

# The Outlook for Energy: A View to 2040

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3 June 2015

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](http://www.exxonmobil.com). The information provided includes ExxonMobil's internal estimates and forecasts based upon internal data and analyses as well as publicly-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 Development

**100 countries**

**15 demand  
sectors**

**trade  
flows**

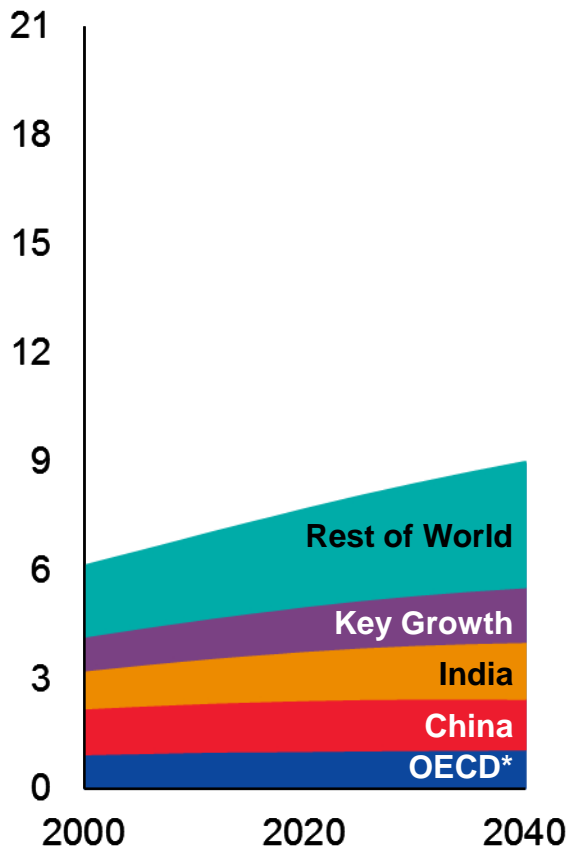
**20 fuel  
types**

