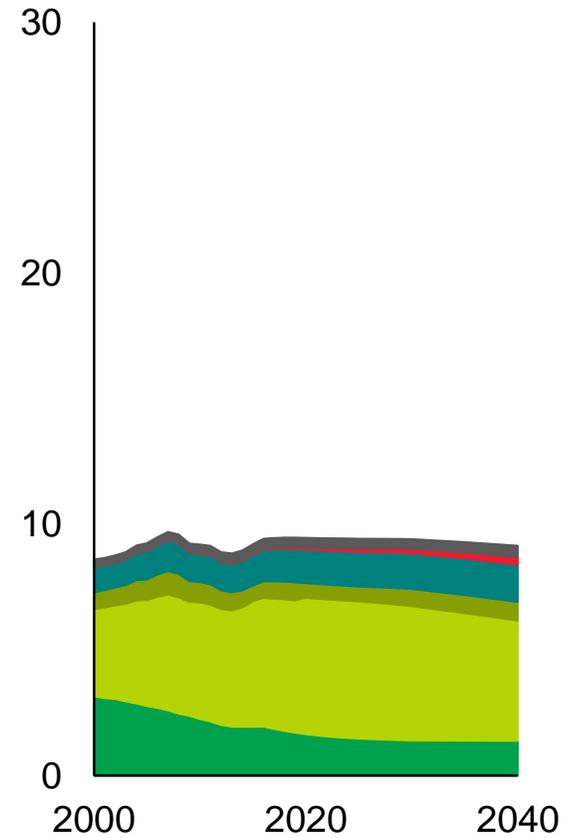
Asia Pacific
MBDOE



North America
MBDOE



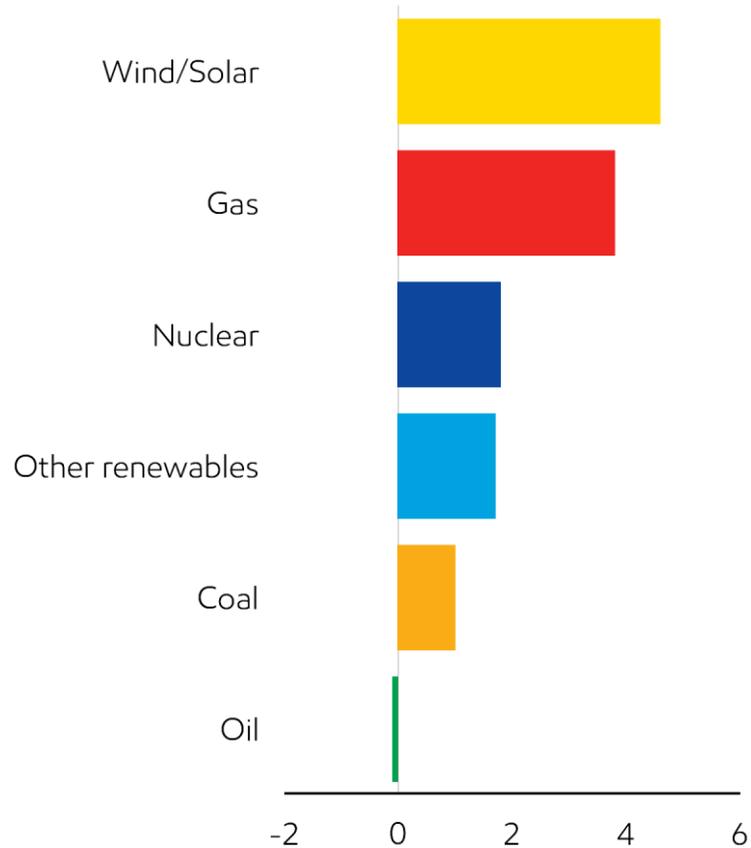
Europe
MBDOE



Renewables and Gas Capture Growth

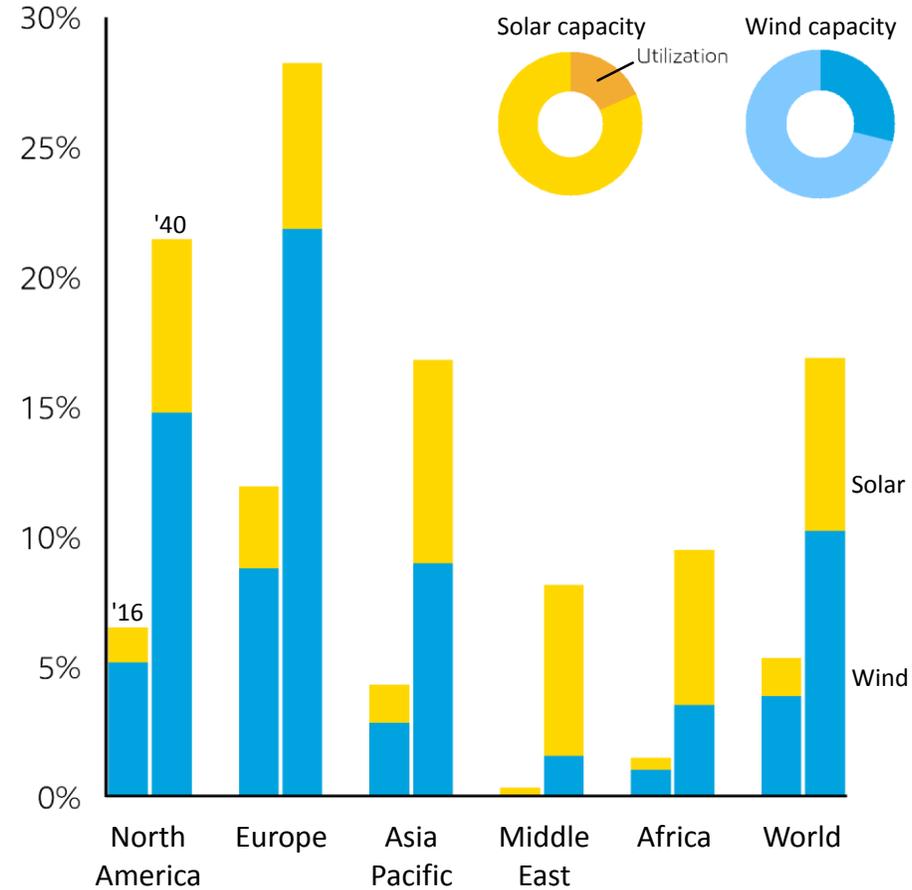
Change in net delivered electricity 2016-2040

