

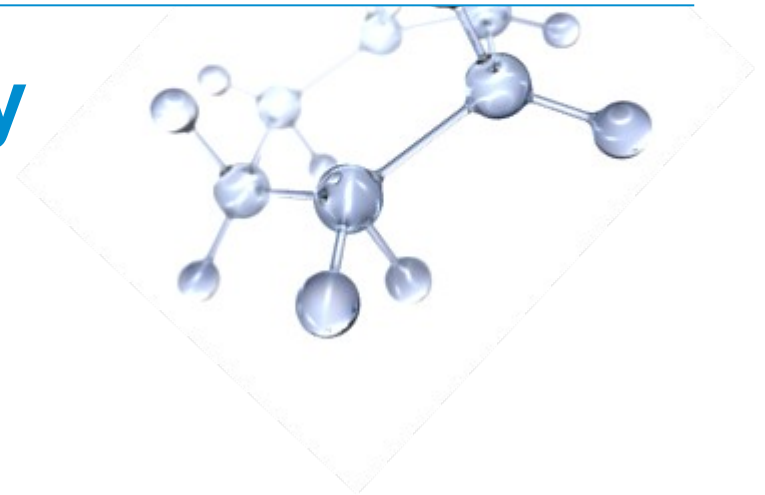
ExxonMobil

Taking on the world's toughest energy challenges.™

The Outlook for Energy a view to 2030

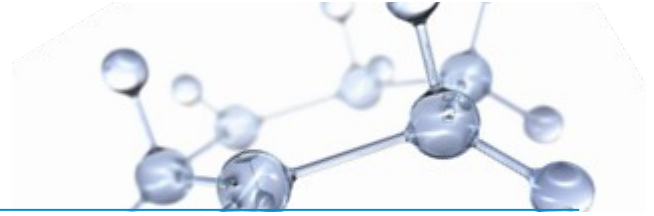
New York Energy Forum
June 16, 2011

Tom Eizember
Planning Manager, Corporate Strategic Planning



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 reproduced without the permission of Exxon Mobil Corporation.

Economic and Energy Evolution

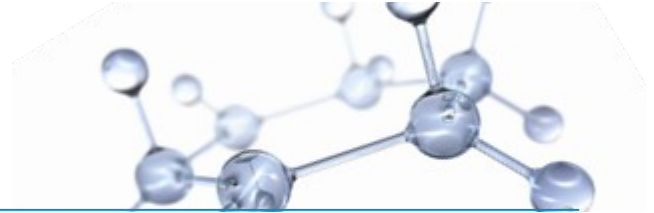


As societies and technologies develop over time...

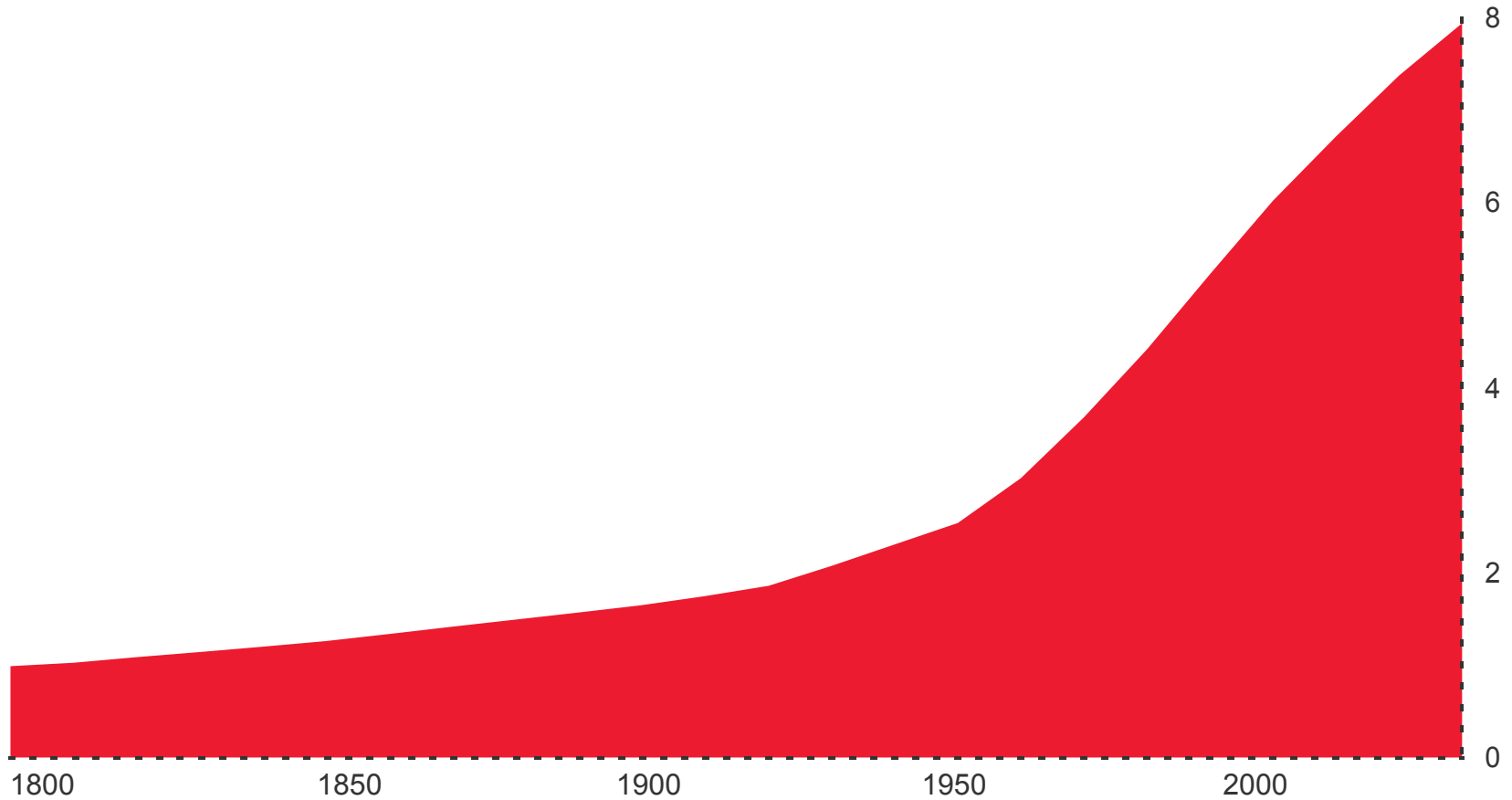


... energy needs evolve as well

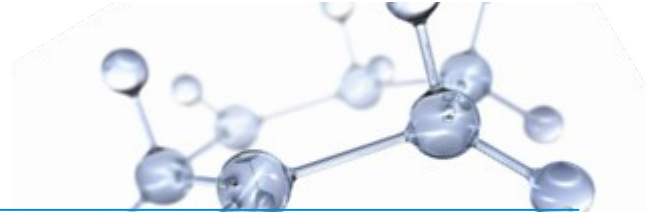
Global Population



World Population
Billion

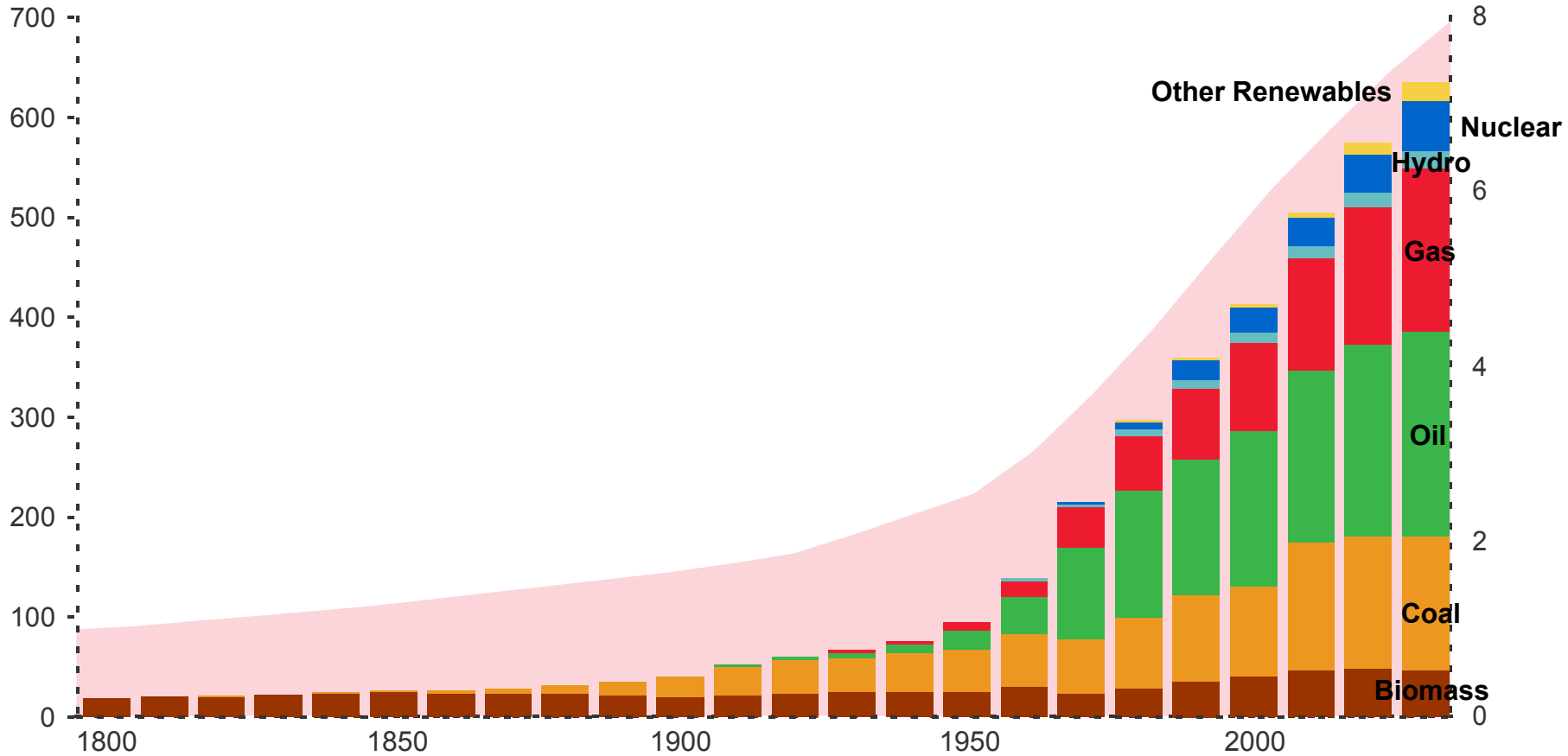


Energy Evolution



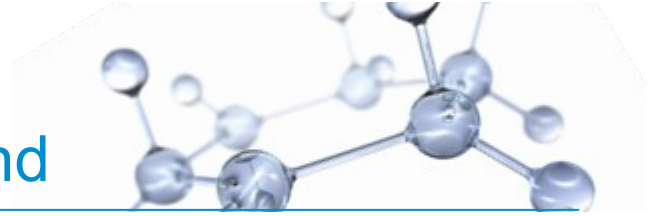
Global Demand By Fuel

Quadrillion BTUs

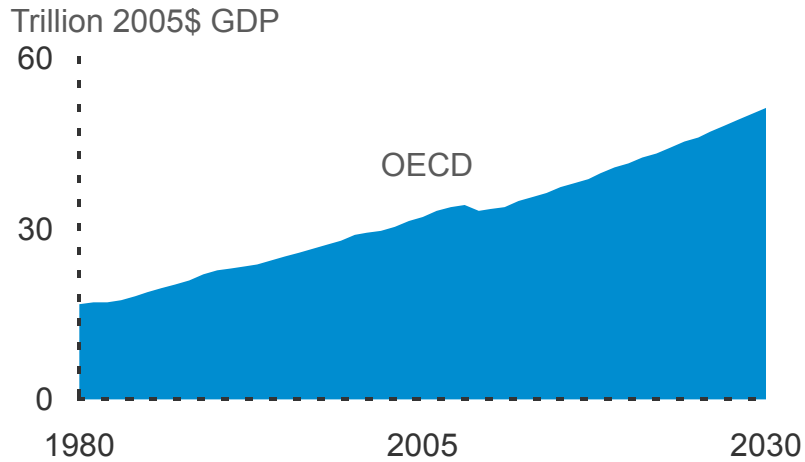


ExxonMobil 2010 Energy Outlook

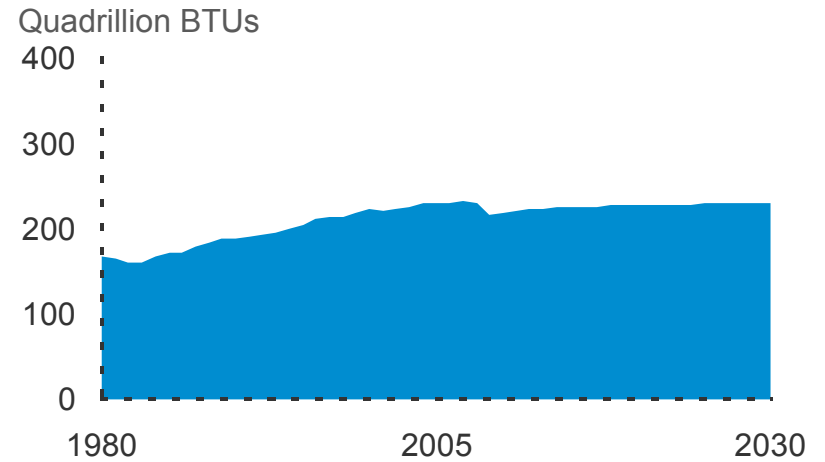
Economic Activity and Energy Demand



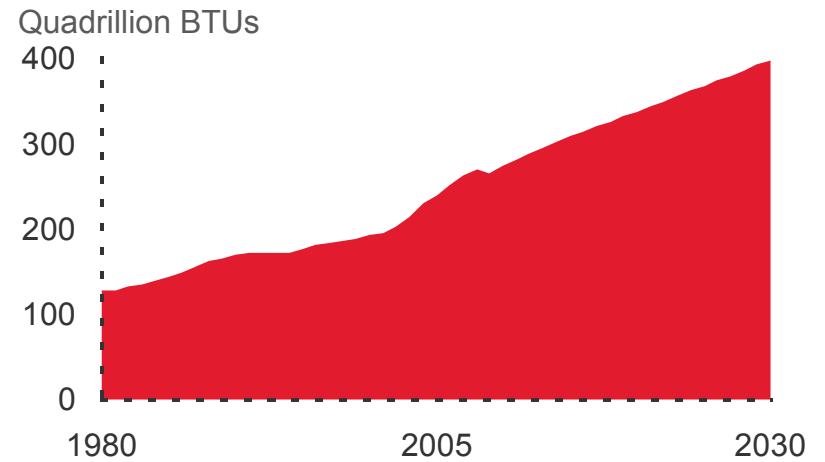
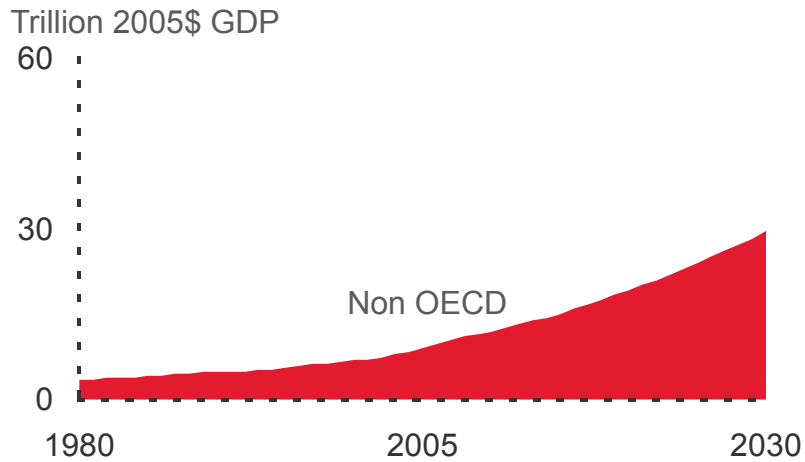
GDP



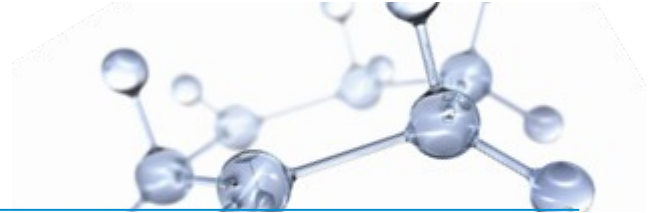
Demand



Non OECD

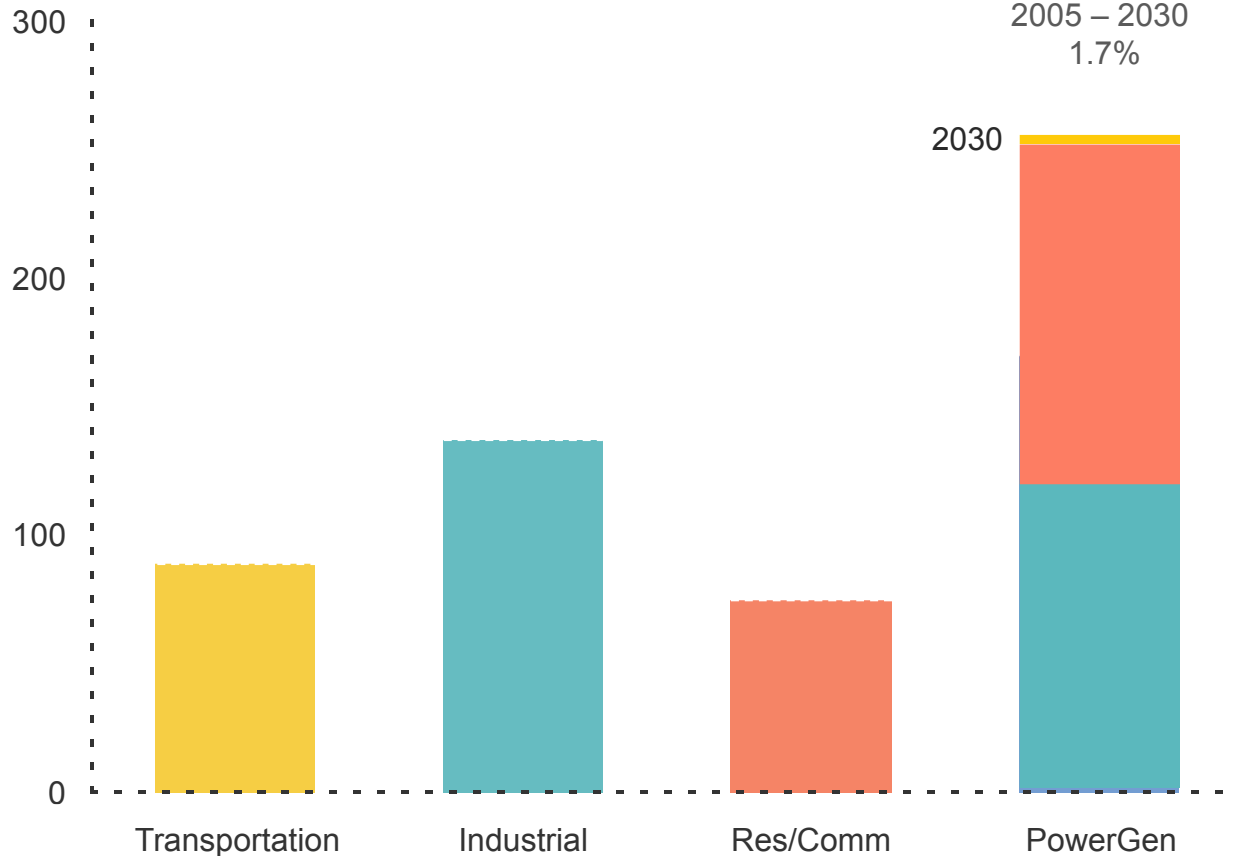


Global Energy Demand

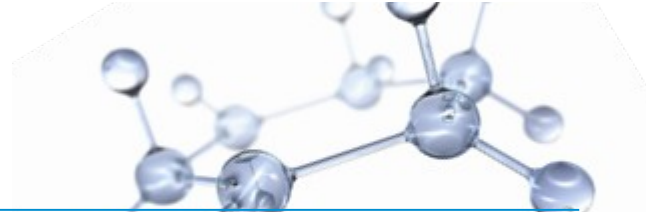


By Sector

Quadrillion BTUs

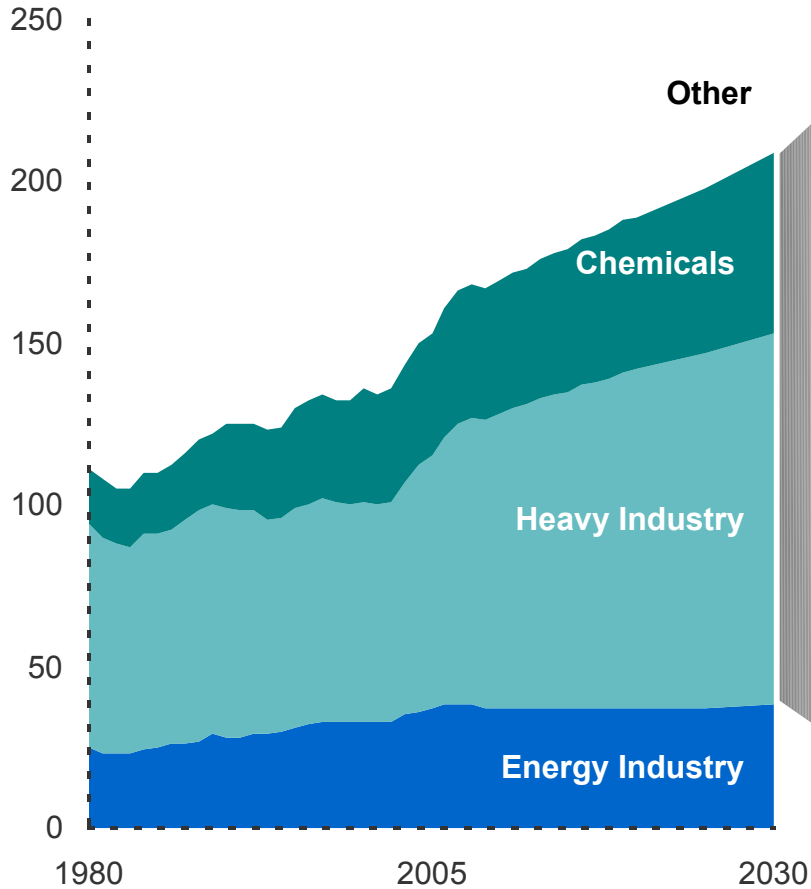


Industry Energy Demand



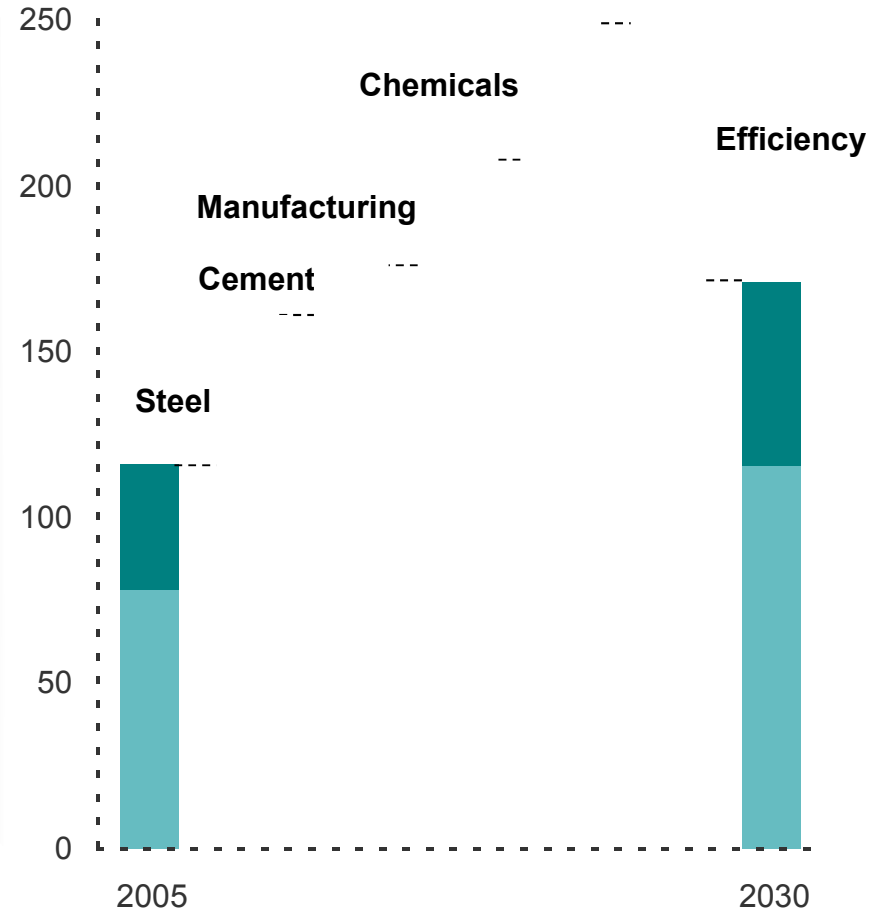
Demand

Quadrillion BTUs



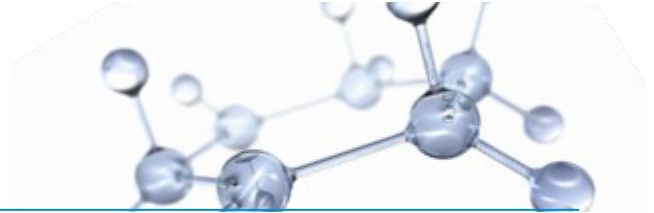
Heavy Industry & Chemicals Demand Changes