**technology & policy**

# Global Progress Drives Demand

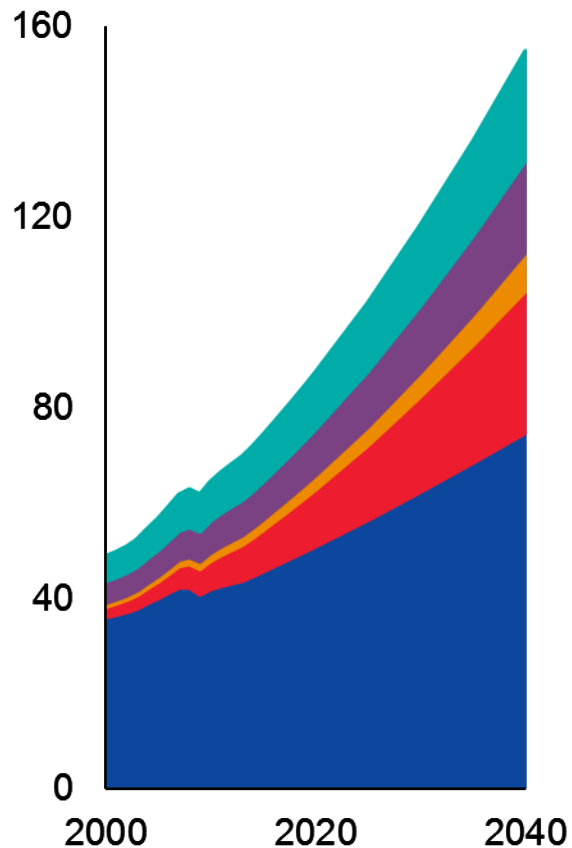
## Population

Billion



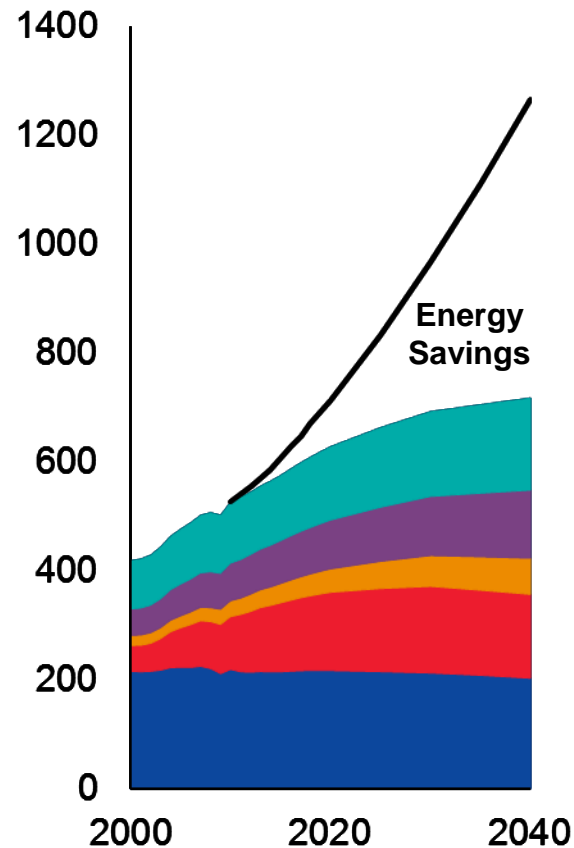
## GDP

Trillion 2010\$



## Energy Demand

Quadrillion BTUs

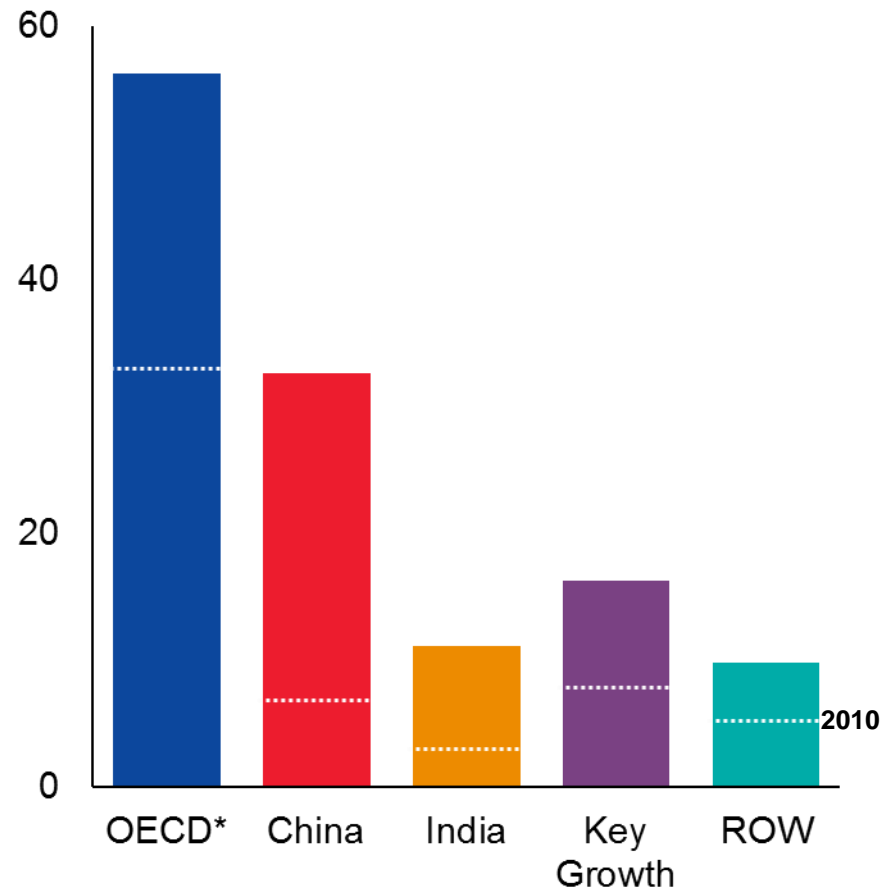