Thousand TWh



Wind / Solar share of delivered electricity

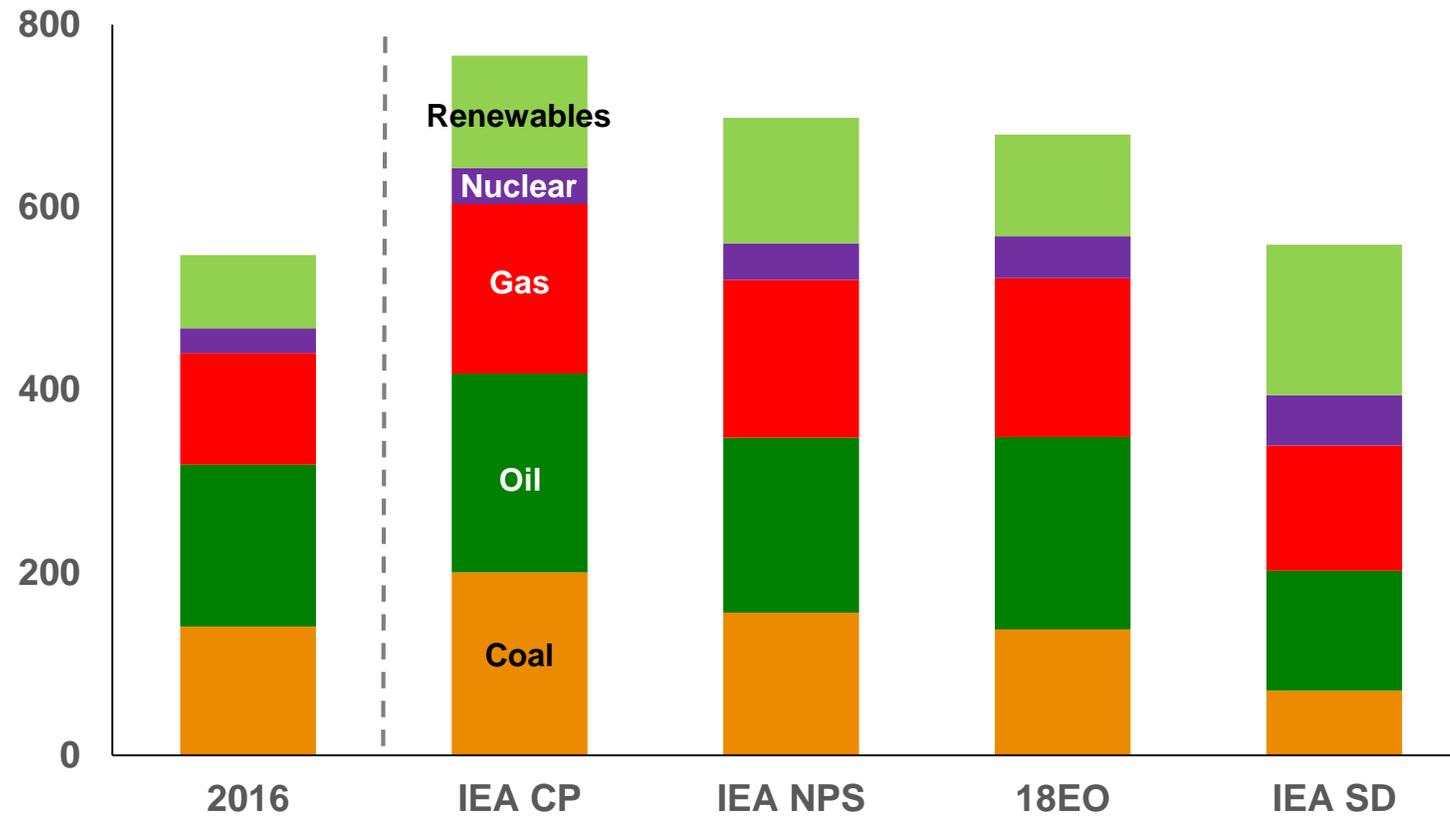
Share of TWh



The Energy Challenge

2040 Global Demand: *Outlook* vs. IEA Scenarios

Quadrillion BTUs



Source: Estimates based on IEA *World Energy Outlook 2017* and *2018 Outlook for Energy*; includes adjustments to common basis

ExxonMobil