Quadrillion BTUs

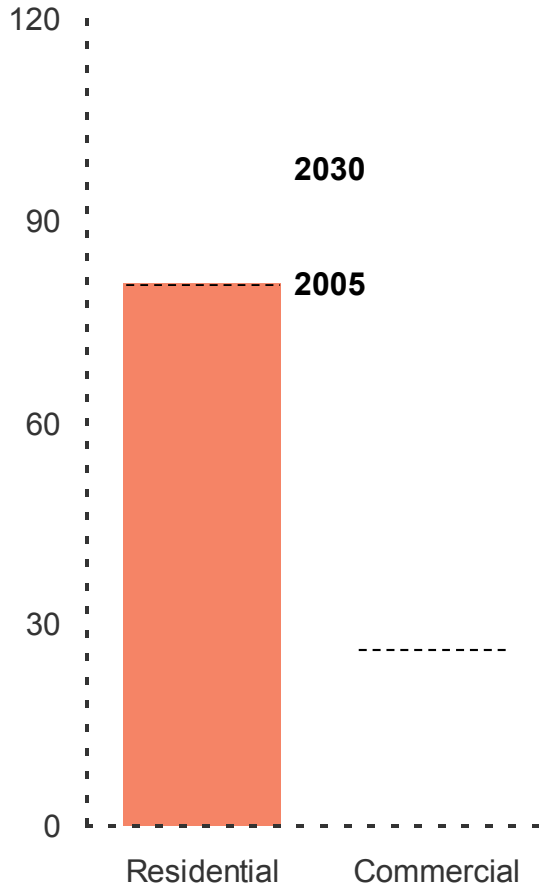


ExxonMobil 2010 Energy Outlook

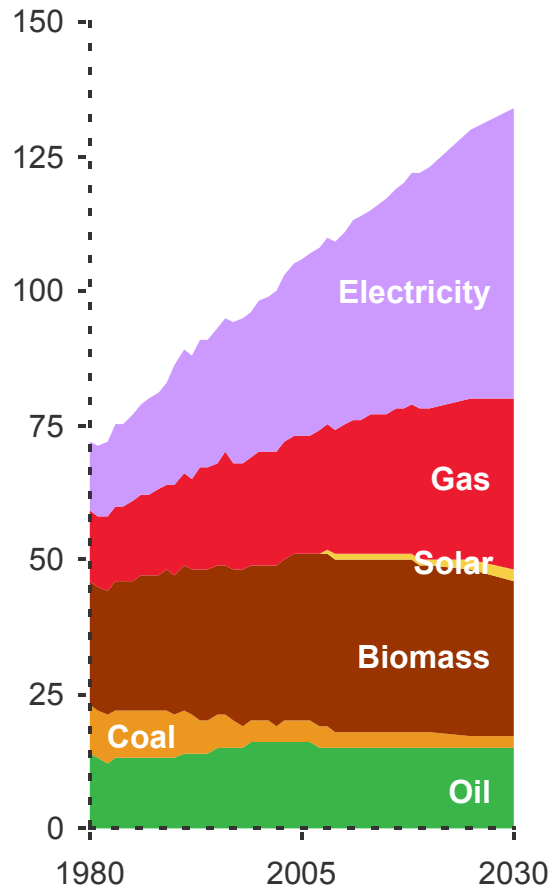
Residential/Commercial Demand



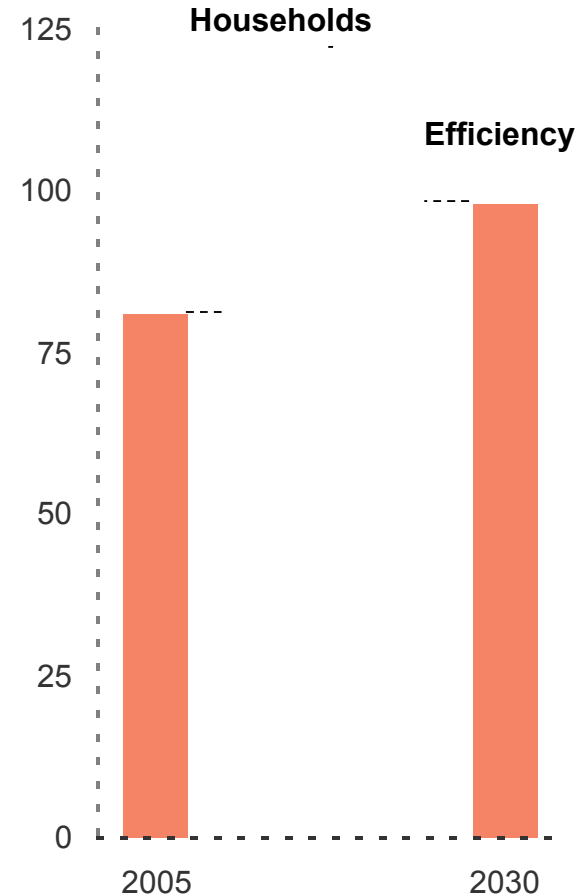
By Sector
Quadrillion BTUs



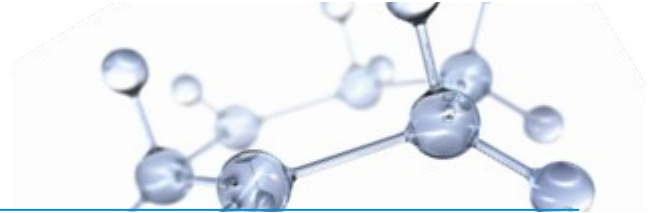
By Fuel
Quadrillion BTUs



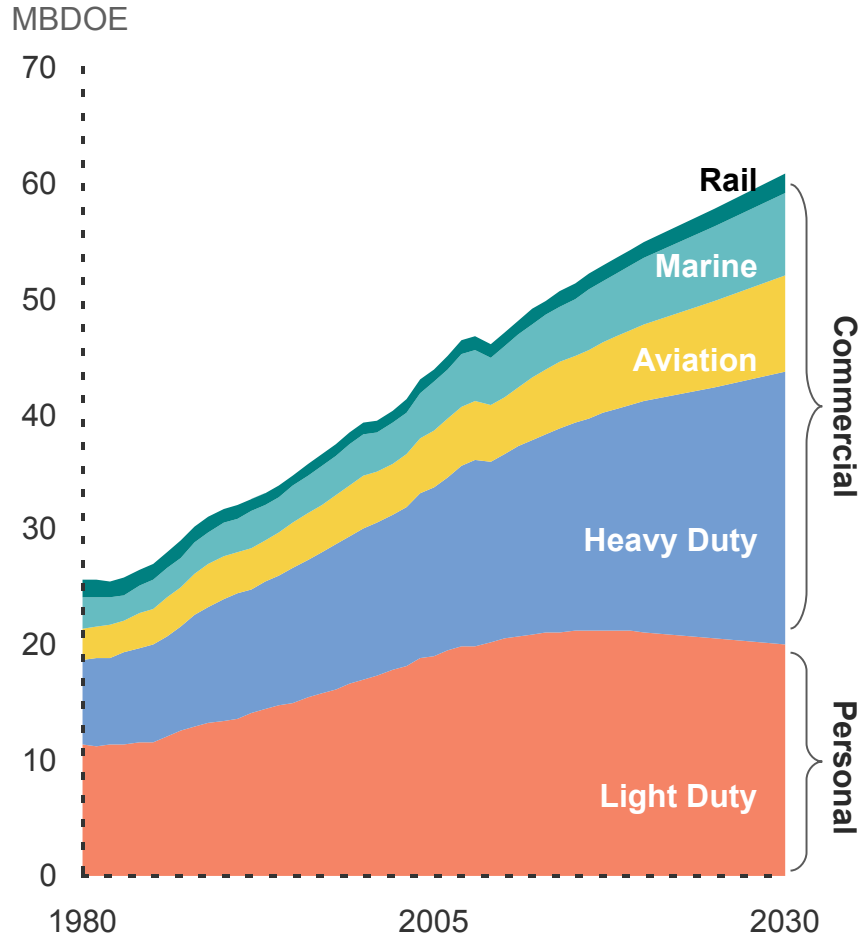
Residential Demand Changes
Quadrillion BTUs



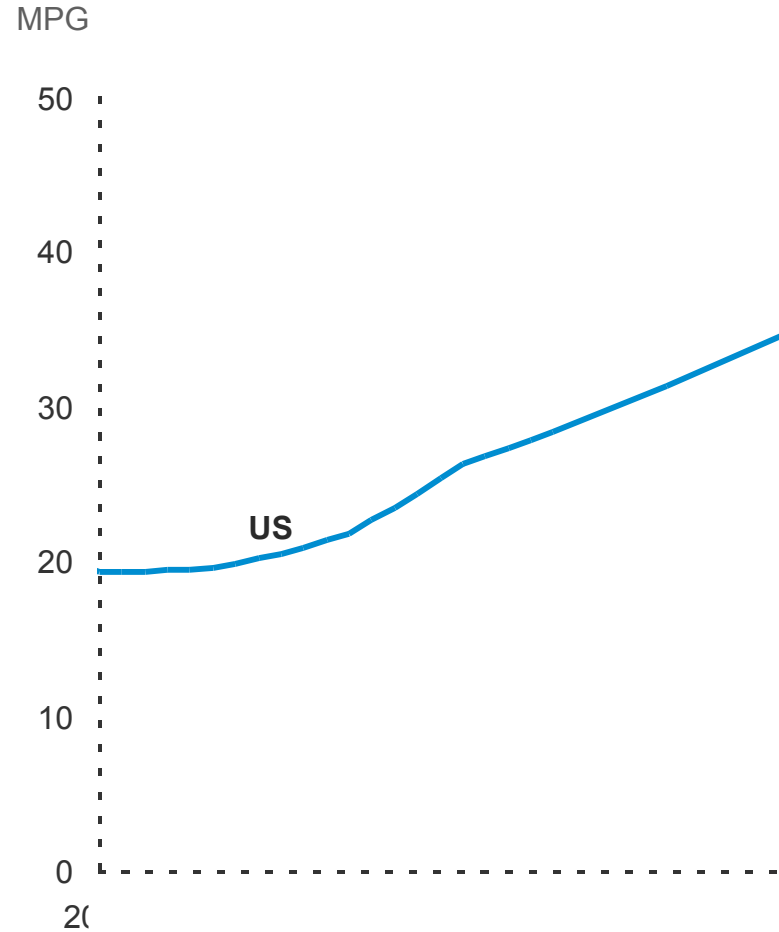
Global Transportation Demand



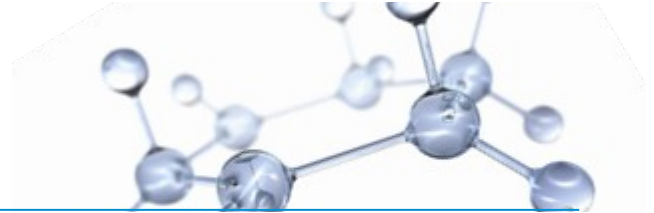
Demand



Average New Car

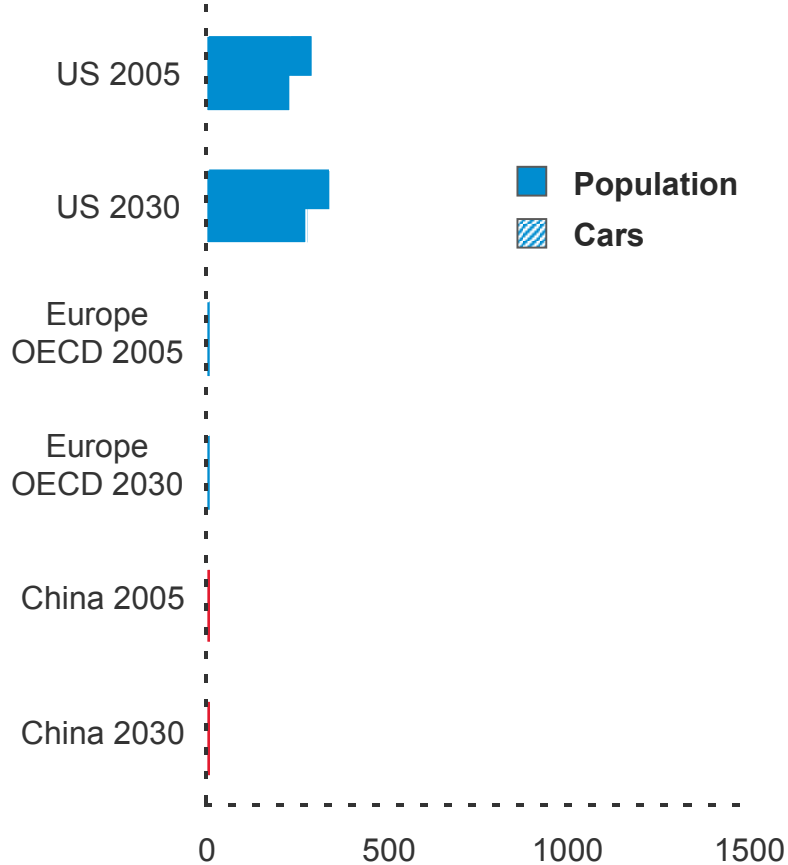


Personal Vehicle Fleet



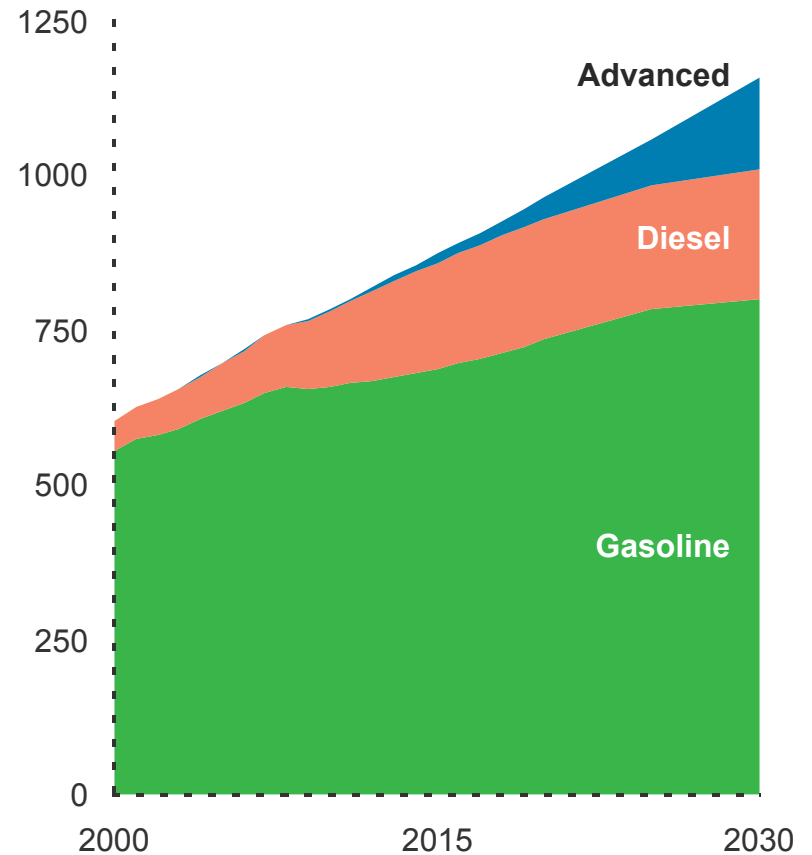
Vehicle Penetration

Cars and Population (millions)