*\*Mexico and Turkey included in Key Growth countries*

# Standards of Living Increase in the Non OECD

## 2040 GDP per Capita

PPP 2005\$k



\*Mexico and Turkey included in Key Growth countries

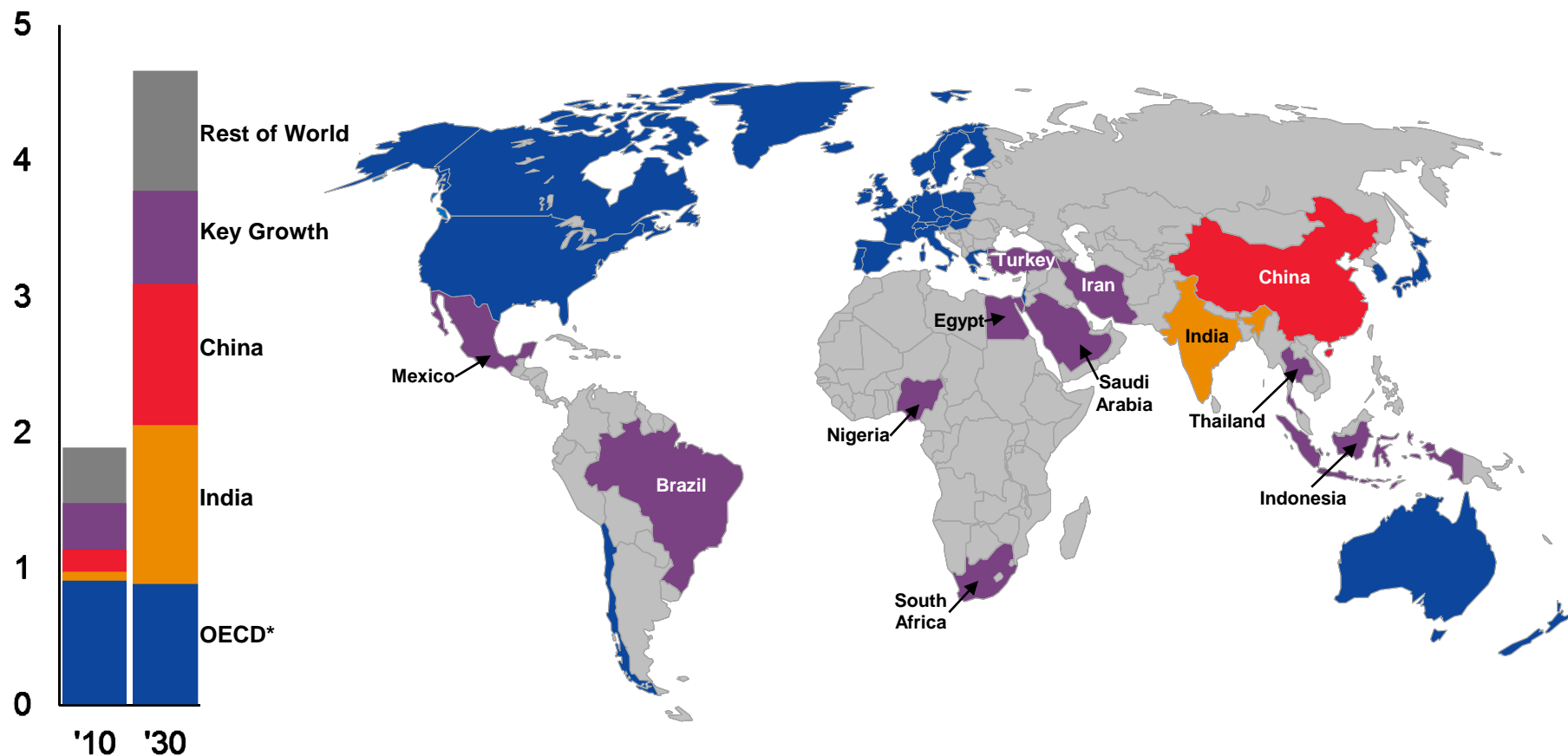