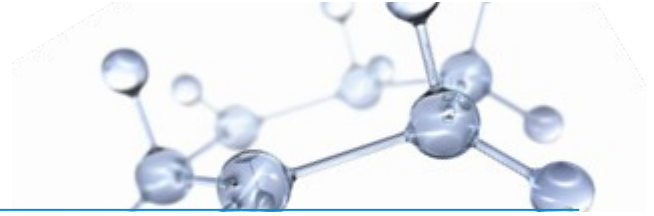


Fleet by Car Type

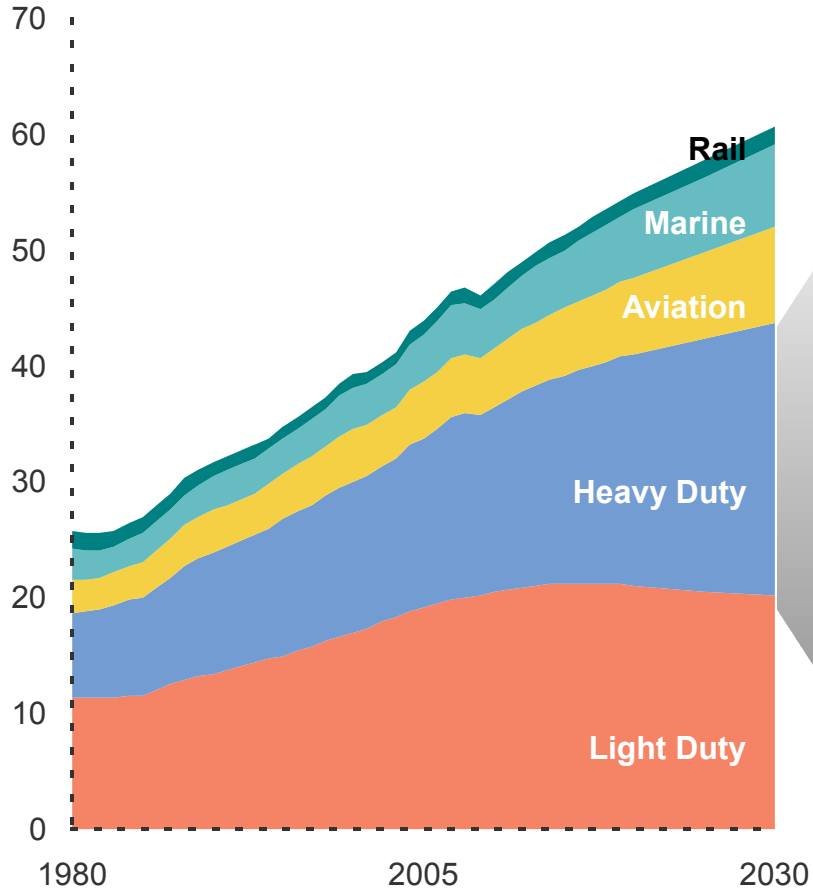
Million Cars



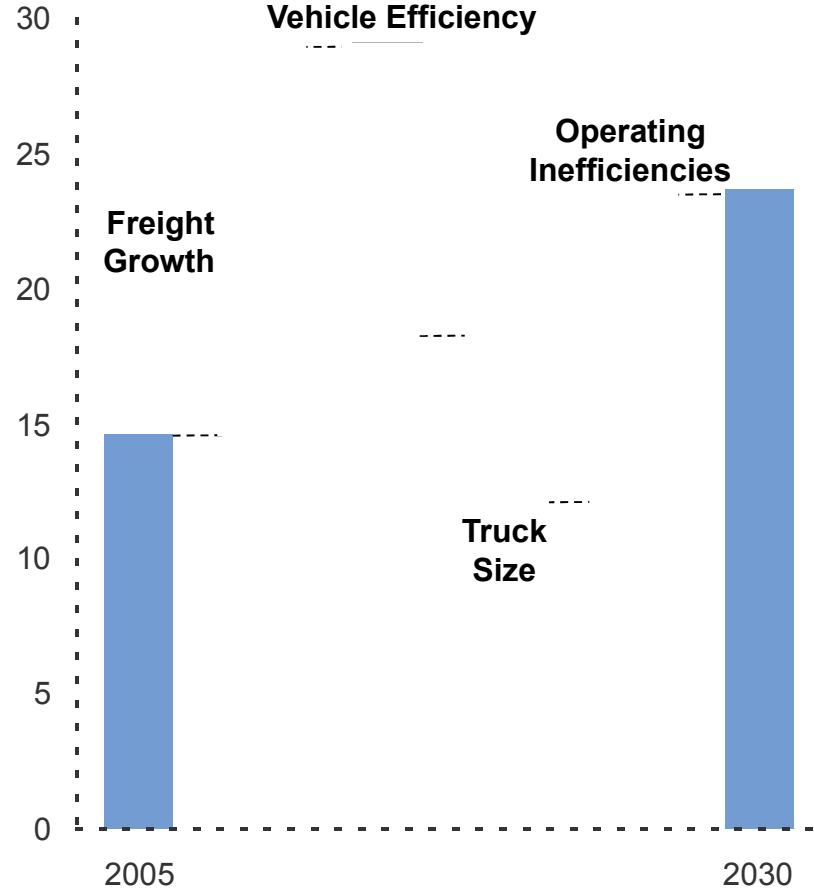
Heavy Duty Demand



Demand
MBDOE

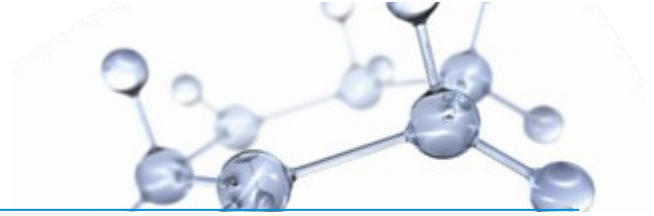


Heavy Duty Demand Changes
MBDOE



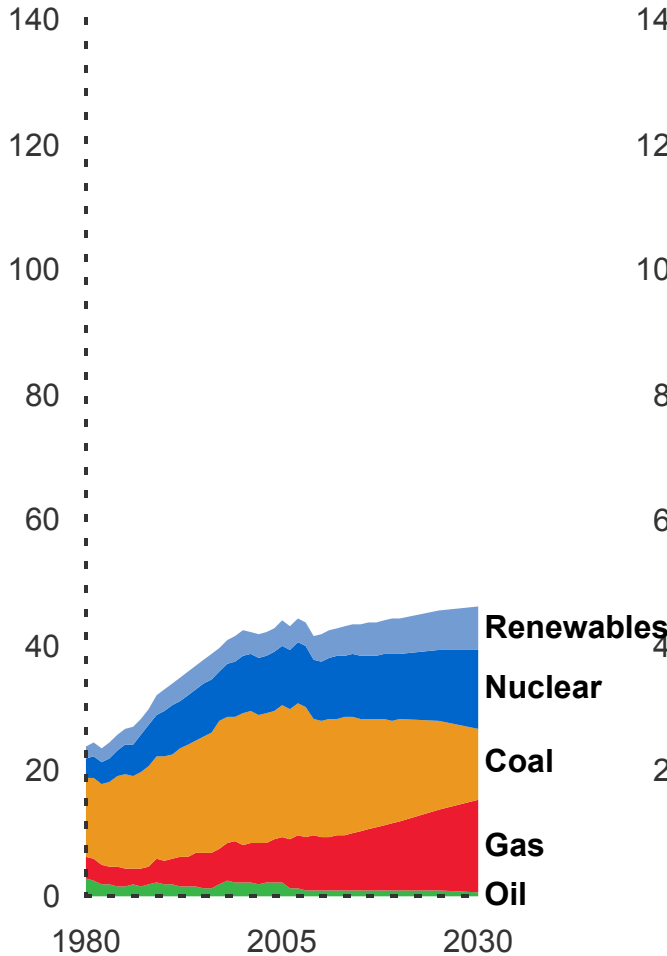
ExxonMobil 2010 Energy Outlook

Regional Fuels for Power



North America

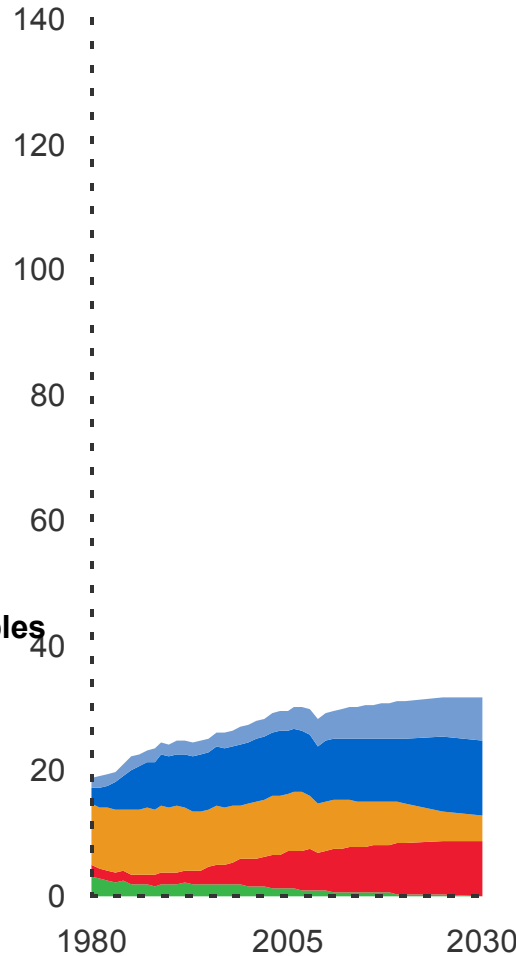
Quadrillion BTUs



ExxonMobil 2010 Energy Outlook

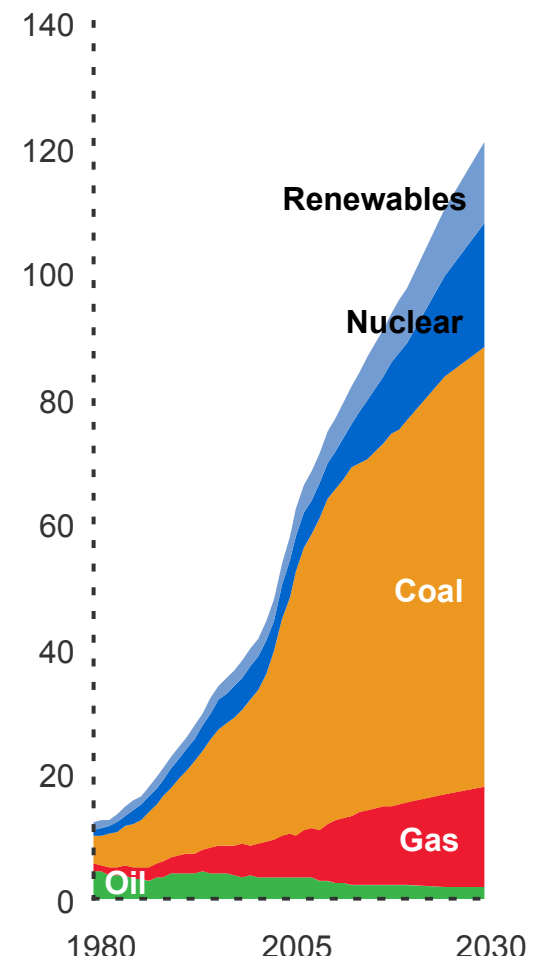
Europe

Quadrillion BTUs



Asia Pacific

Quadrillion BTUs



ExxonMobil

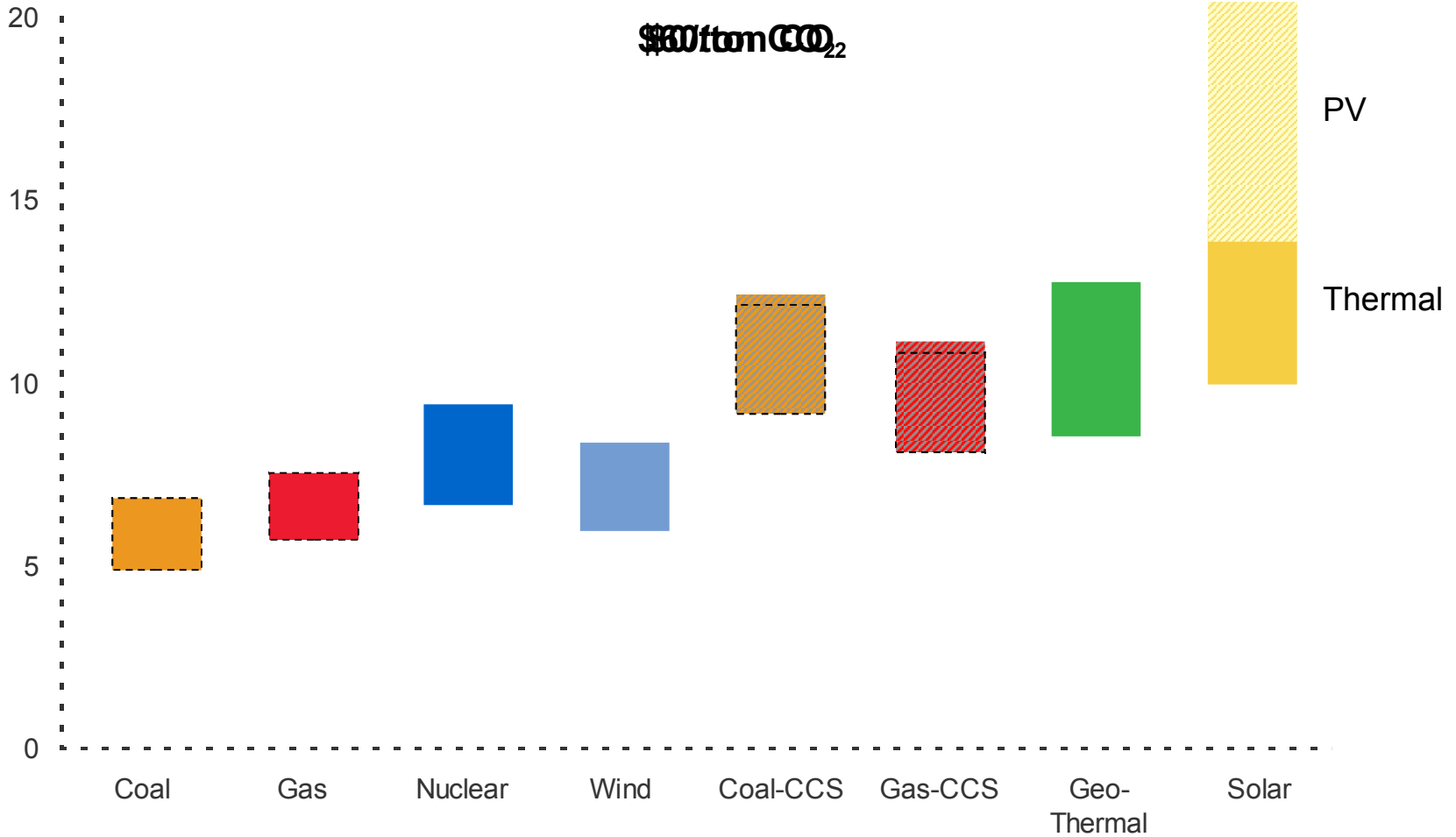
Taking on the world's toughest energy challenges.™

Economic Choices for U.S. Power

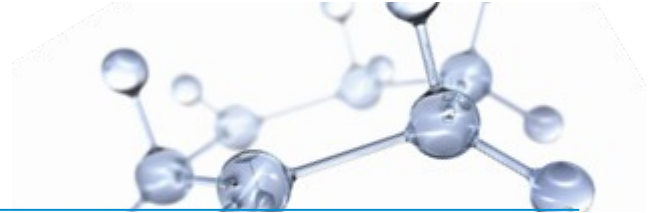


Baseload, Startup 2025

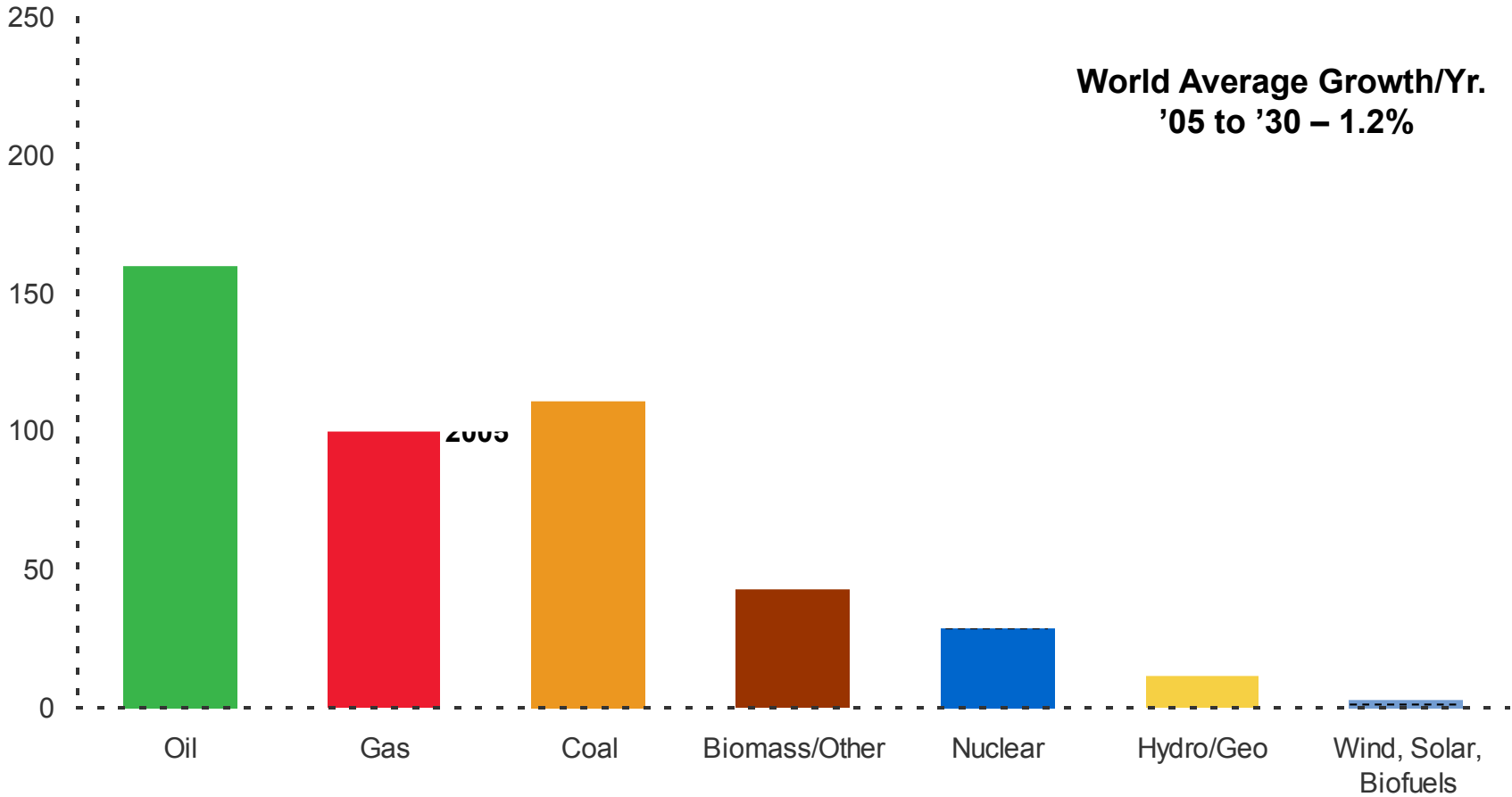
2010 cents/kWh



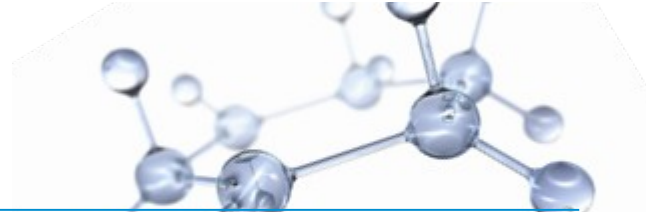
Global Energy Mix



Quadrillion BTUs

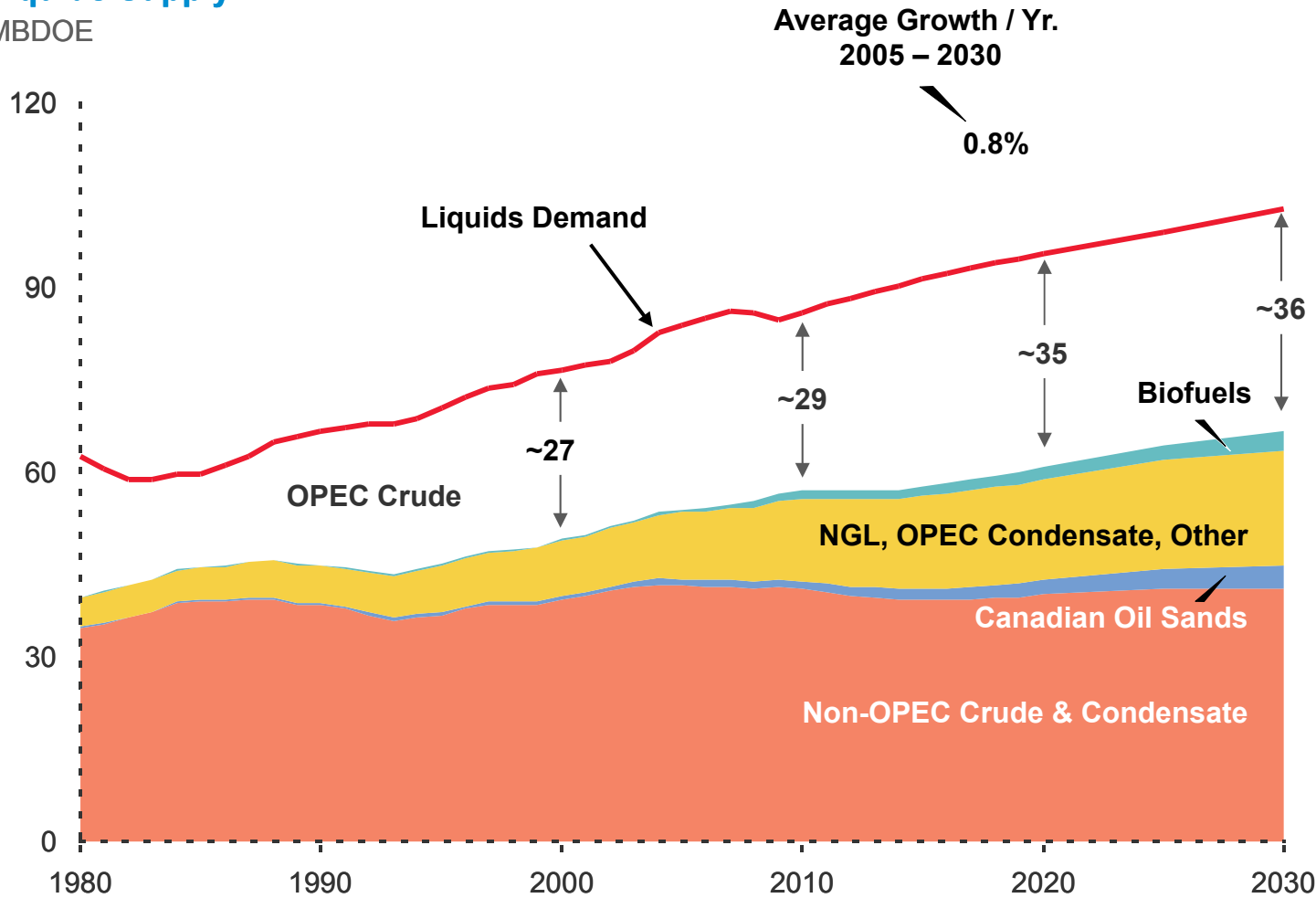


Global Liquids Supply

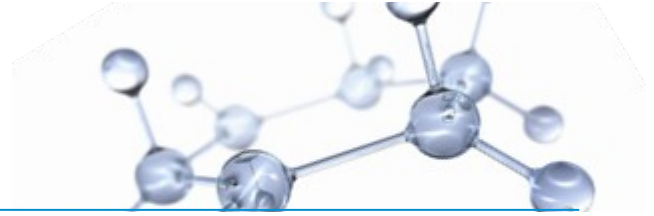


Liquids Supply

MBDOE

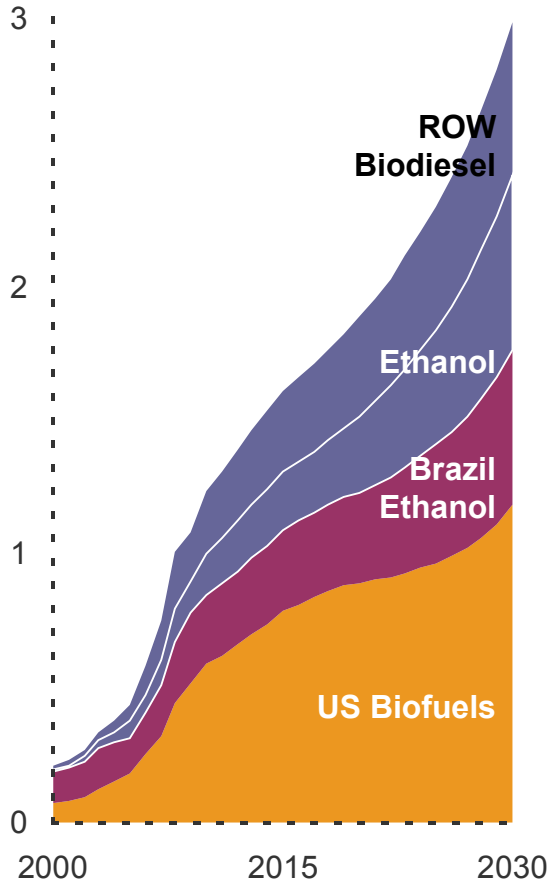


Liquid Biofuels



By Region

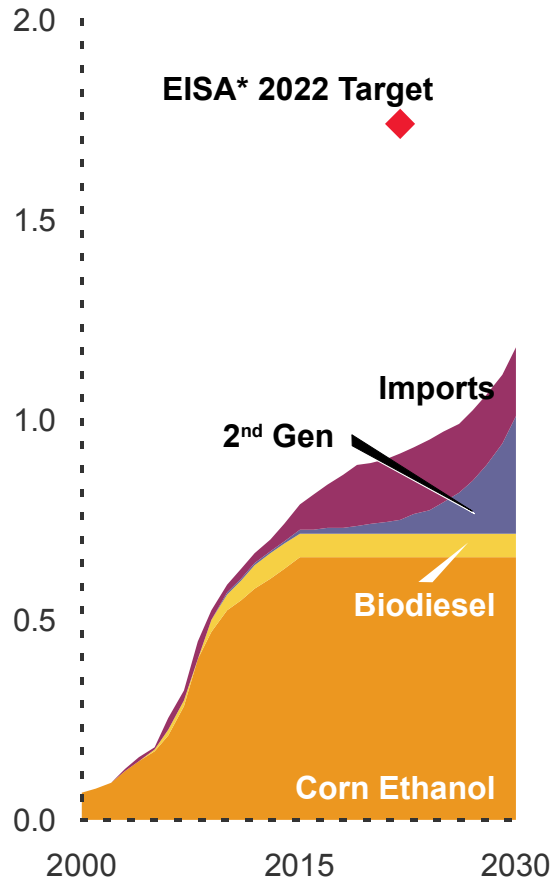
MBDOE



ExxonMobil 2010 Energy Outlook

US Supply

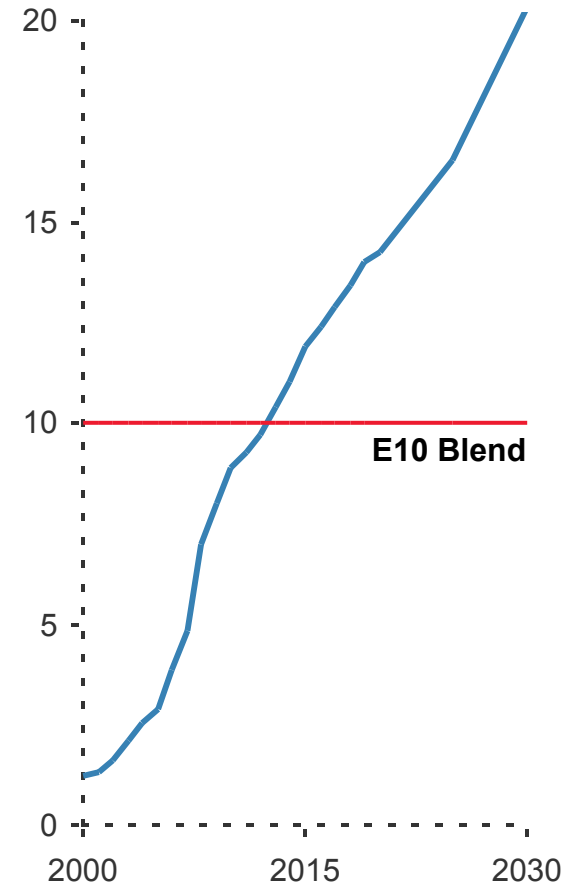
MBDOE



16

US Ethanol vs. Gasoline

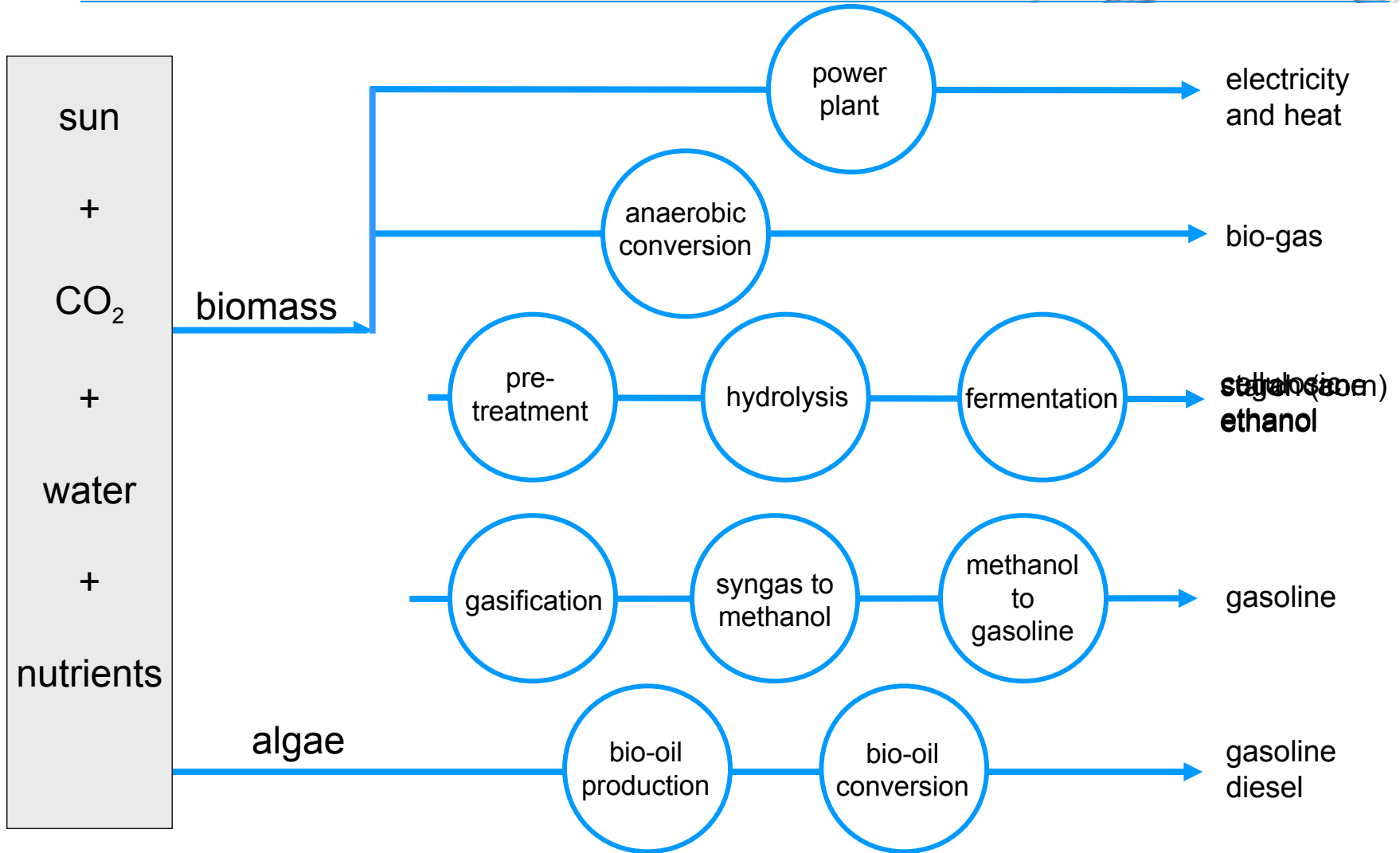
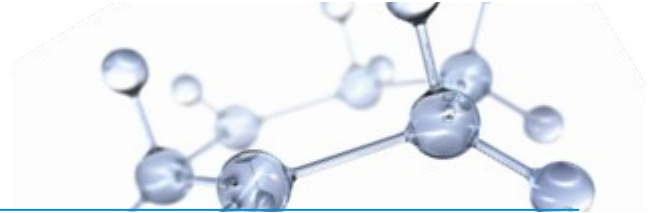
% Volume



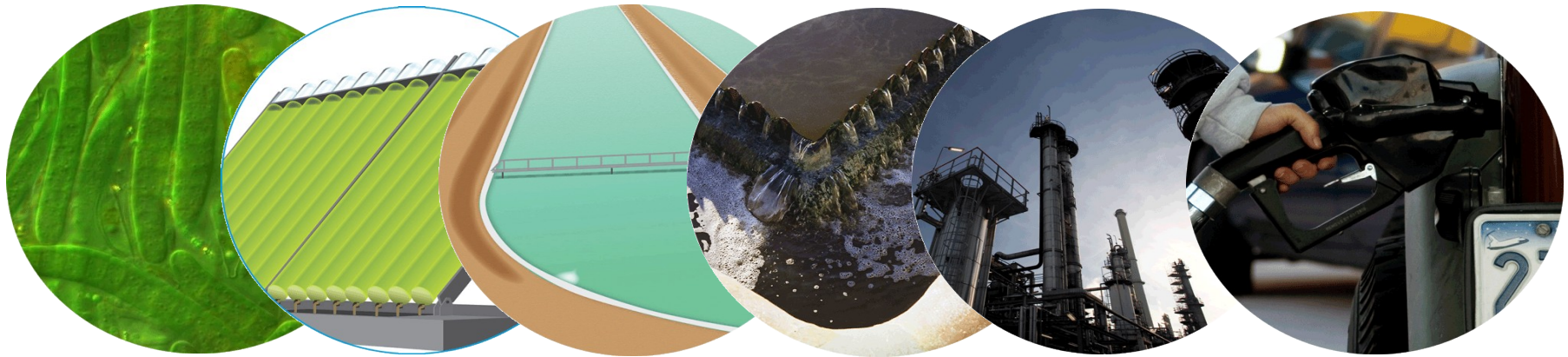
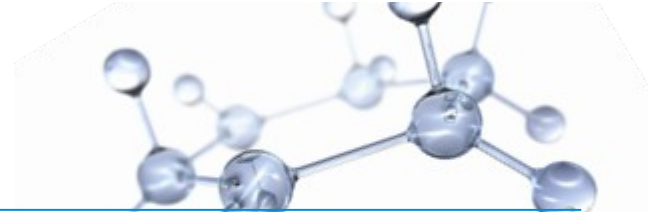
ExxonMobil
Taking on the world's toughest energy challenges.™

*EISA: Energy Independence and Security Act

Bioenergy Pathways

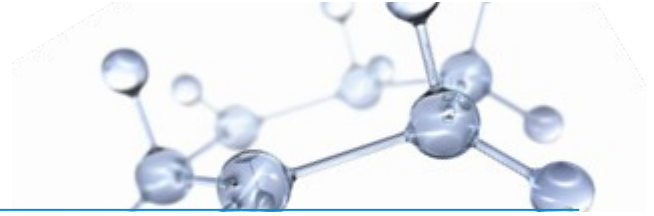


Algae Biofuel Challenges



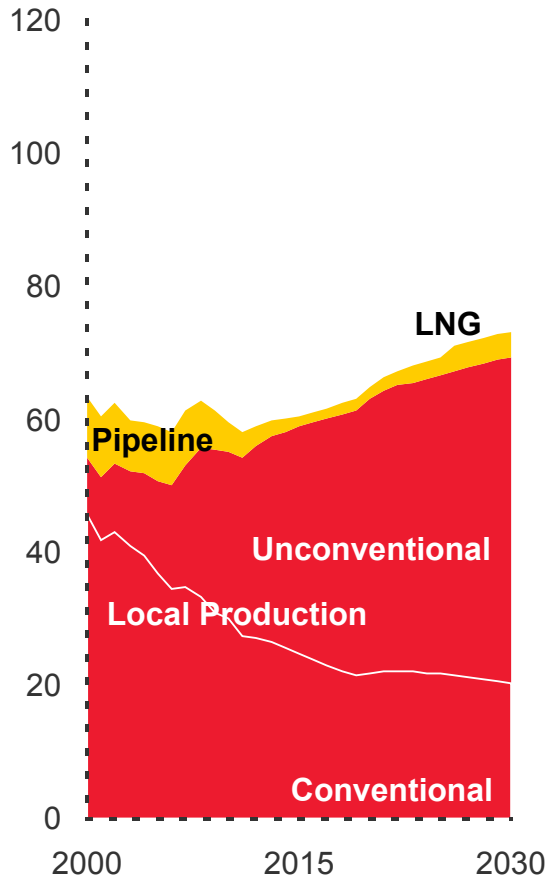
- Identify and develop higher yielding, stable, cost-effective strains
- Determine best production systems
- Develop full scale transportation production of systems
- GHG mitigation benefits

Natural Gas Supply



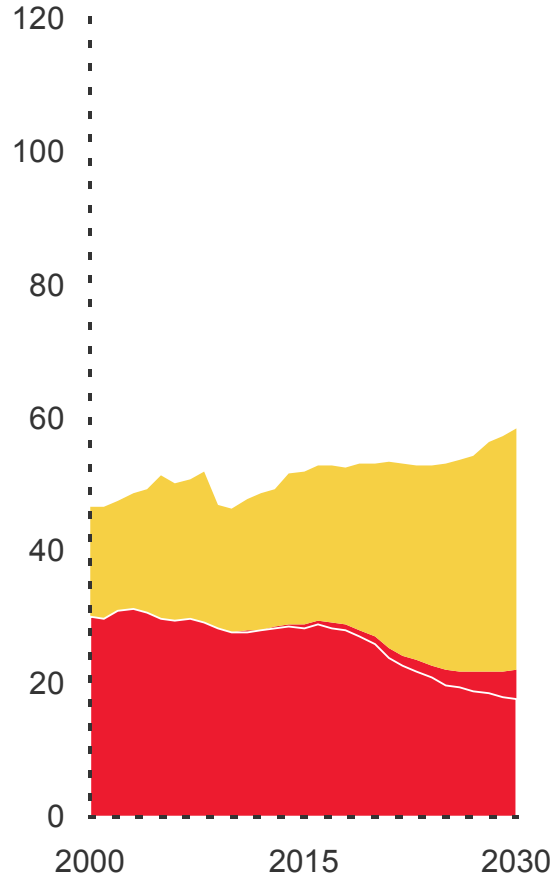
United States

BCFD



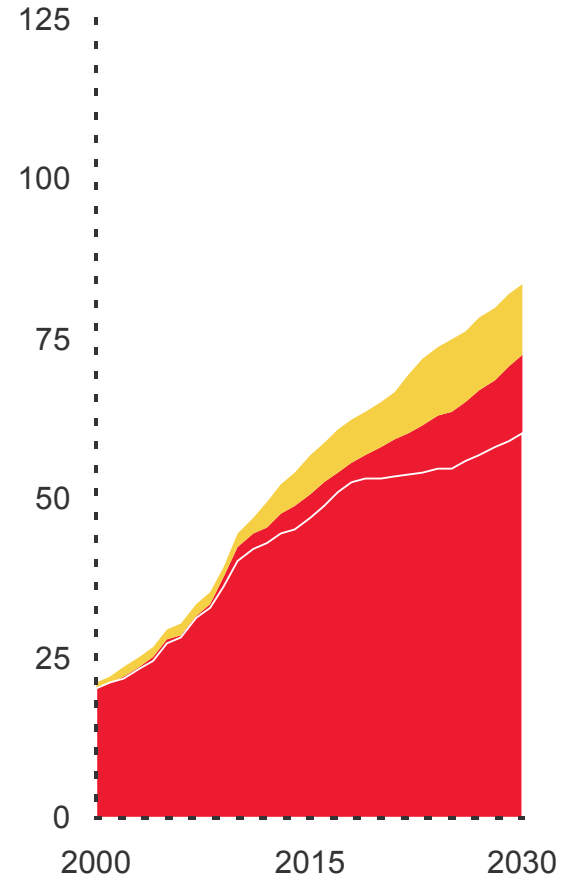
Europe

BCFD



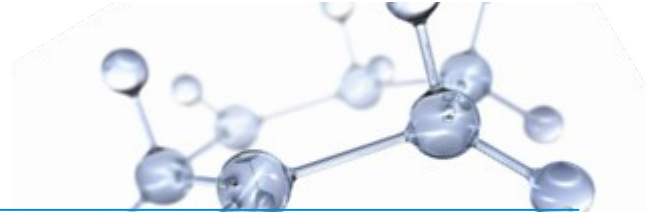
Asia Pacific

BCFD



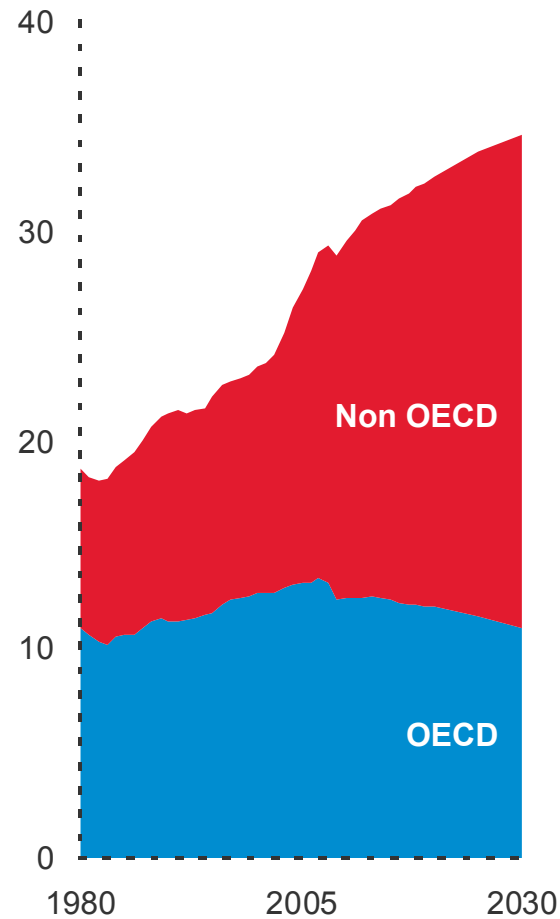
ExxonMobil 2010 Energy Outlook

CO₂ Emissions



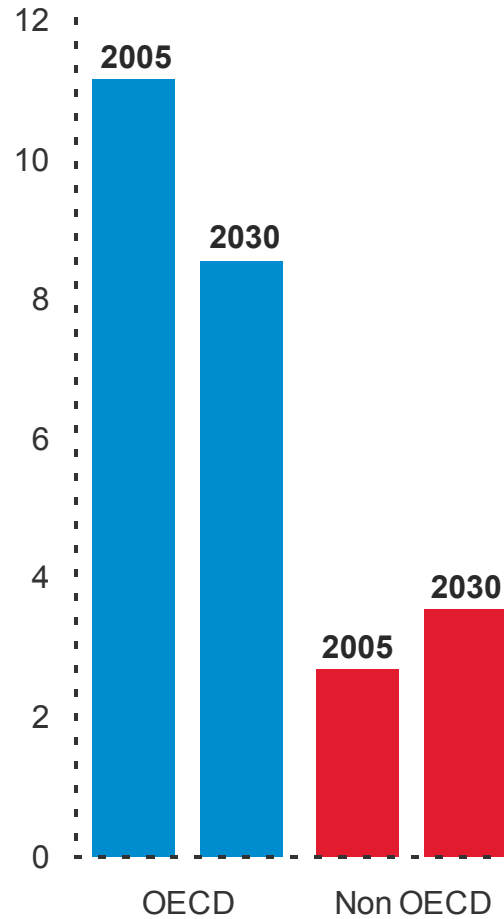
CO₂ Emissions

Billion Tons



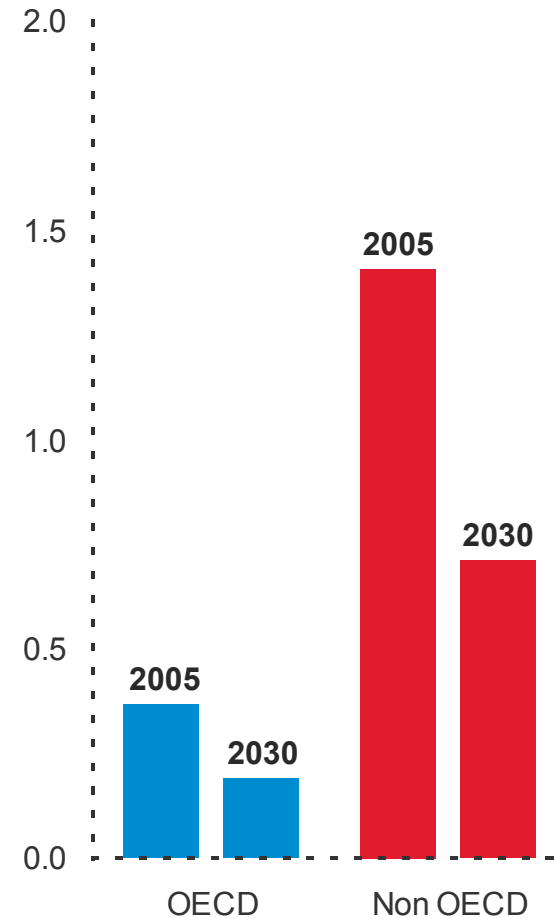
Emissions per Capita

Tons / Person

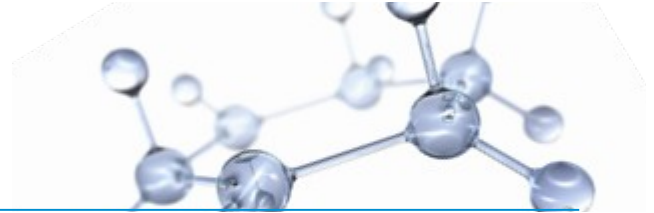


Emissions per GDP

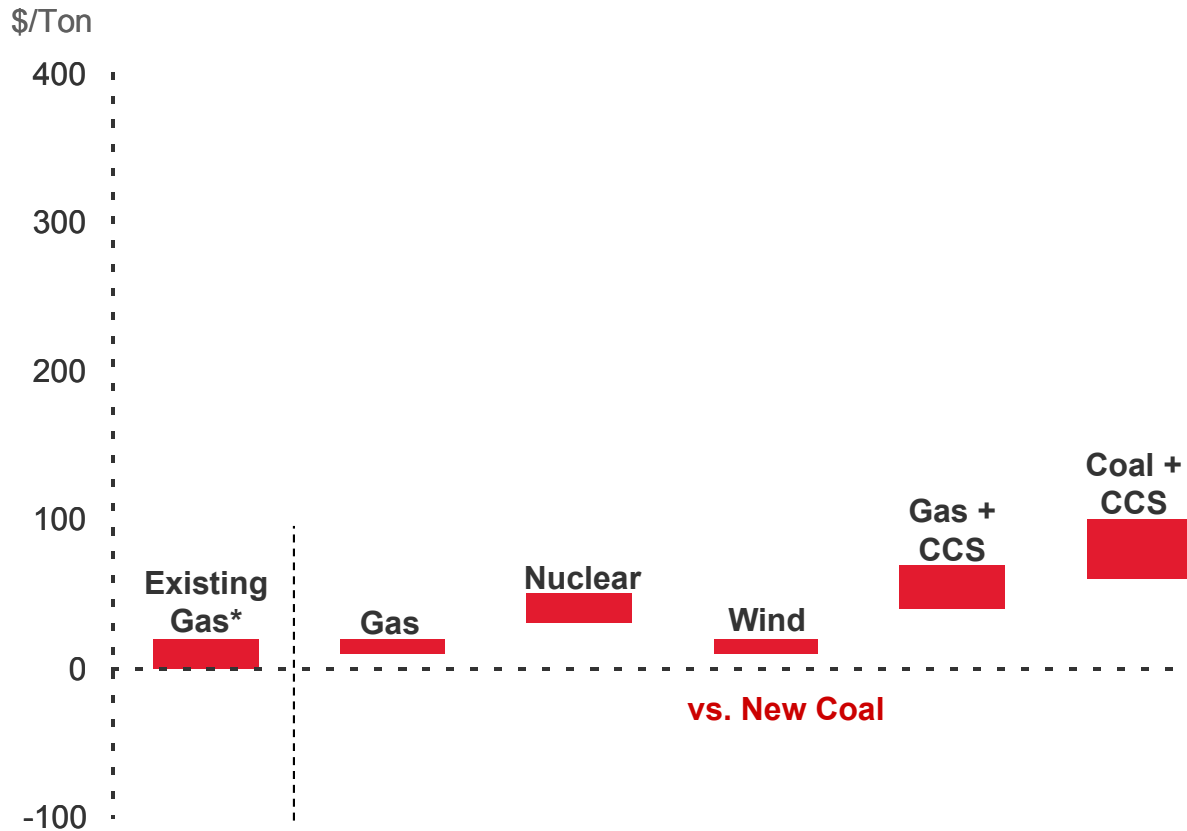
Tons / 2005\$ k GDP



CO₂ Abatement Costs

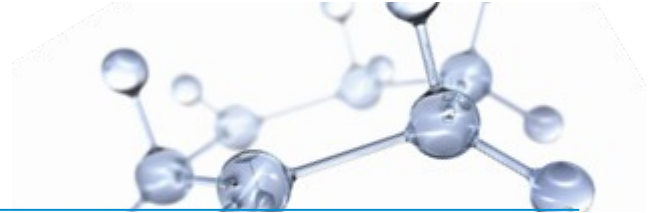


US Cost of CO₂ Avoidance

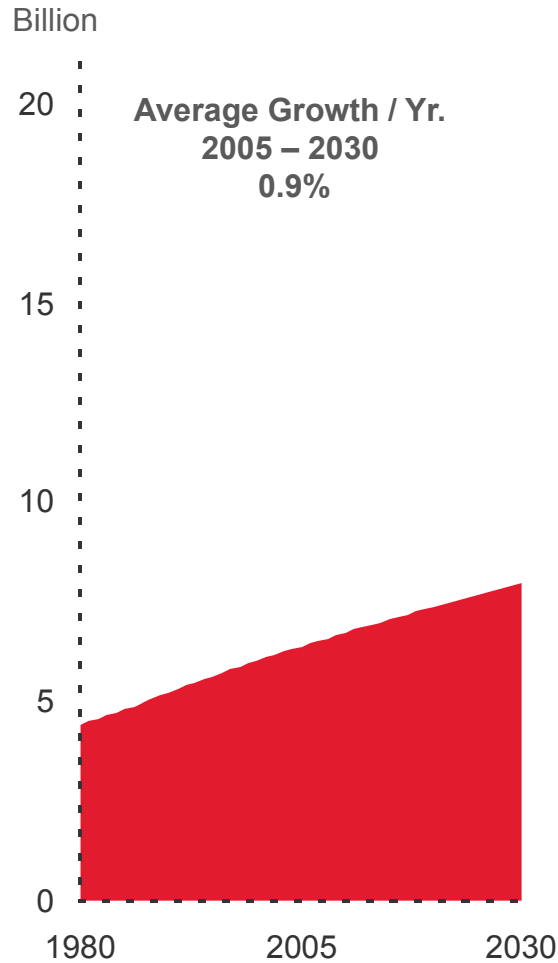


*Higher utilization of existing gas vs. existing coal

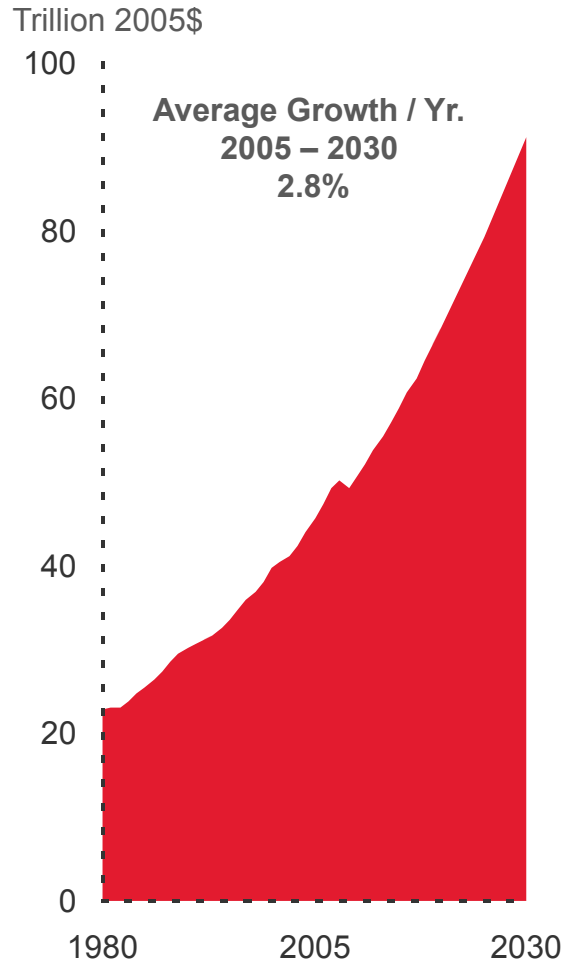
Global Progress Drives Demand



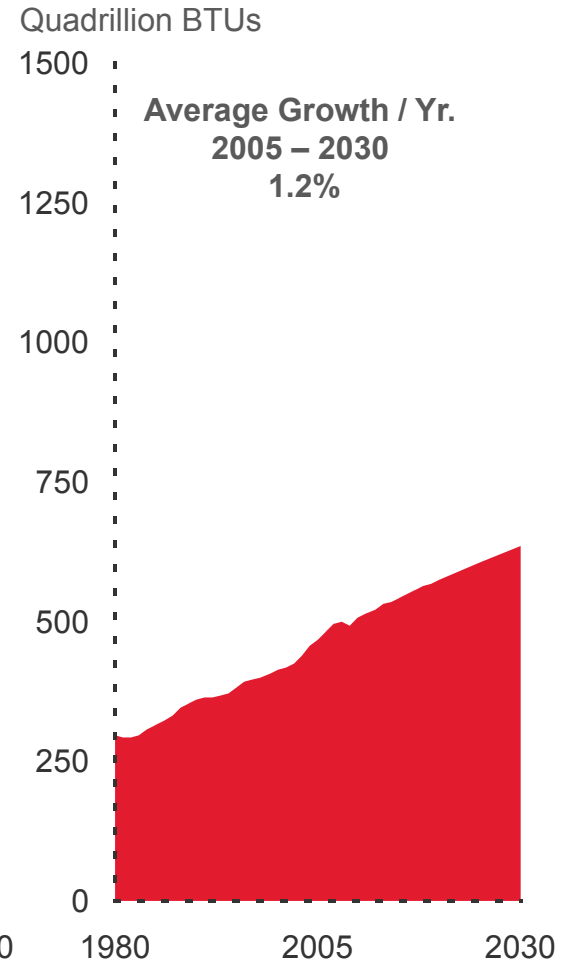
Population



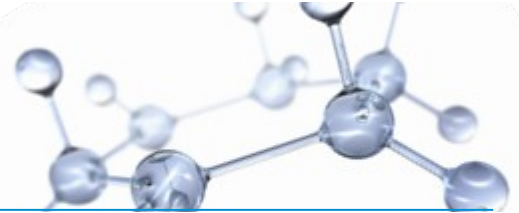
GDP



Energy Demand



Development Challenges and Solutions



1 billion more people

Increase Efficiency

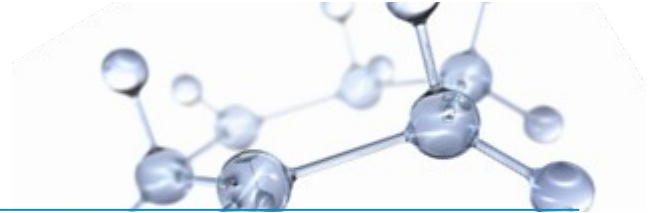
100% increase in global GDP



Technology

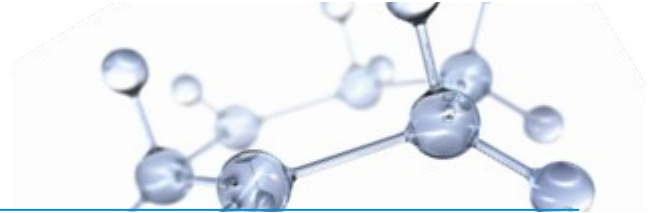
Mitigate 35% emissions energy demand

Expand reliable, affordable energy supplies needed



ExxonMobil™

Speculation



“ One of the things I find puzzling about the whole oil market discussion is how complicated people seem to make it.

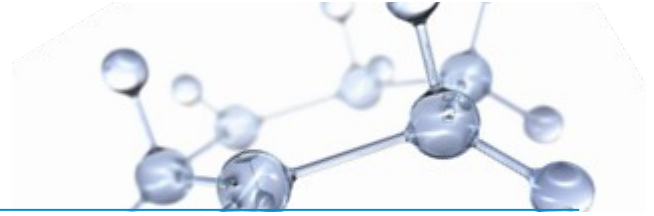
They get all wrapped up in stuff about forward markets, hedge funds, etc., and lose sight of the fundamental fact that there are only two things you can do with the world’s oil production: consume it, or store it.

If the price is above the level at which the demand from end-users is equal to production, there’s an excess supply - and that supply has to be going into inventories.