# The Middle Class Continues to Grow

## Middle Class per The Brookings Institution

Billion People

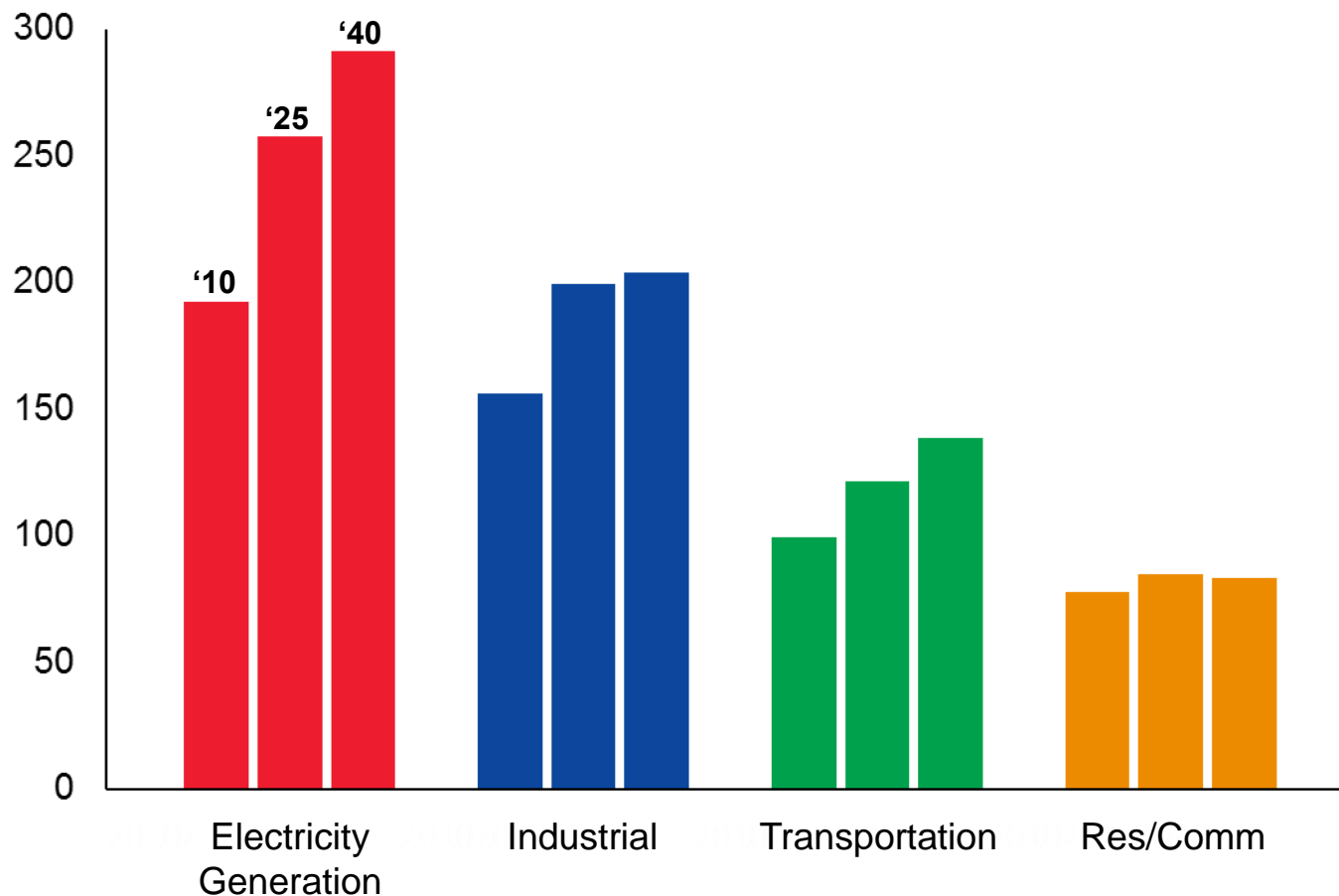


*\*Mexico and Turkey included in Key Growth countries*

# Electricity Generation Leads Growth

## Primary Energy