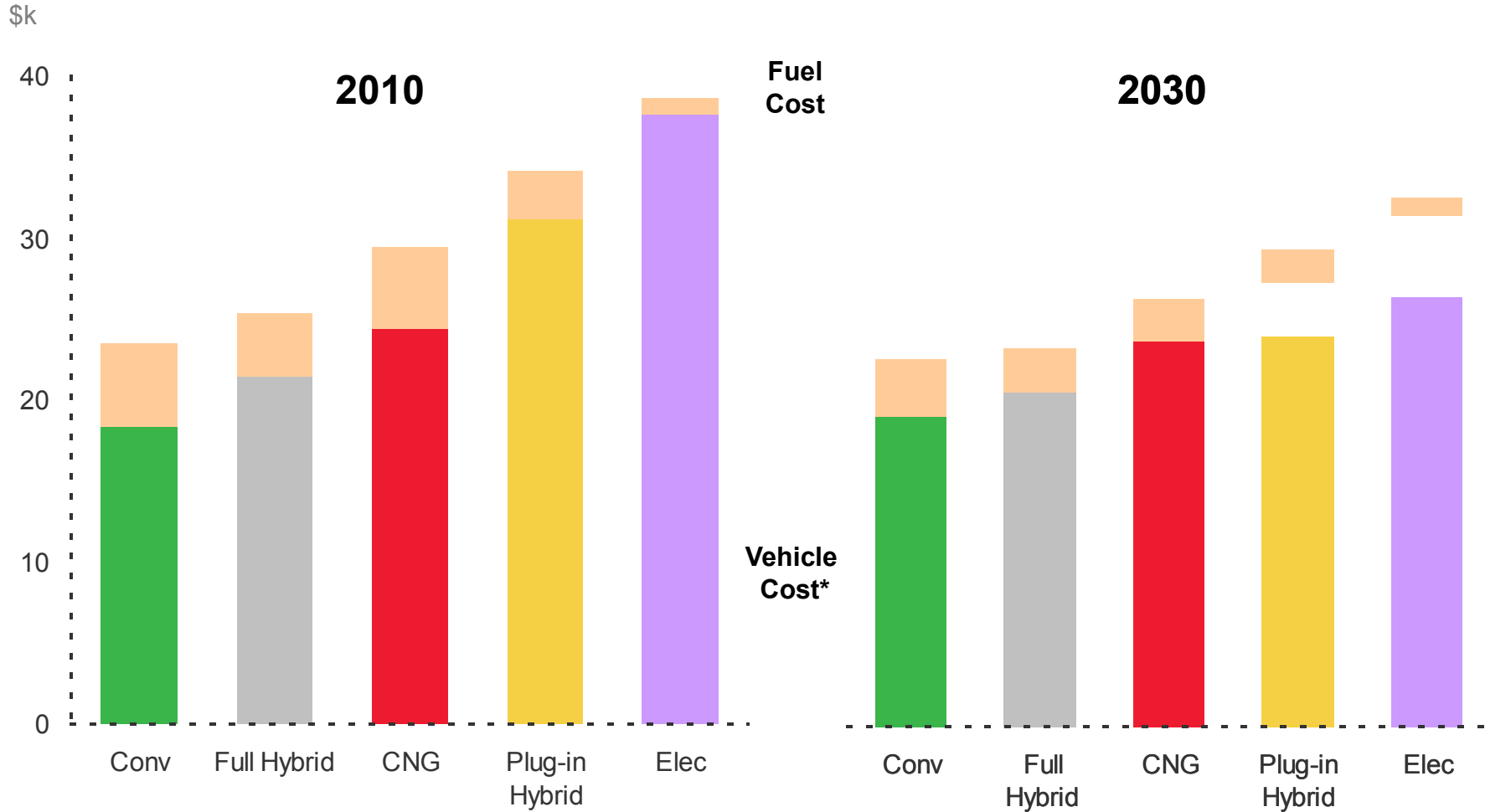
If oil isn’t building up in inventories, there can’t be a bubble in the spot price.”

Paul Krugman – Princeton University economics professor
2008 Nobel prize winner in economics

U.S. Vehicle Costs



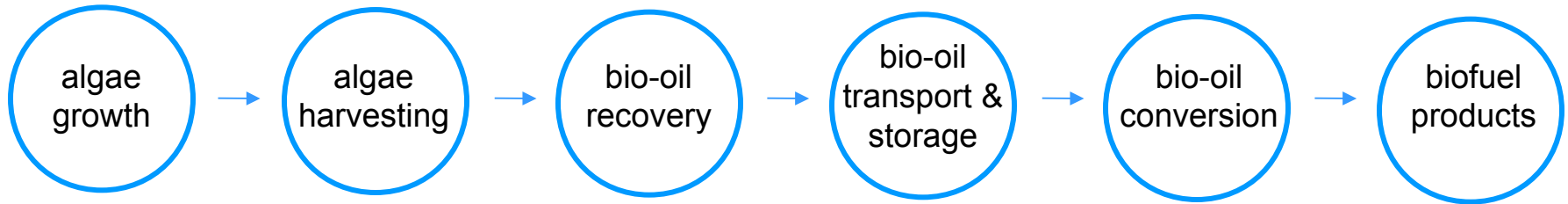
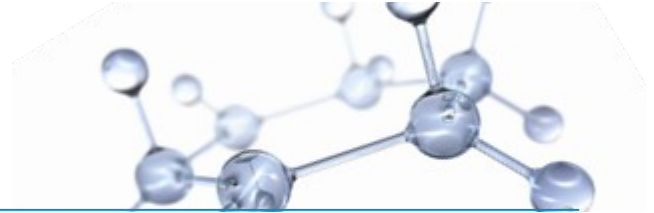
5-Year Cost of Ownership



ExxonMobil 2010 Energy Outlook

*Excludes Maintenance and Insurance

ExxonMobil – SGI alliance



-  SYNTHETIC GENOMICS® unsuitable for ExxonMobil food production

- Greater volumes per acre
 - Biological research for algae strain development, growth and harvesting

- Similar to today's transportation fuels
 - Bio-oil recovery research and development

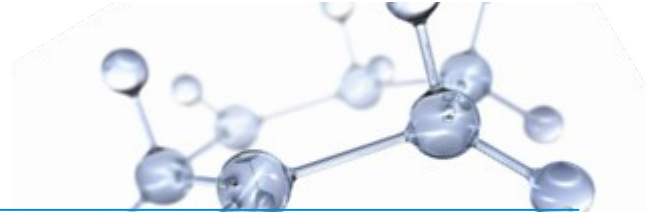
- GHG mitigation benefits

- Process engineering and scale up

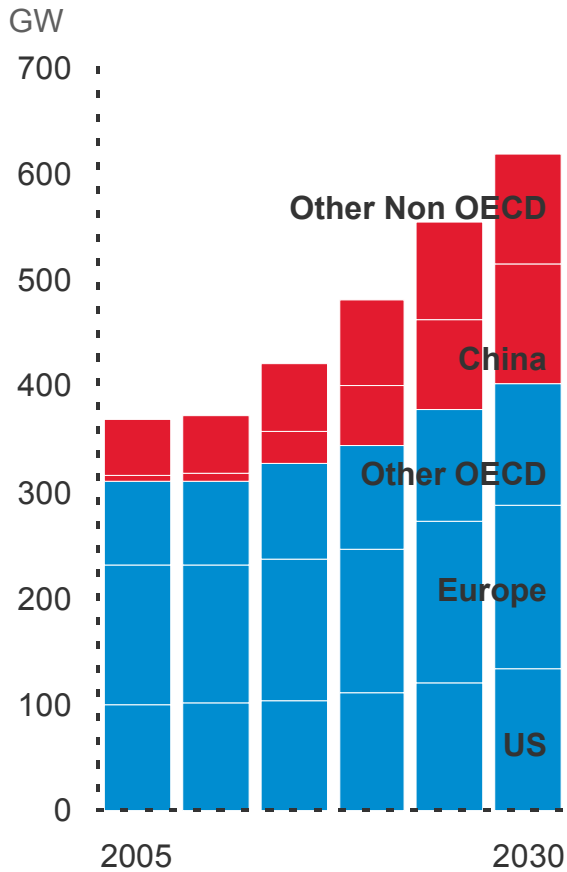
- Upgrading bio-oil into finished products

- Total process integration

Nuclear Capacity Expands

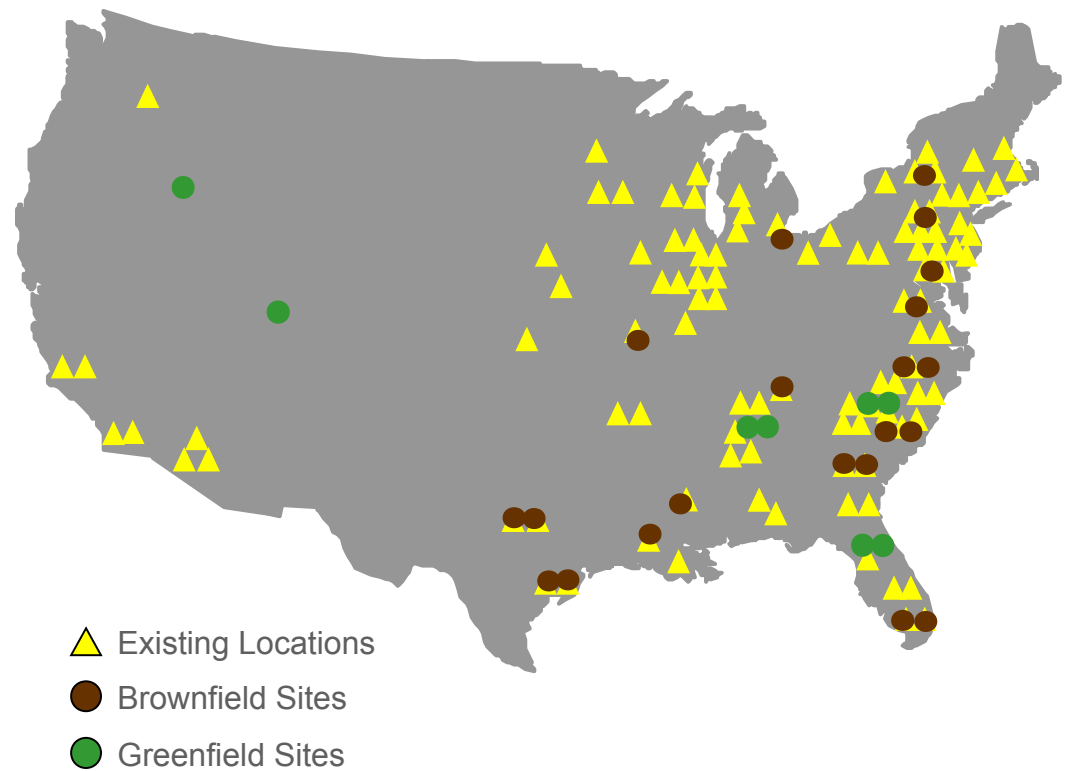


Global Capacity

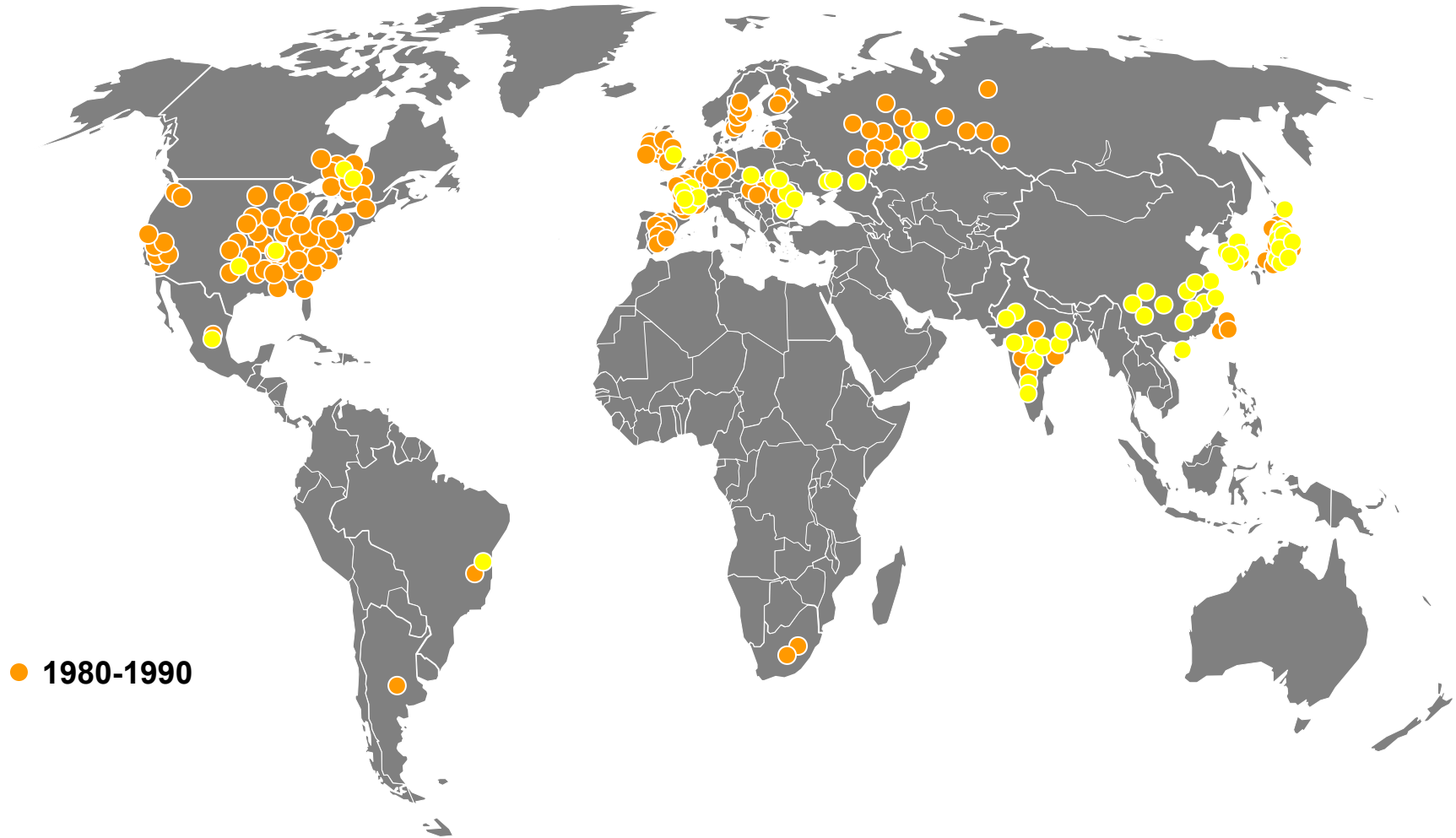
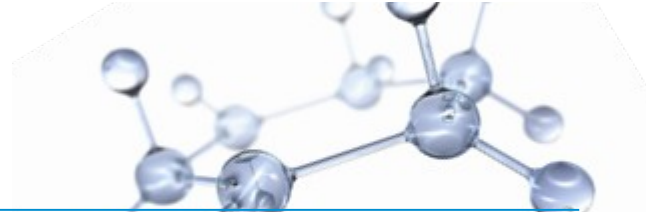


US Nuclear Reactors

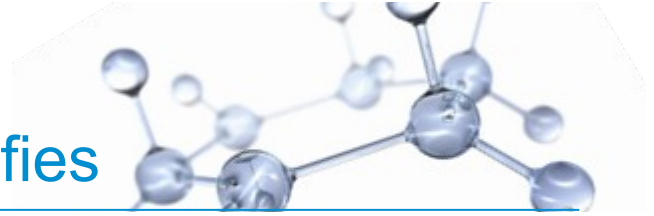
Existing Locations



Nuclear Capacity Growth Shifts

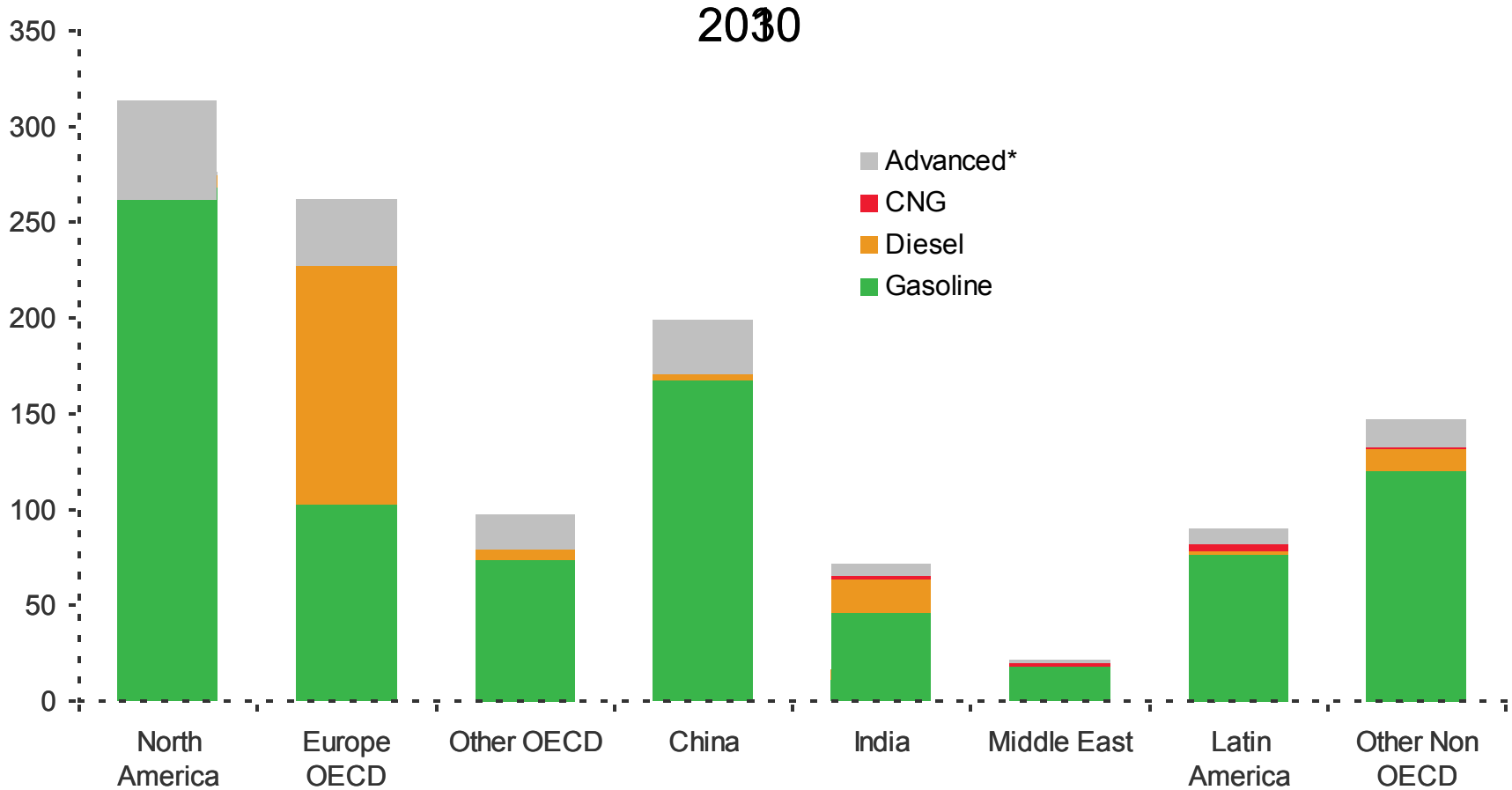


Personal Transportation Fleet Diversifies



Powertrain Technology

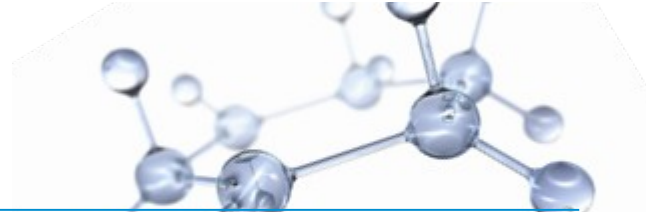
Millions of Vehicles



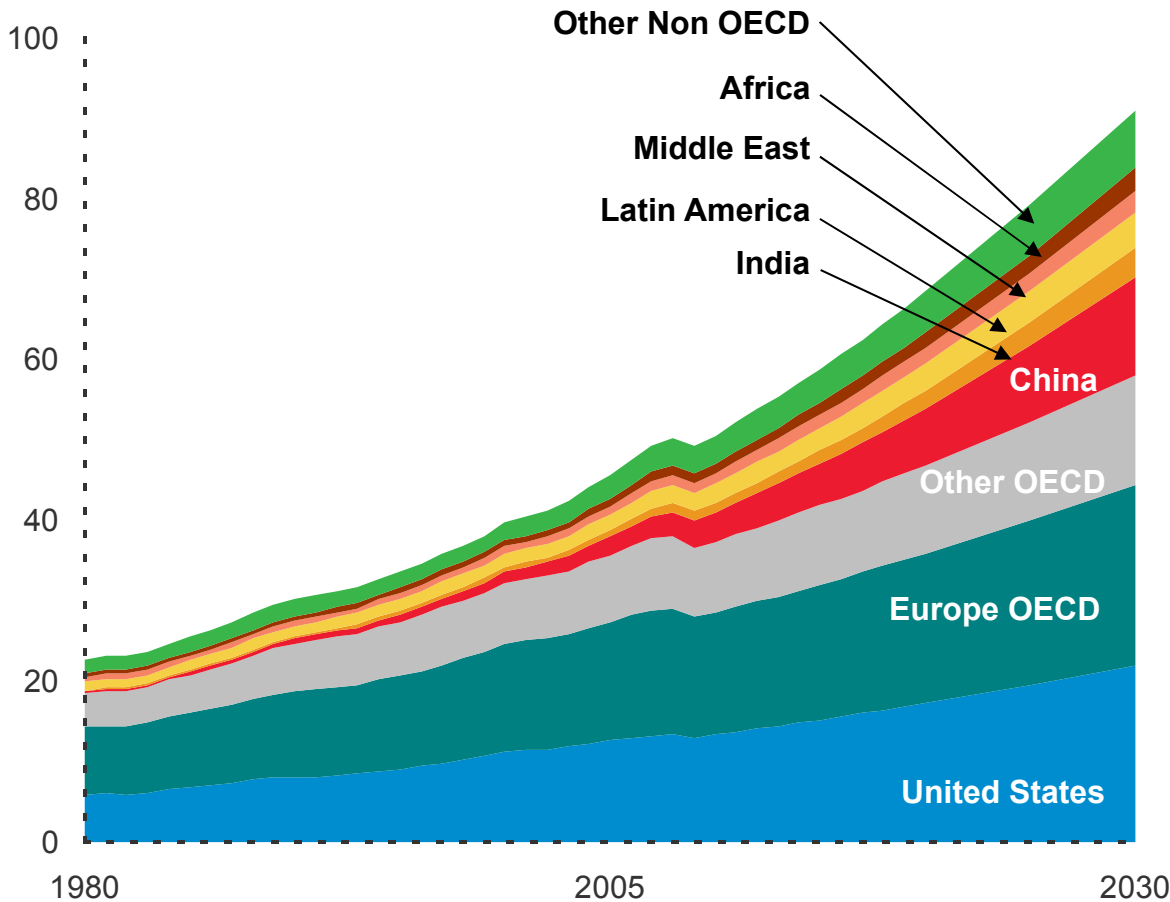
ExxonMobil 2010 Energy Outlook

*Full Hybrid, Plug-in Hybrid, Electric Vehicles

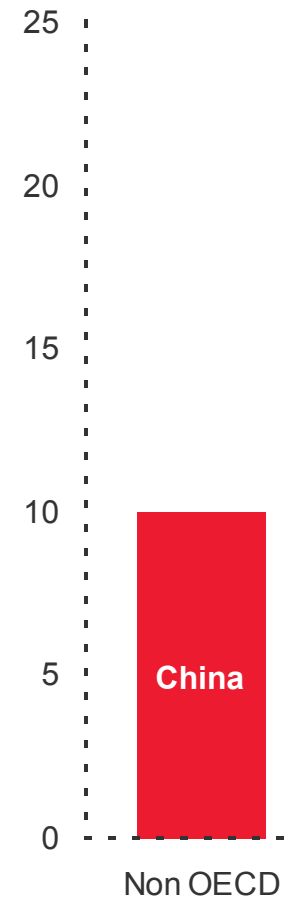
Economic Growth Continues



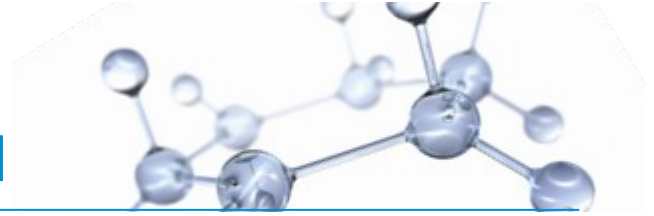
GDP
Trillion 2005\$



GDP Growth 2005 to 2030
Trillion 2005\$

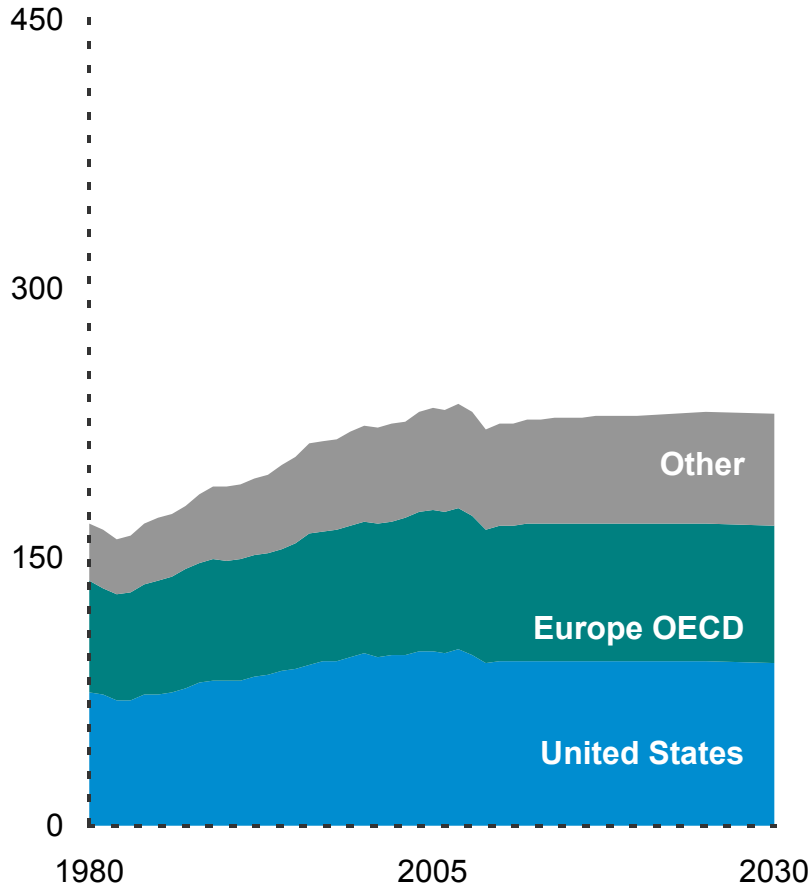


Expansion Economies Drive Demand



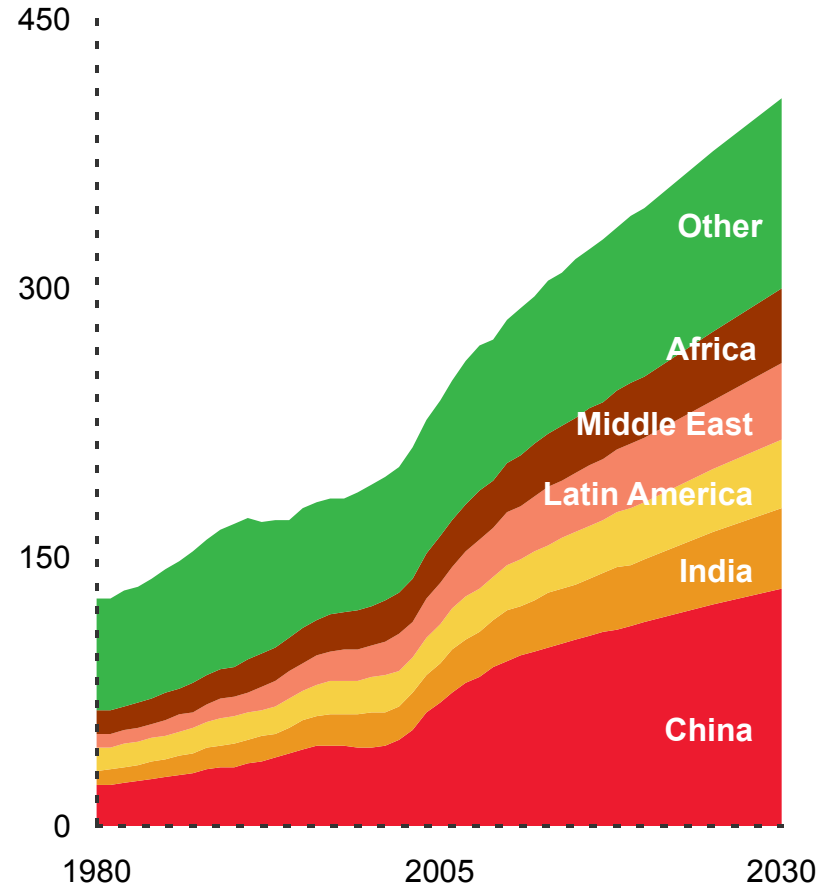
OECD

Quadrillion BTUs



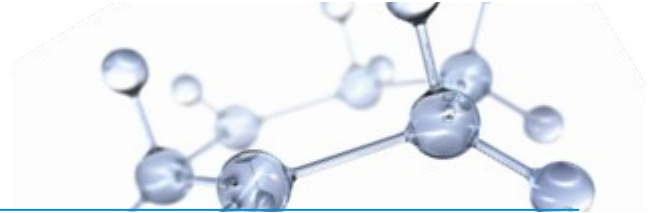
Non OECD

Quadrillion BTUs

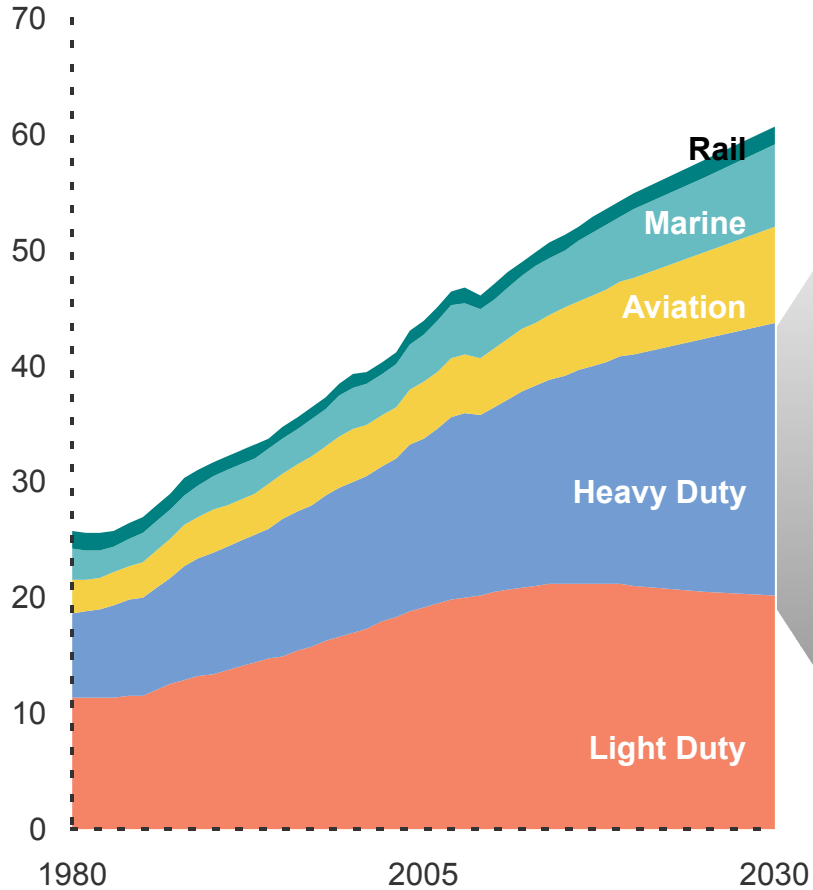


ExxonMobil 2010 Energy Outlook

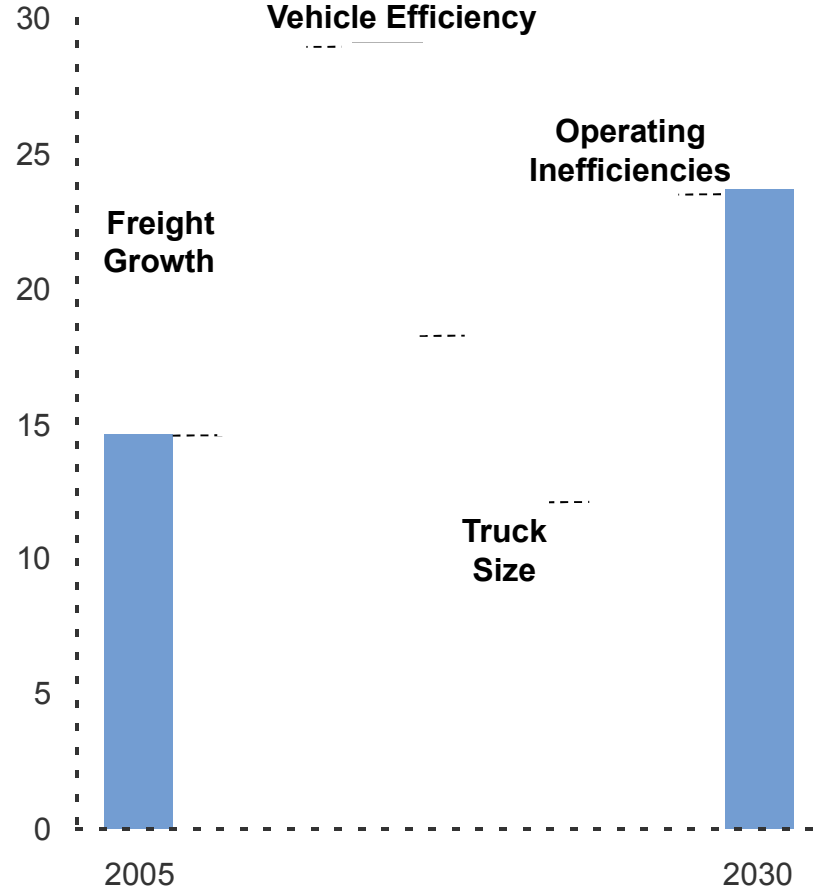
Heavy Duty Dominates Growth



Demand
MBDOE

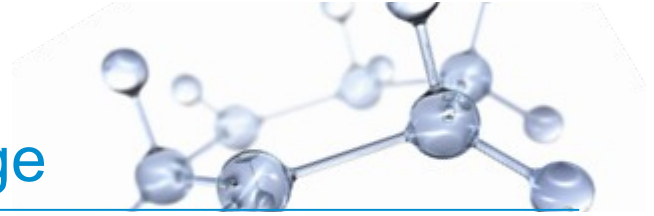


Heavy Duty Demand Changes
MBDOE

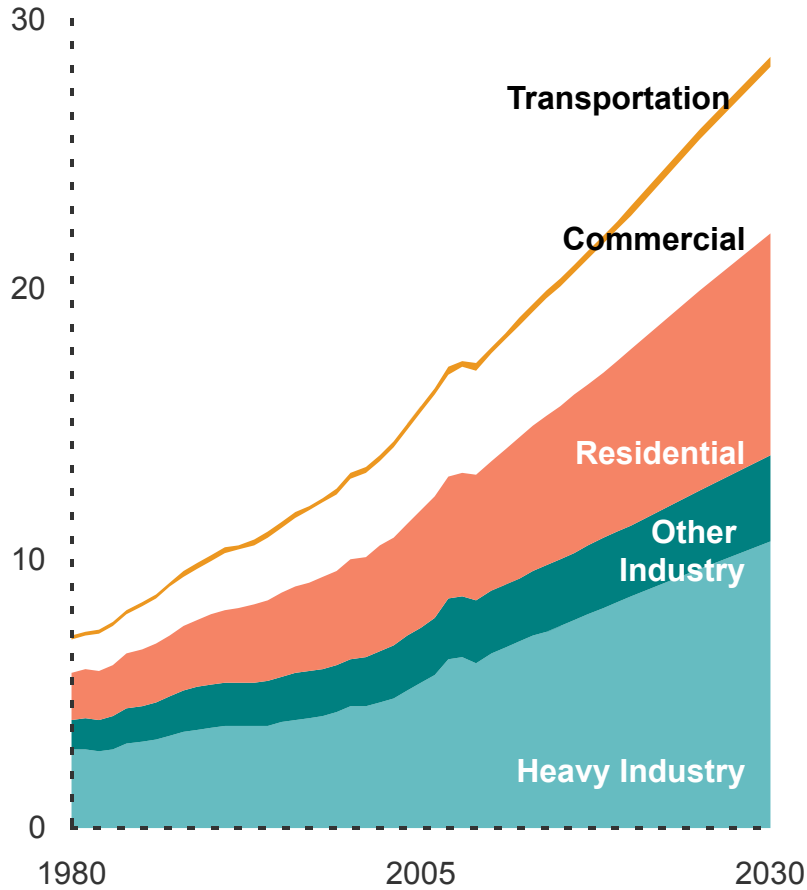


ExxonMobil 2010 Energy Outlook

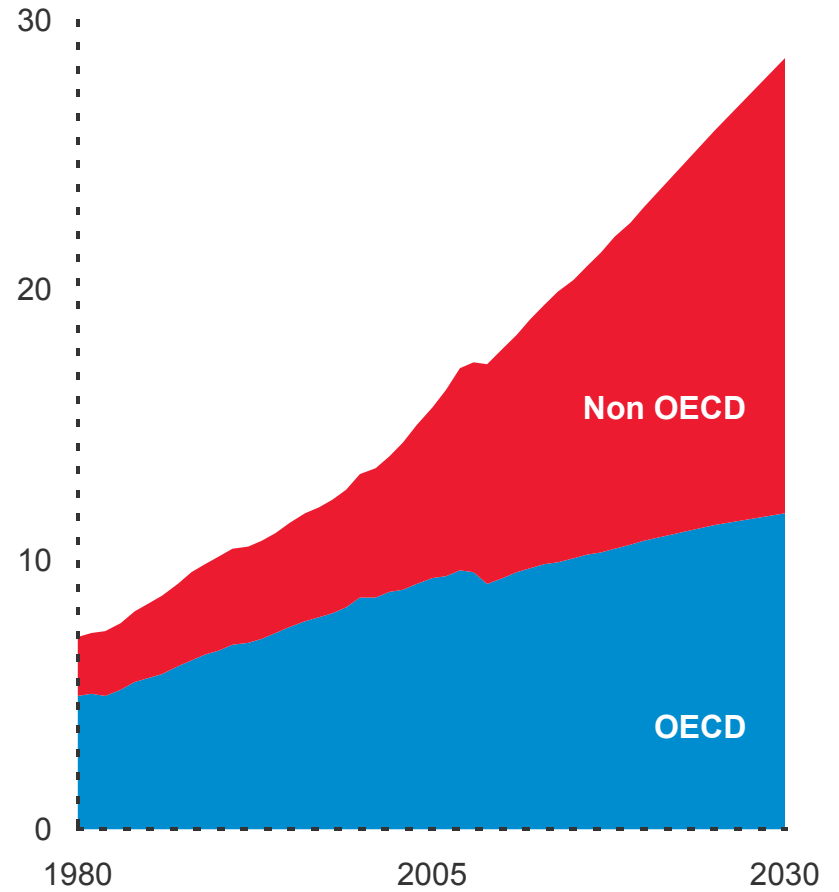
Electricity Demand Continues to Surge



By Sector
k TWh

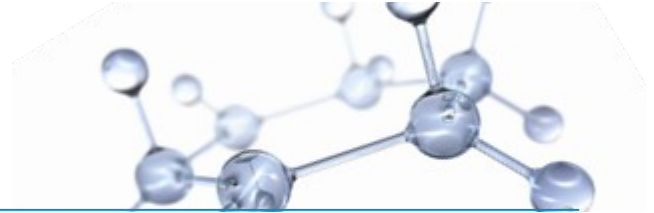


By Region
k TWh



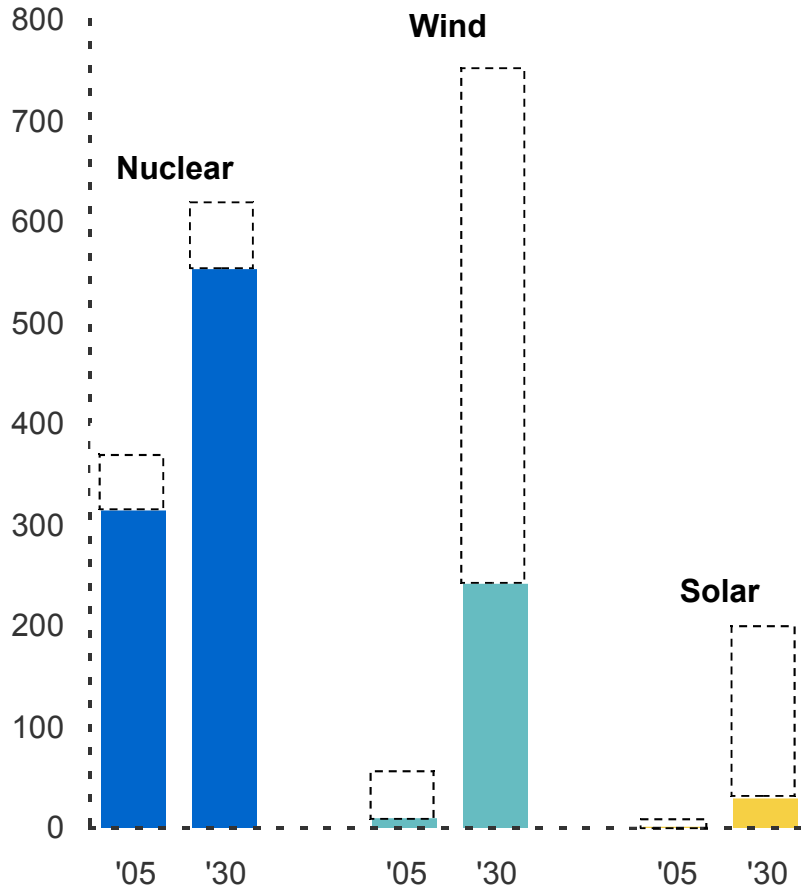
ExxonMobil 2010 Energy Outlook

Power Generation Mix Evolves



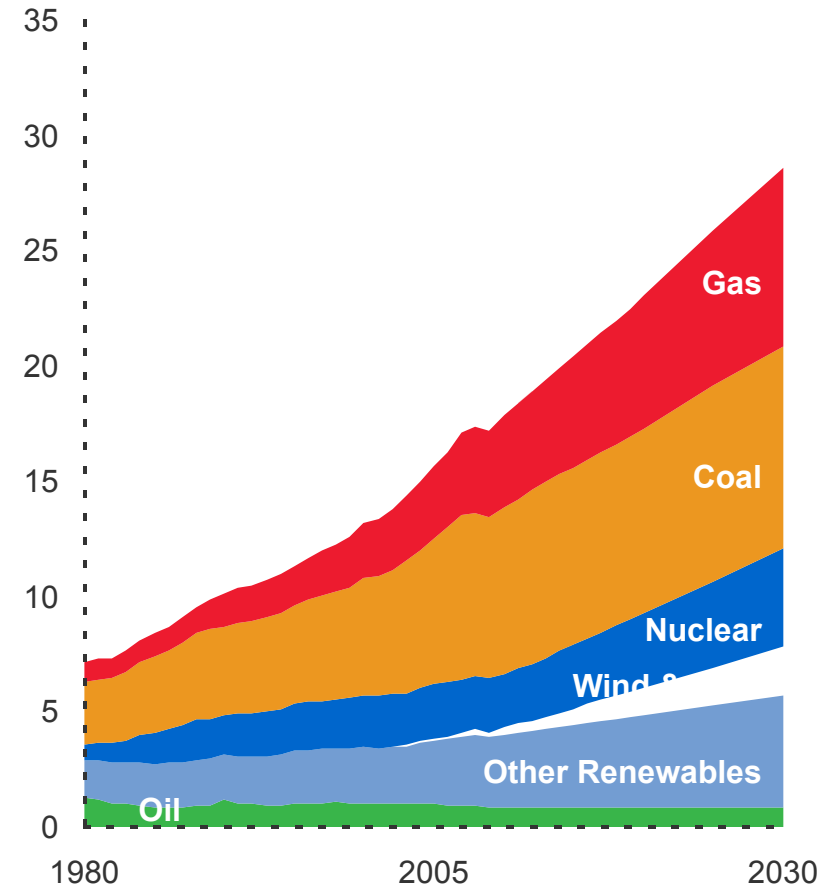
Global Capacity Utilized

GW

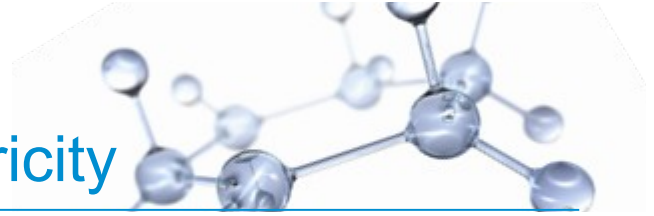


By Generation

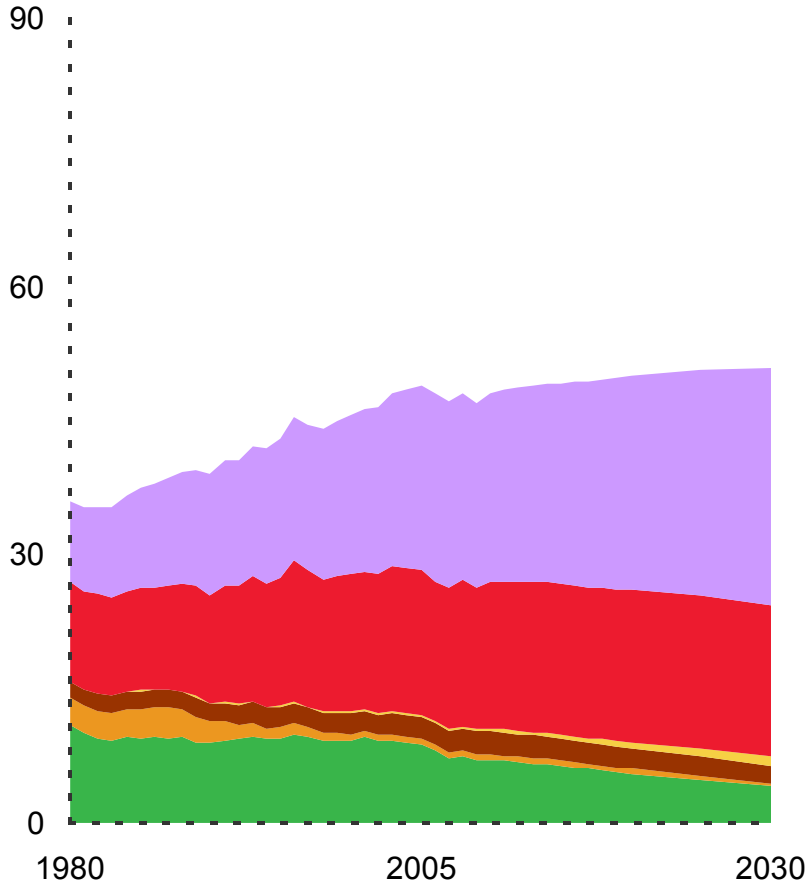
k TWh



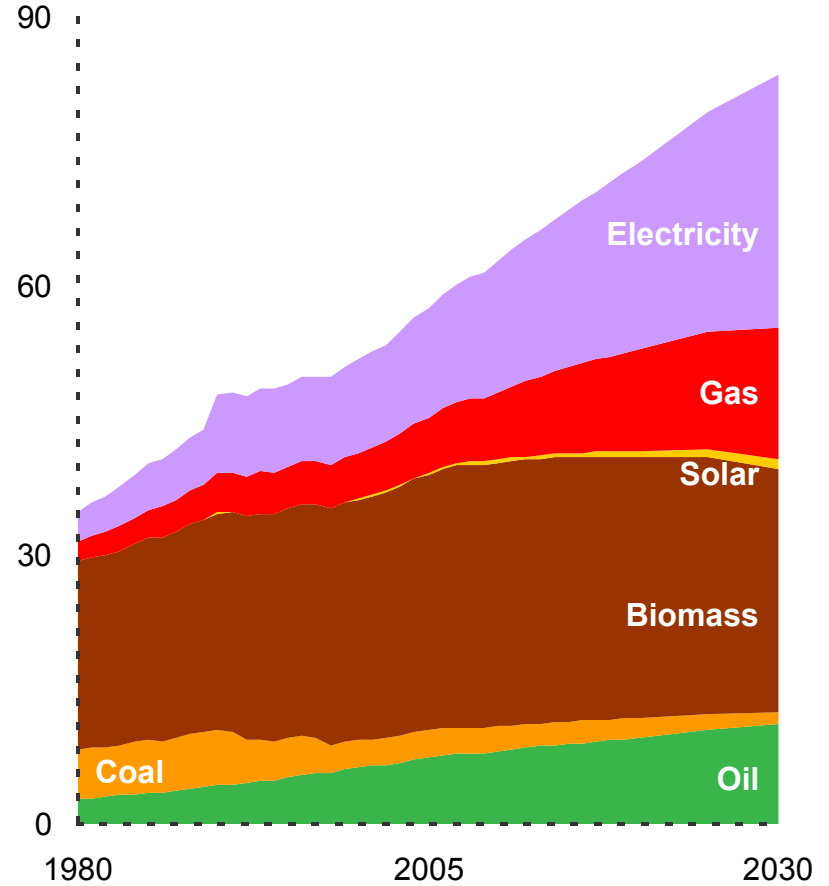
Residential/Commercial Needs Electricity