Demand by Sector

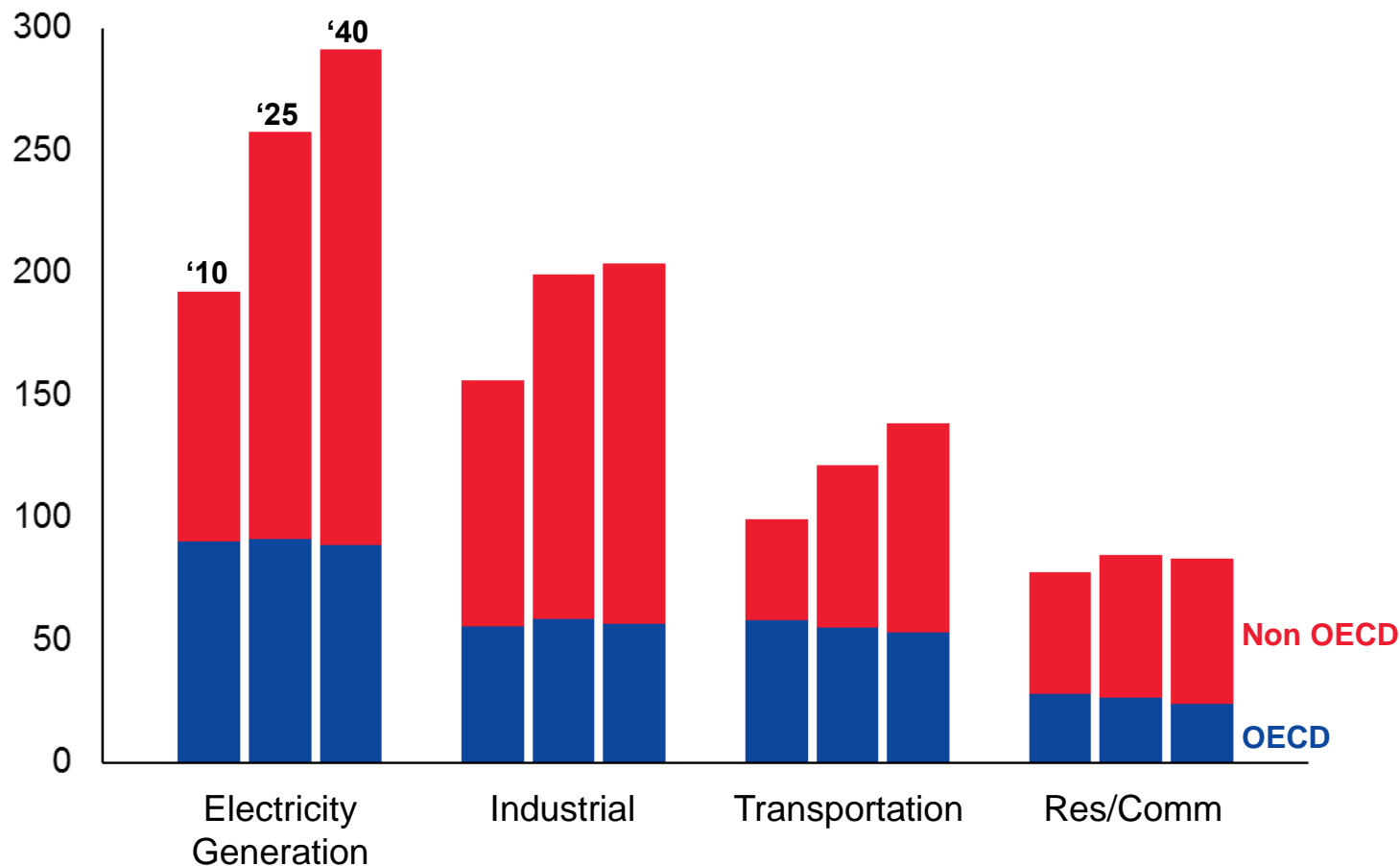
Quadrillion BTUs



# Electricity Generation Leads Growth

## Primary Energy Demand by Sector

Quadrillion BTUs



# Transportation

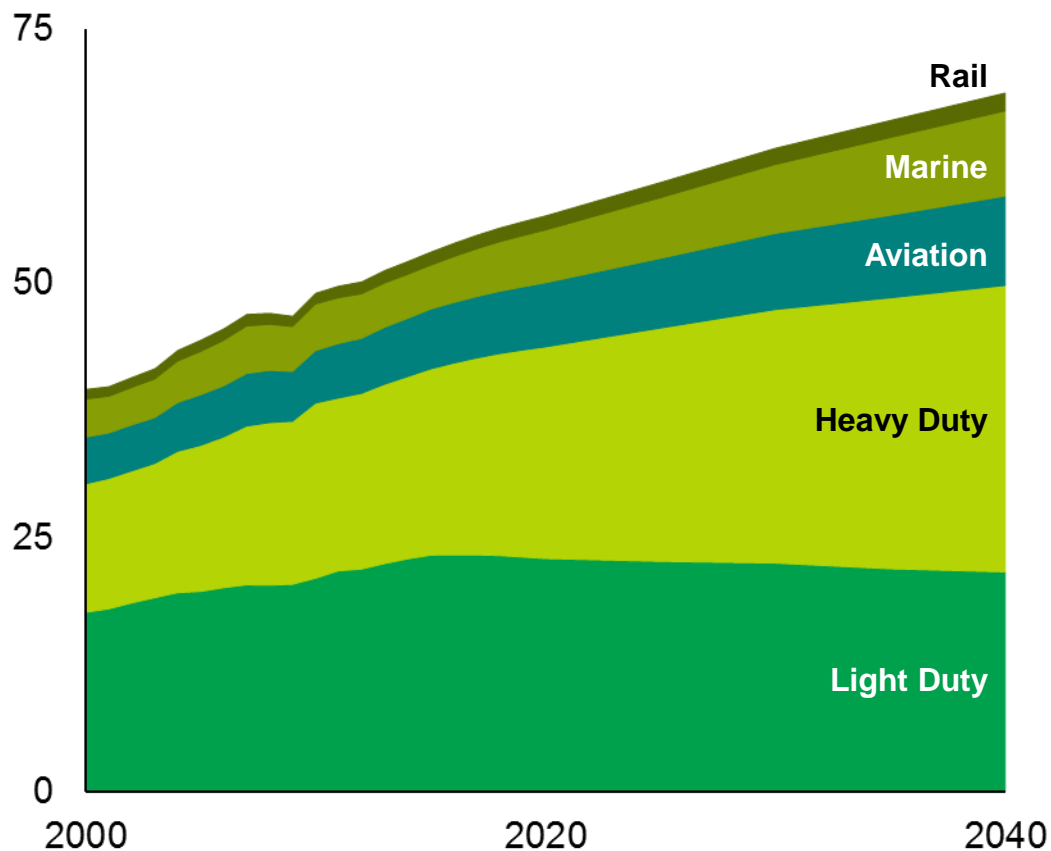