OECD
Quadrillion BTUs

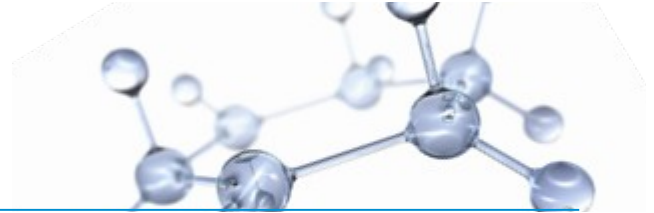


Non OECD
Quadrillion BTUs



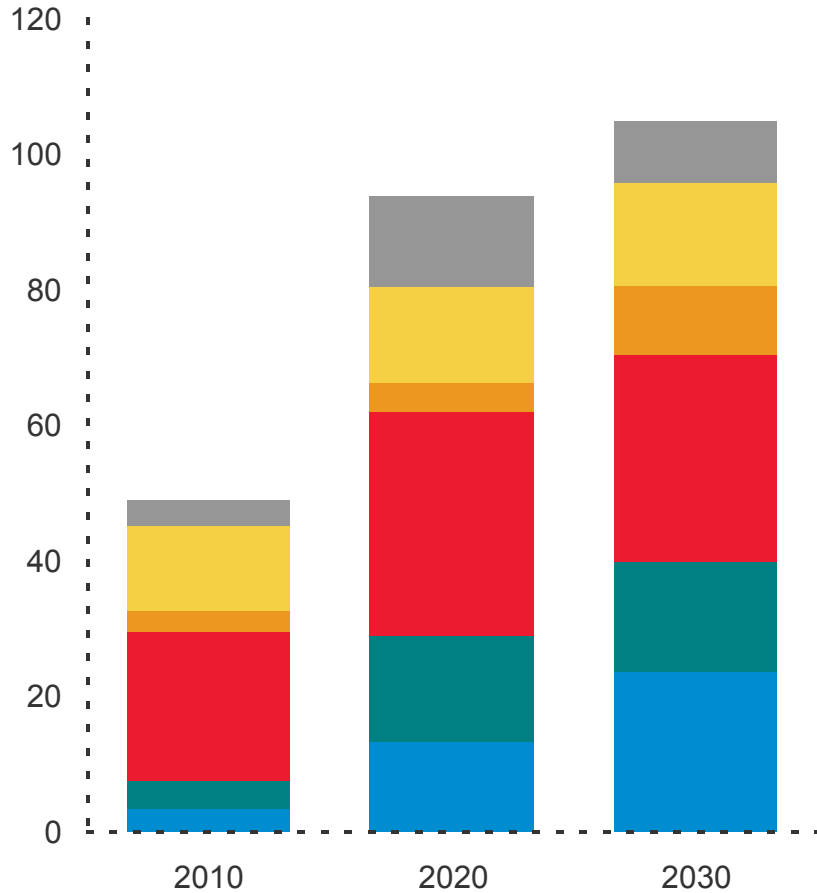
ExxonMobil 2010 Energy Outlook

Nuclear & Wind Capacity Expand



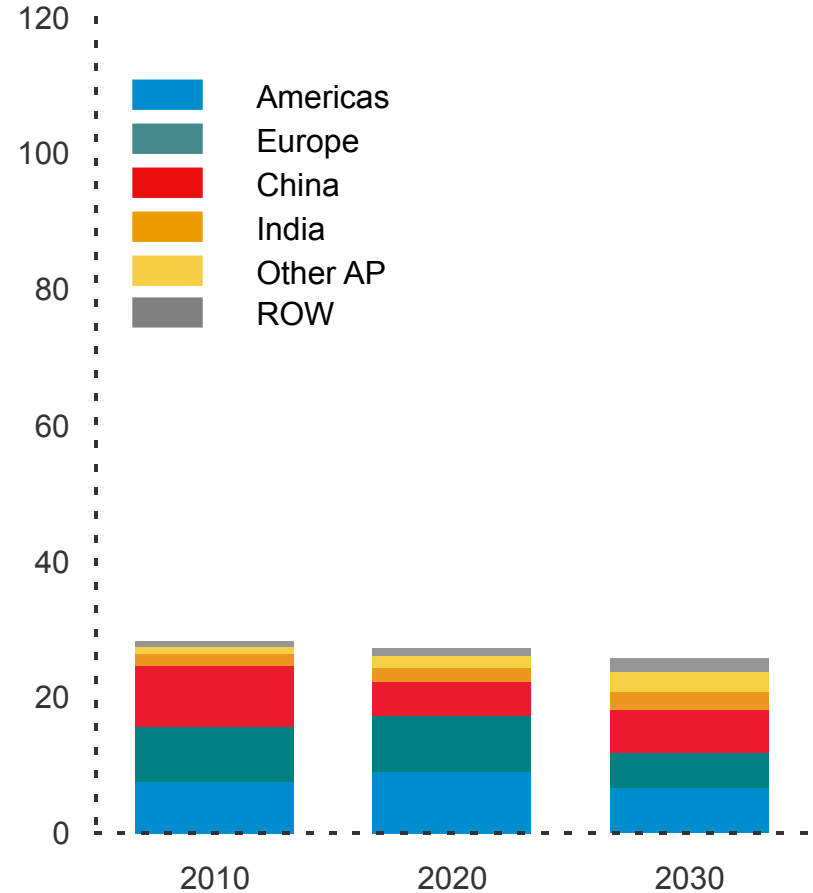
Nuclear

GW – 6 year build time

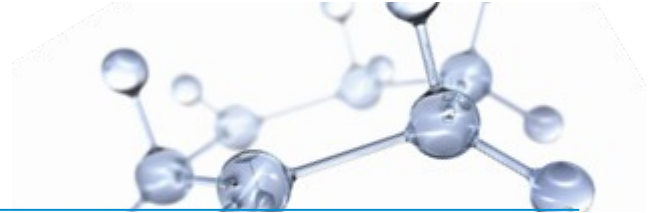


Wind

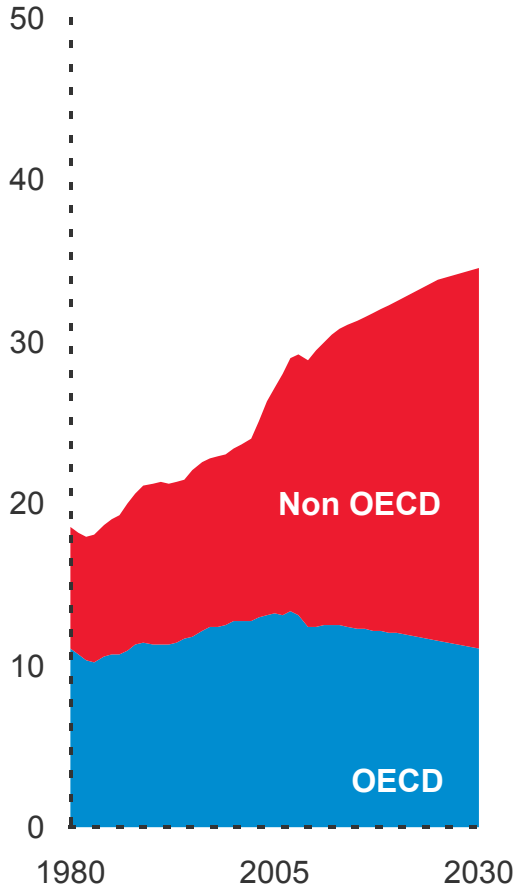
GW – 1 year build time



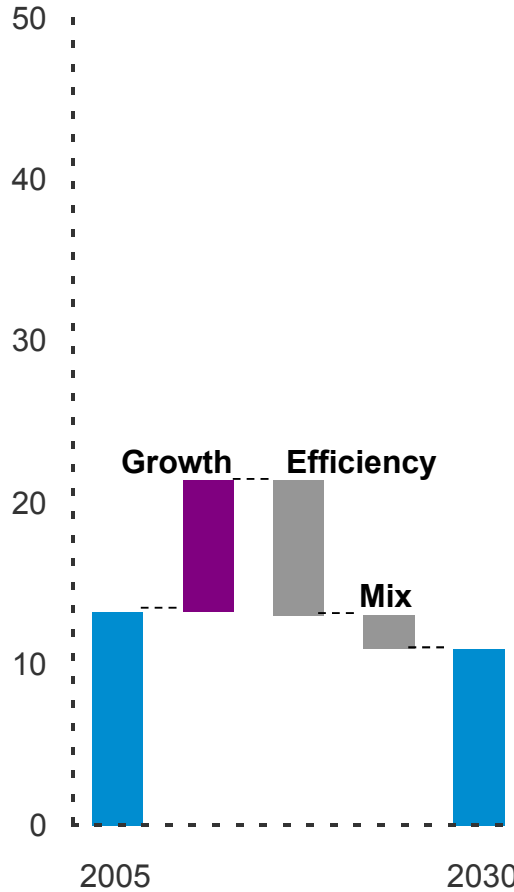
CO₂ Emissions Moderate



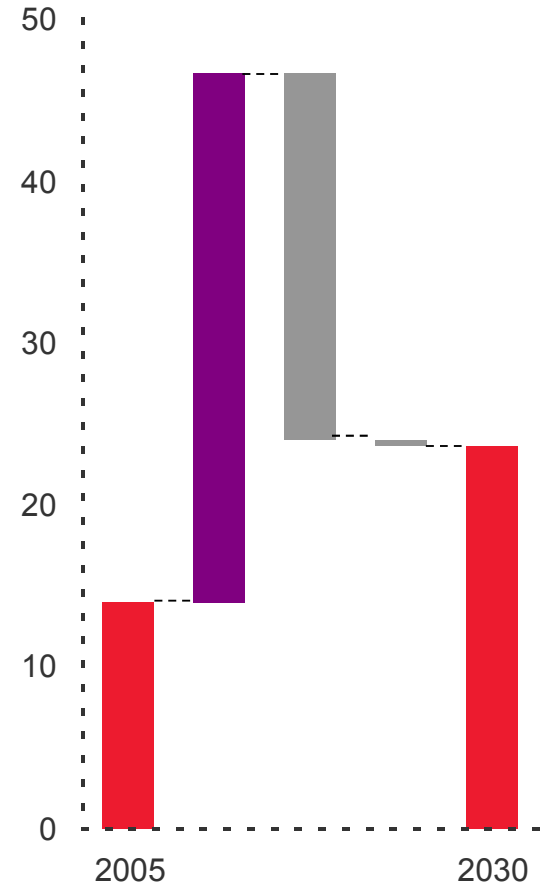
World
Billion Tons



OECD
Billion Tons

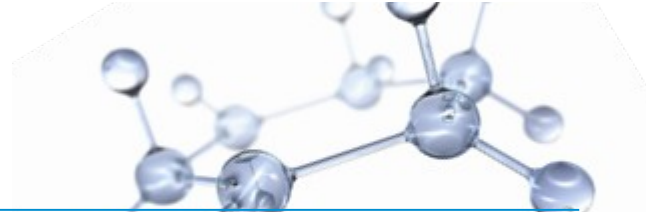


Non OECD
Billion Tons



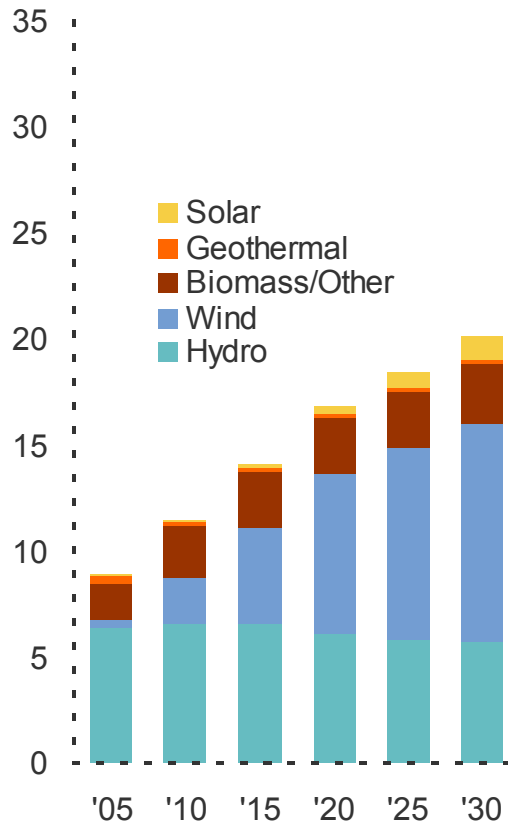
ExxonMobil 2010 Energy Outlook

Renewables Gain Share



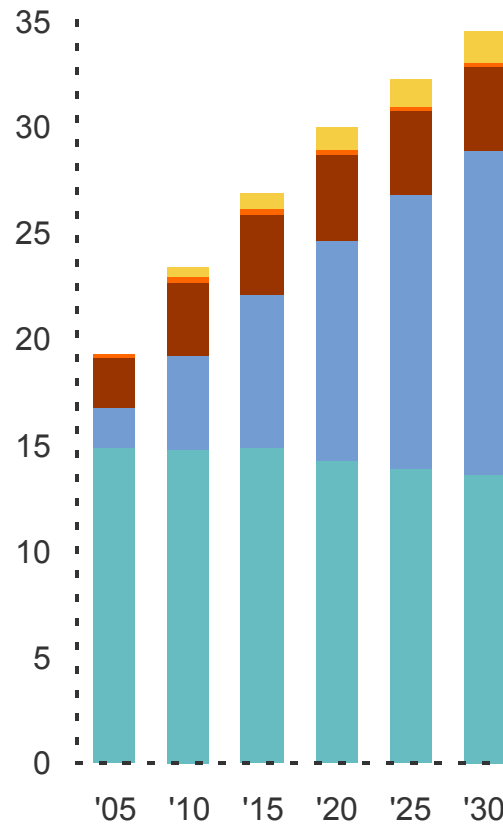
United States

Percent of TWhr



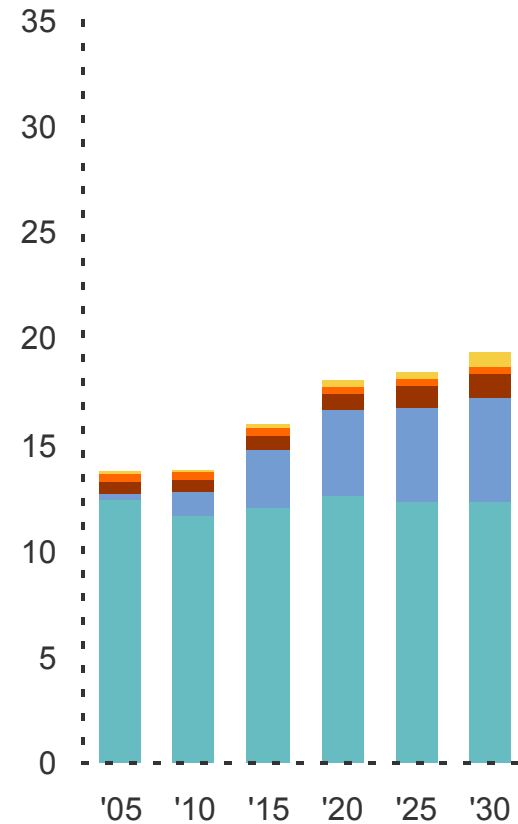
Europe

Percent of TWhr



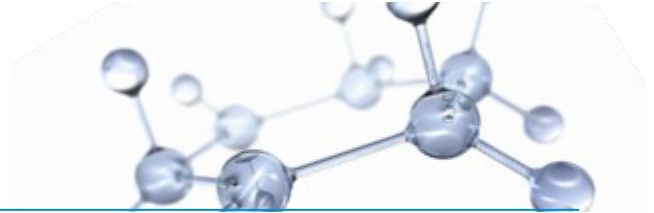
Asia Pacific

Percent of TWhr



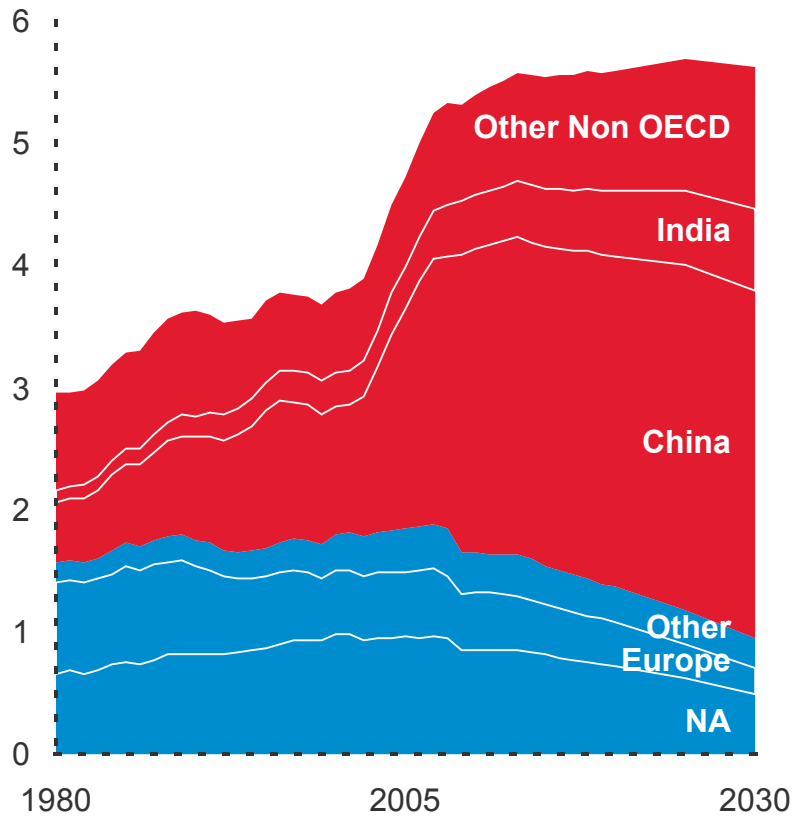
*Biomass includes Municipal Solid Waste

Coal Supplies Plentiful



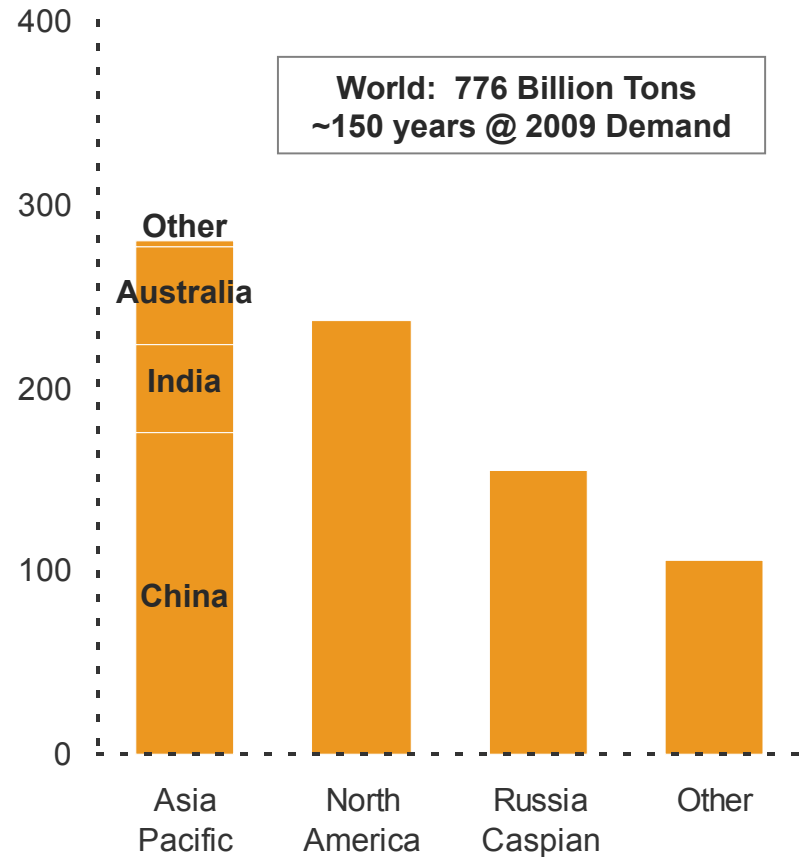
Demand

Billion Tons

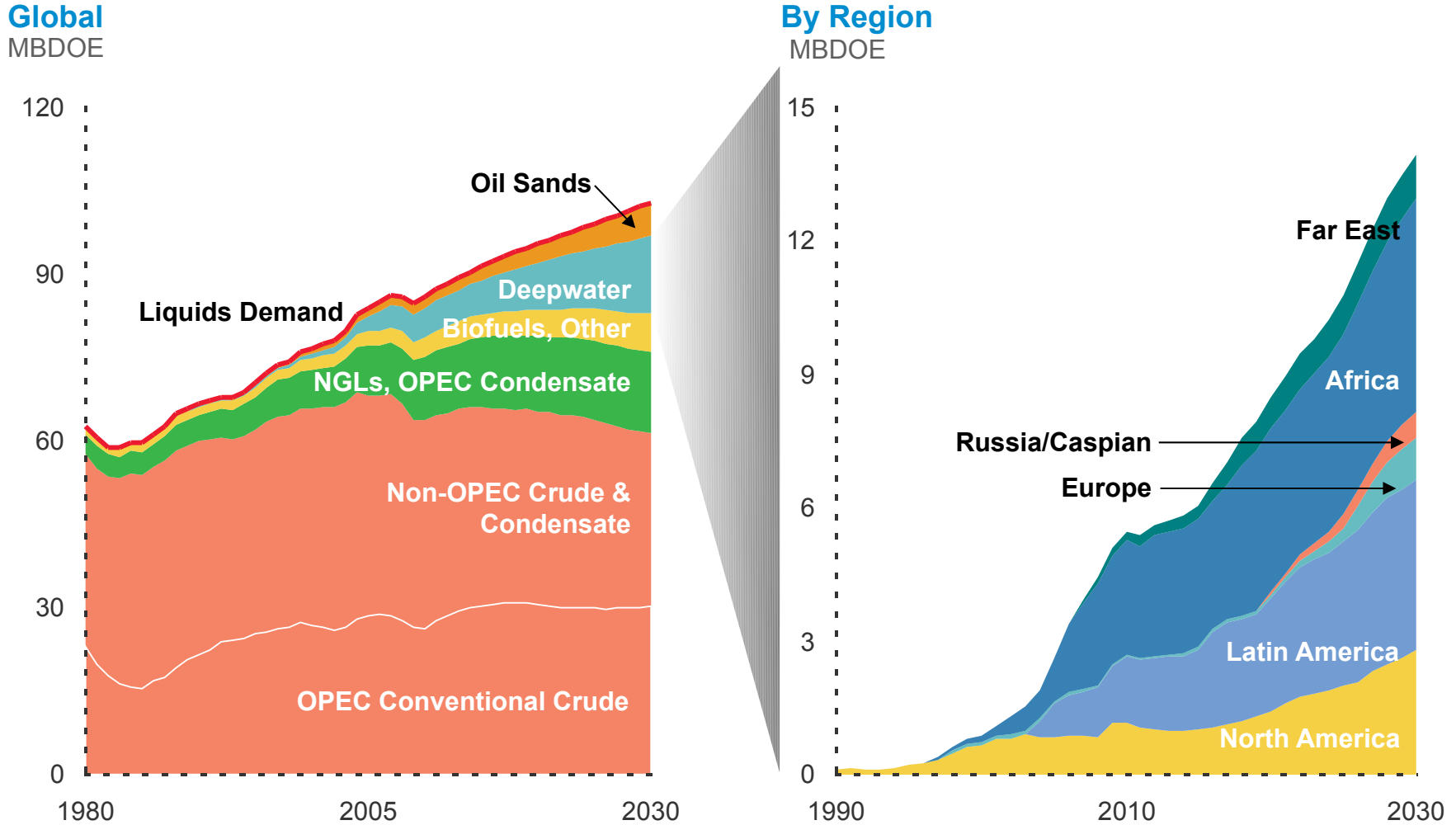
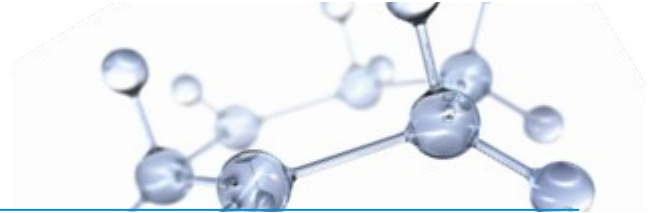


Reserves

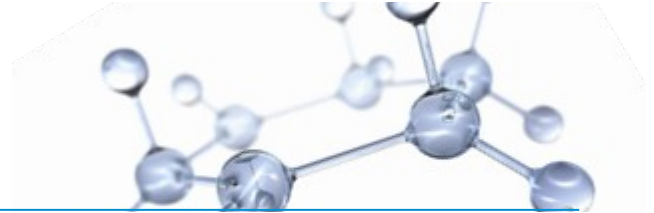
Billion Tons



Deepwater Supply Expands Globally

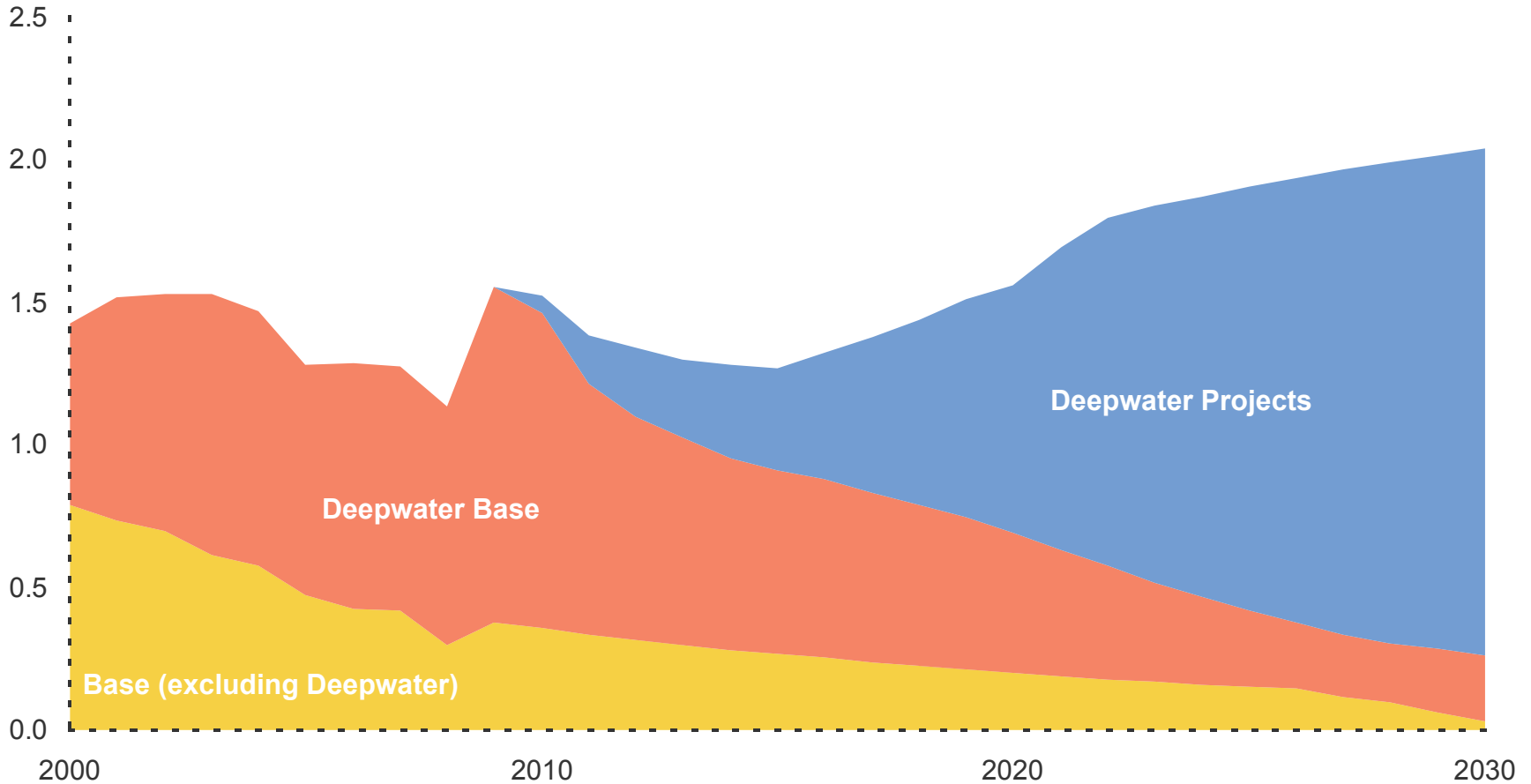


Gulf of Mexico Supply Grows

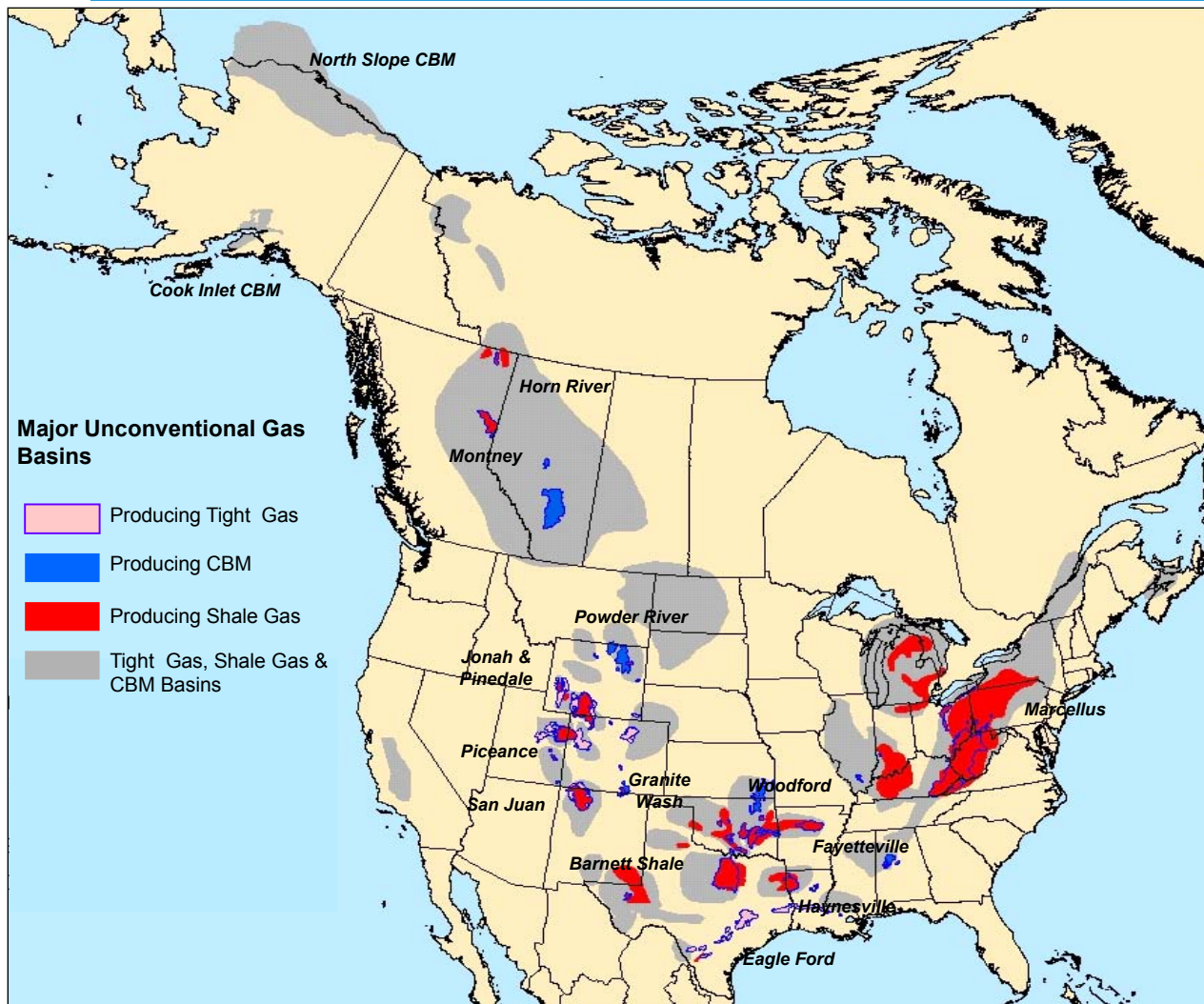
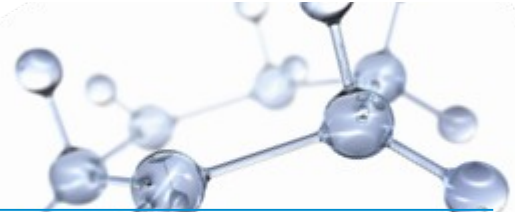


Liquids Supply

MBD

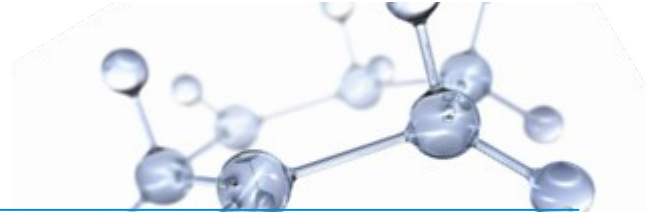


Remaining U.S. Gas Resource



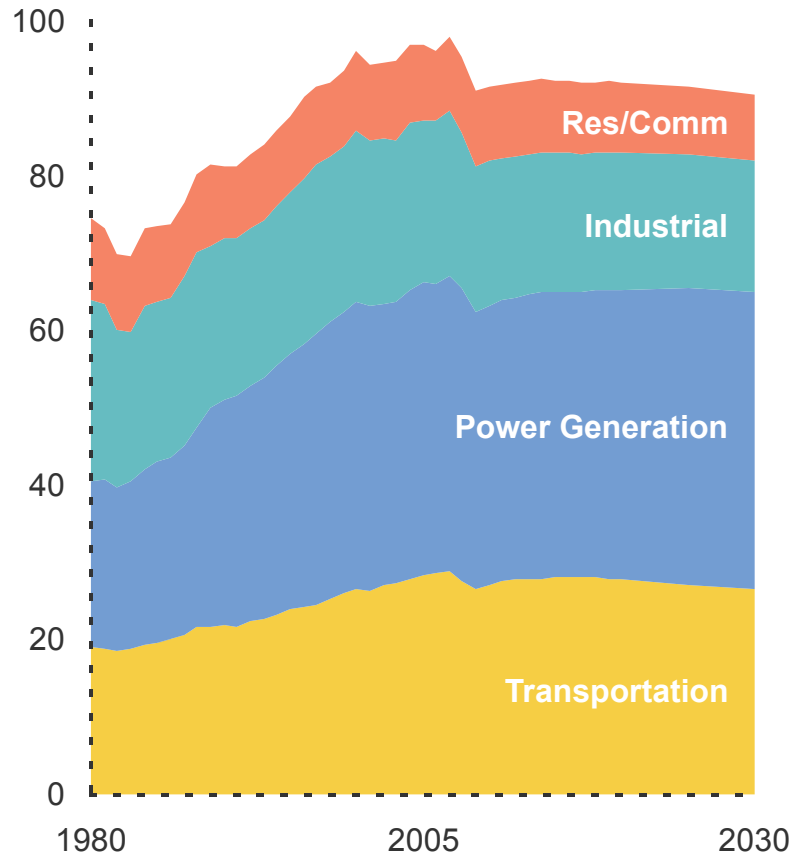
- Resources for ~100 years coverage at current demand
- Unconventional gas has extended coverage 60+ years
- Further unconventional gains expected

US Energy Demand and Supply



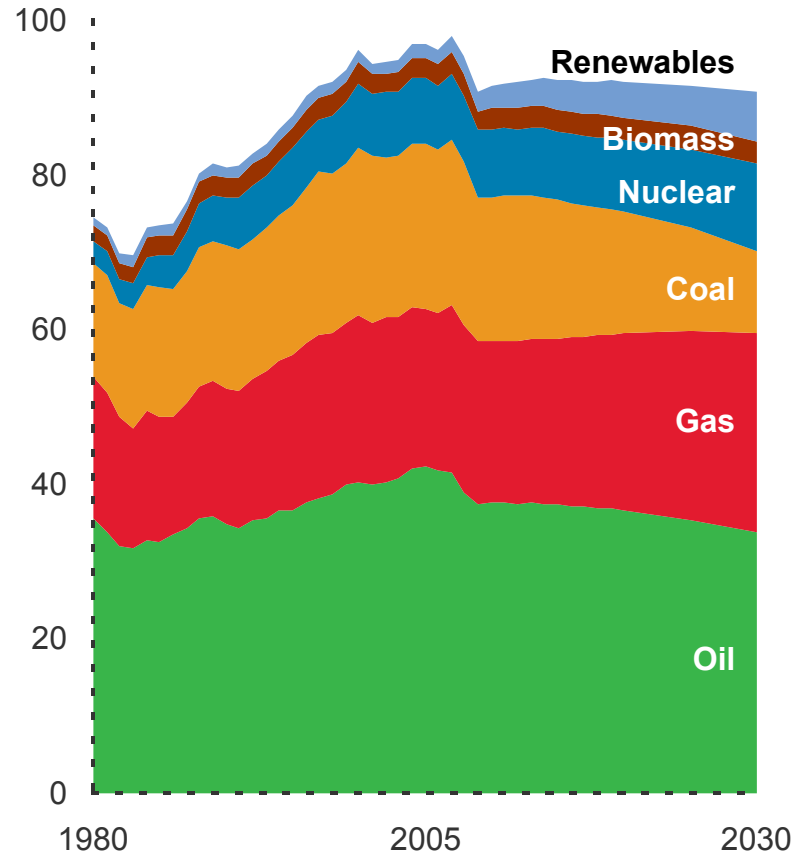
By Sector

Quadrillion BTUs

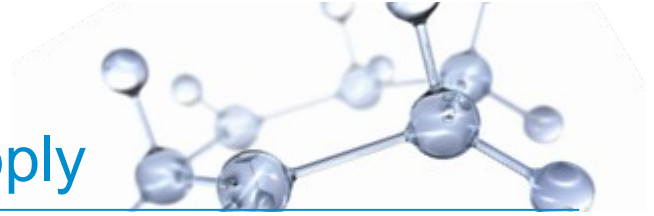


By Fuel

Quadrillion BTUs

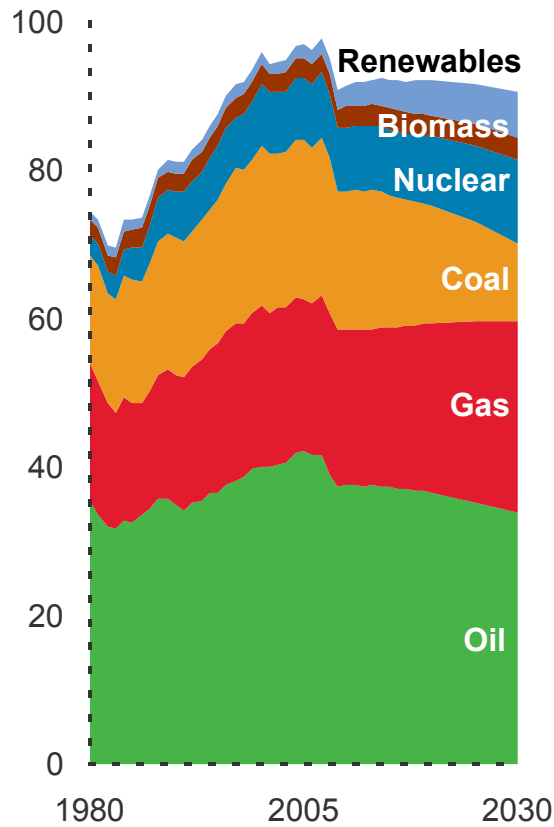


United States Energy Demand & Supply



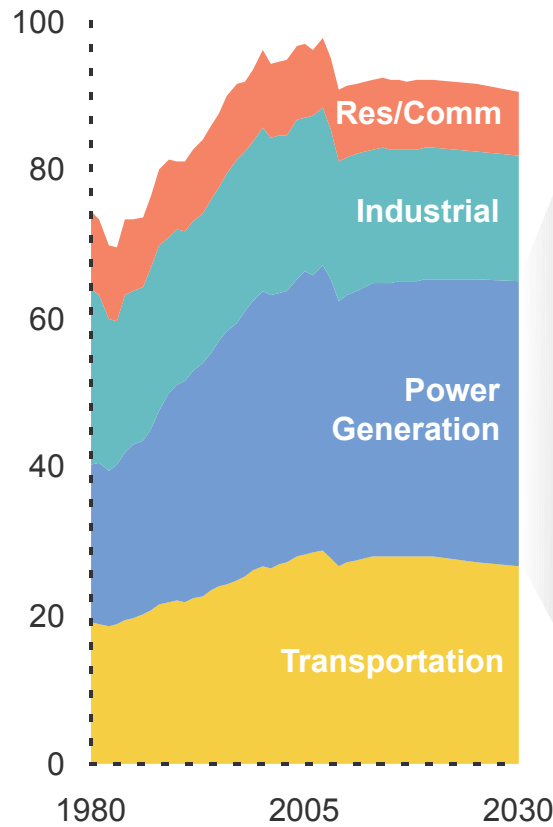
Total By Fuel

Quadrillion BTUs



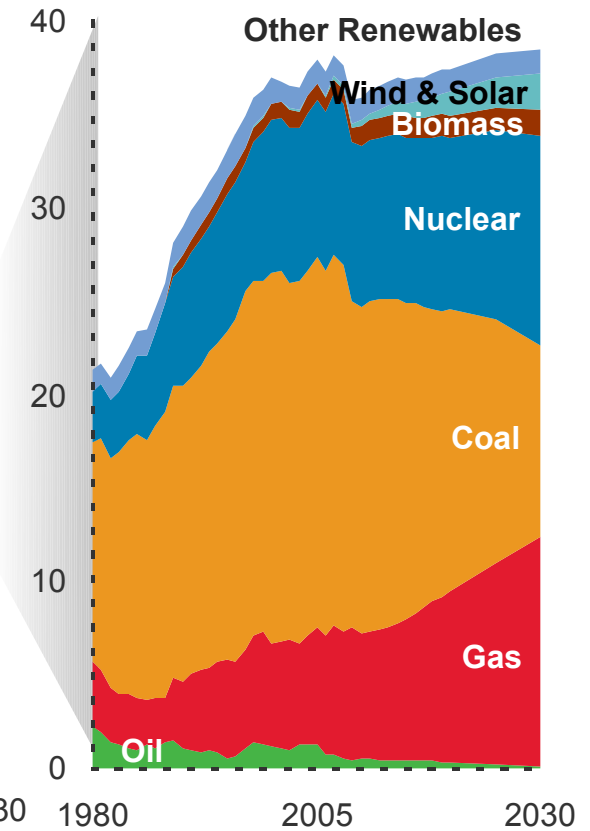
Total By Sector

Quadrillion BTUs

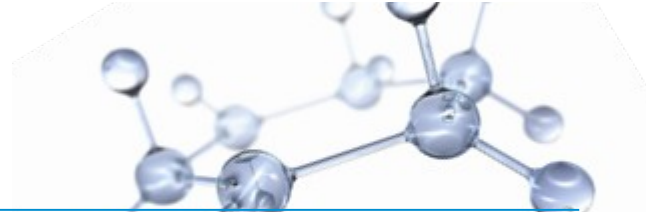


Power Generation by Fuel

Quadrillion BTUs

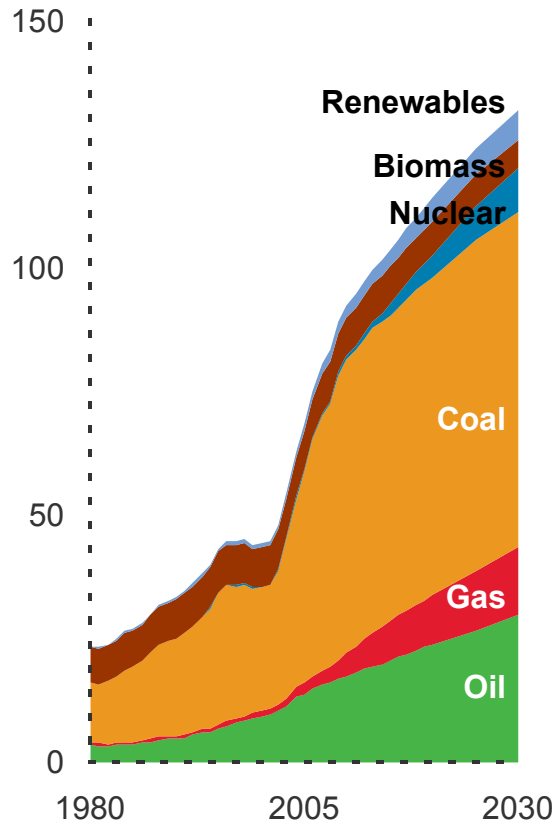


China Energy Demand & Supply



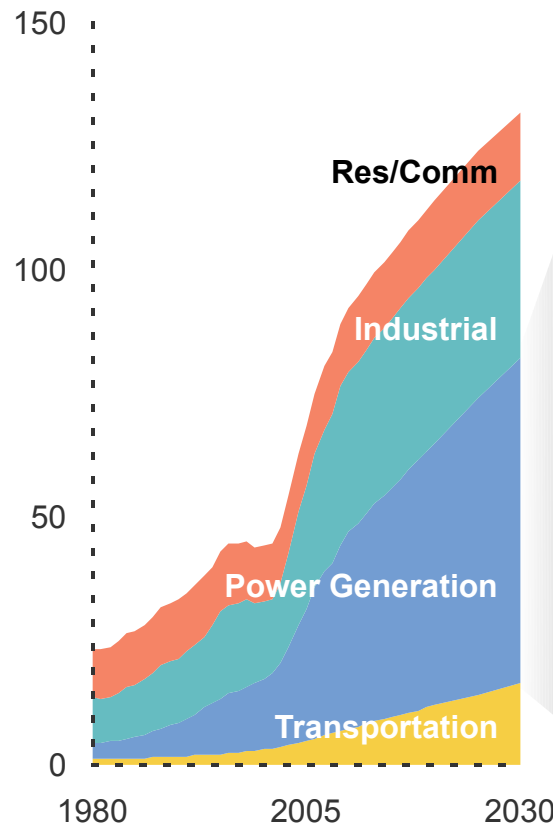
Total By Fuel

Quadrillion BTUs



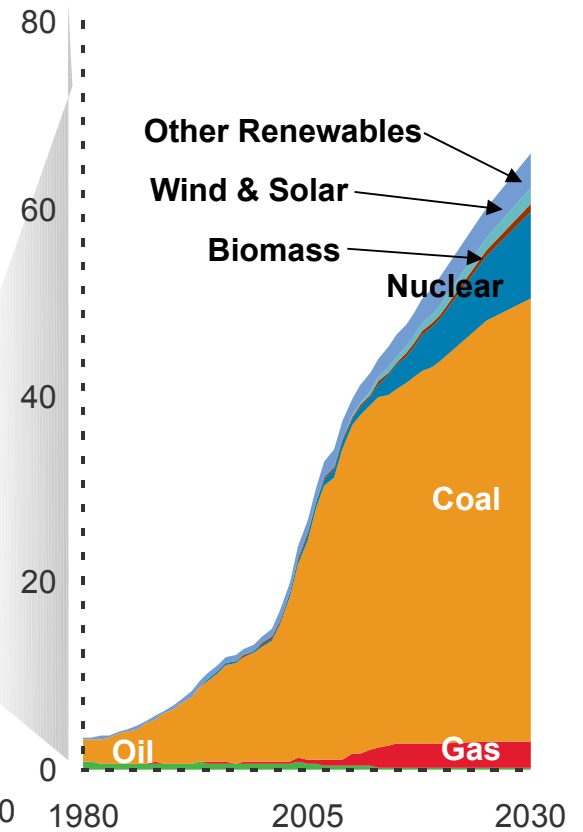
Total By Sector

Quadrillion BTUs

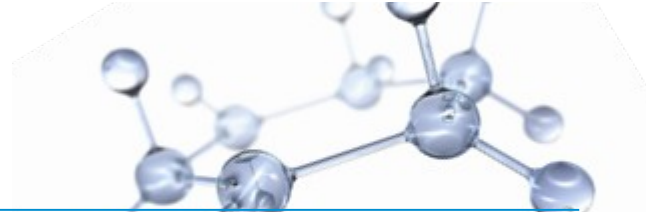


Power Generation by Fuel

Quadrillion BTUs

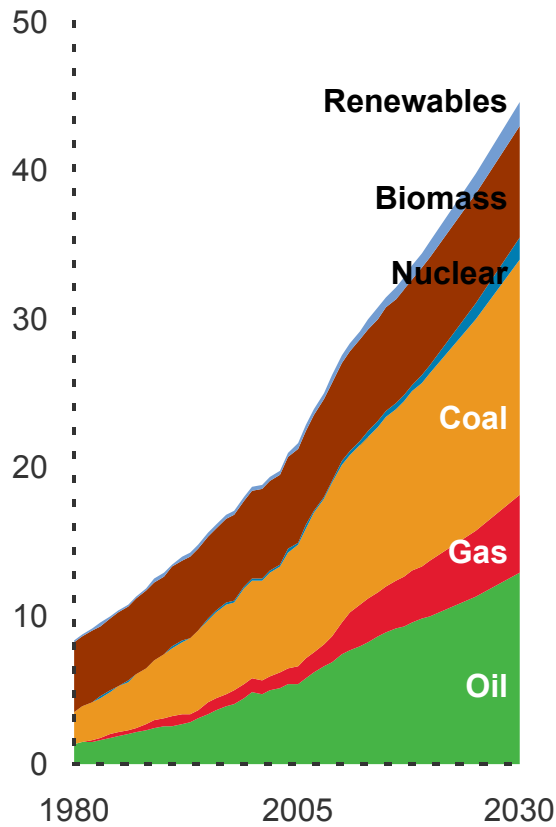


India Energy Demand & Supply



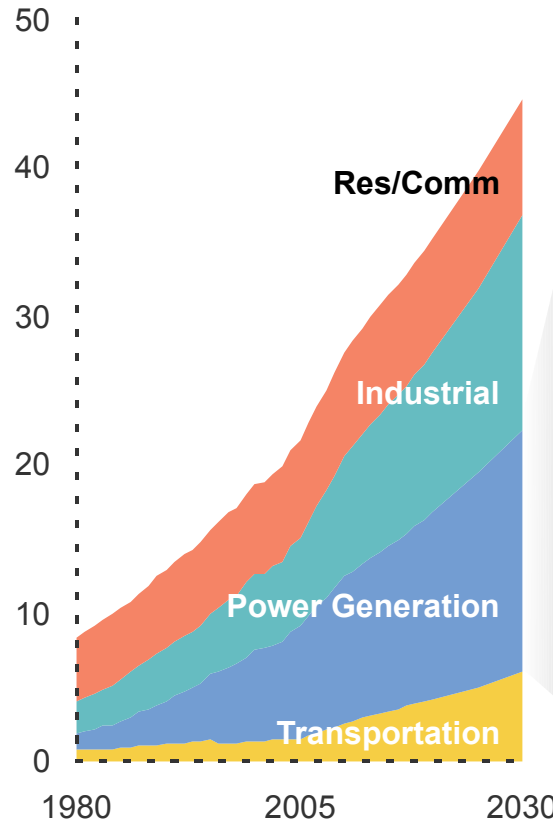
Total By Fuel

Quadrillion BTUs



Total By Sector

Quadrillion BTUs



Power Generation by Fuel

Quadrillion BTUs