# Transportation Demand

## Sector Demand

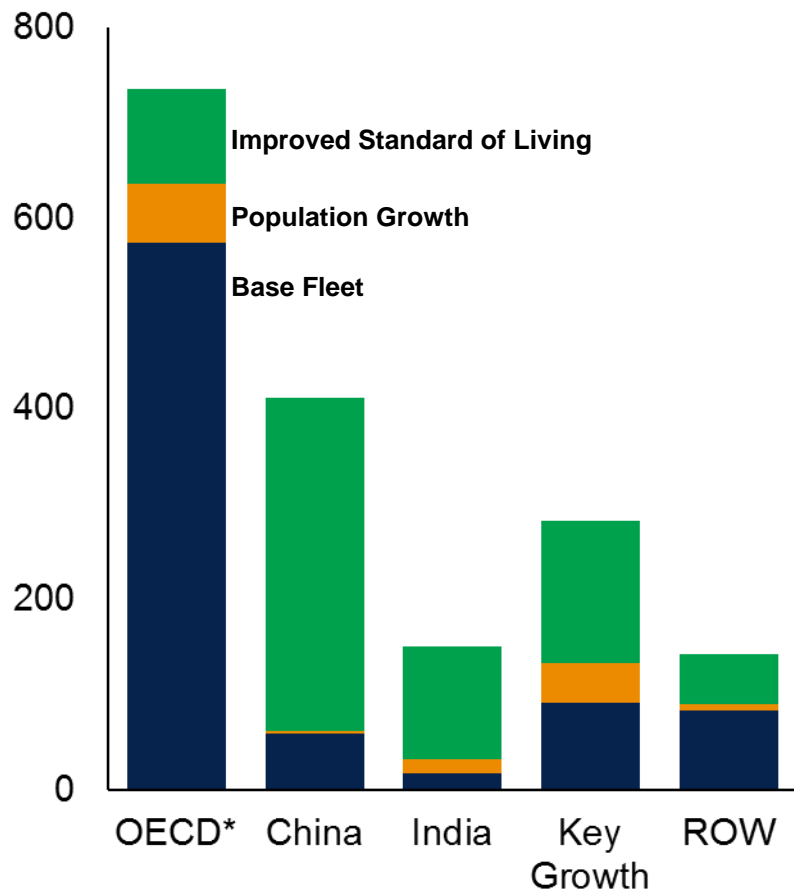
MBDOE



# Light Duty Vehicle Fleet and Demand

## 2040 LDV Fleet

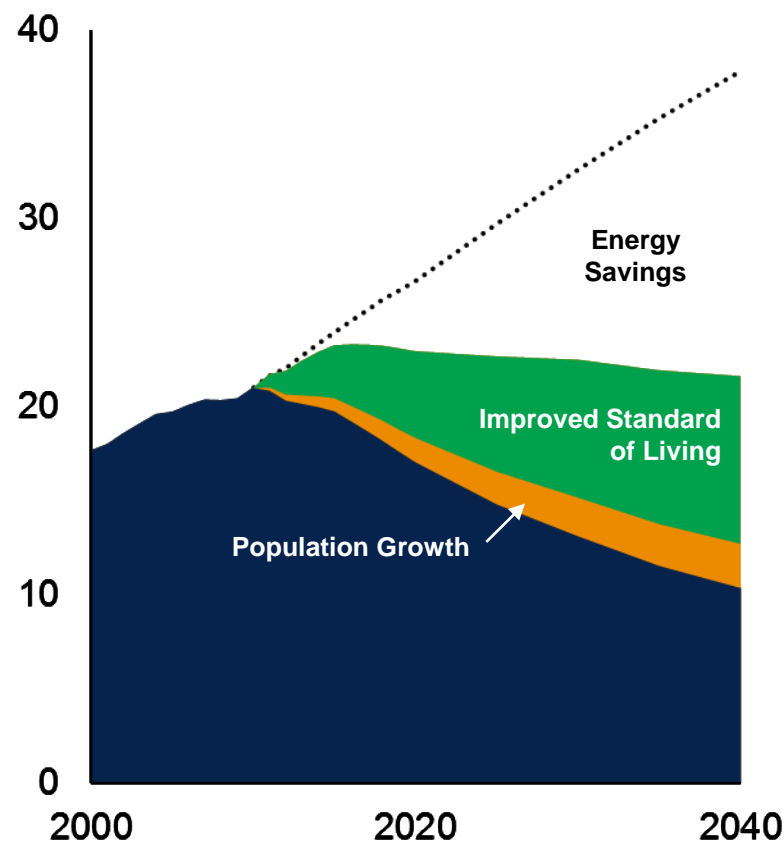
Million



*\*Mexico and Turkey included in Key Growth countries*

## World LDV Demand

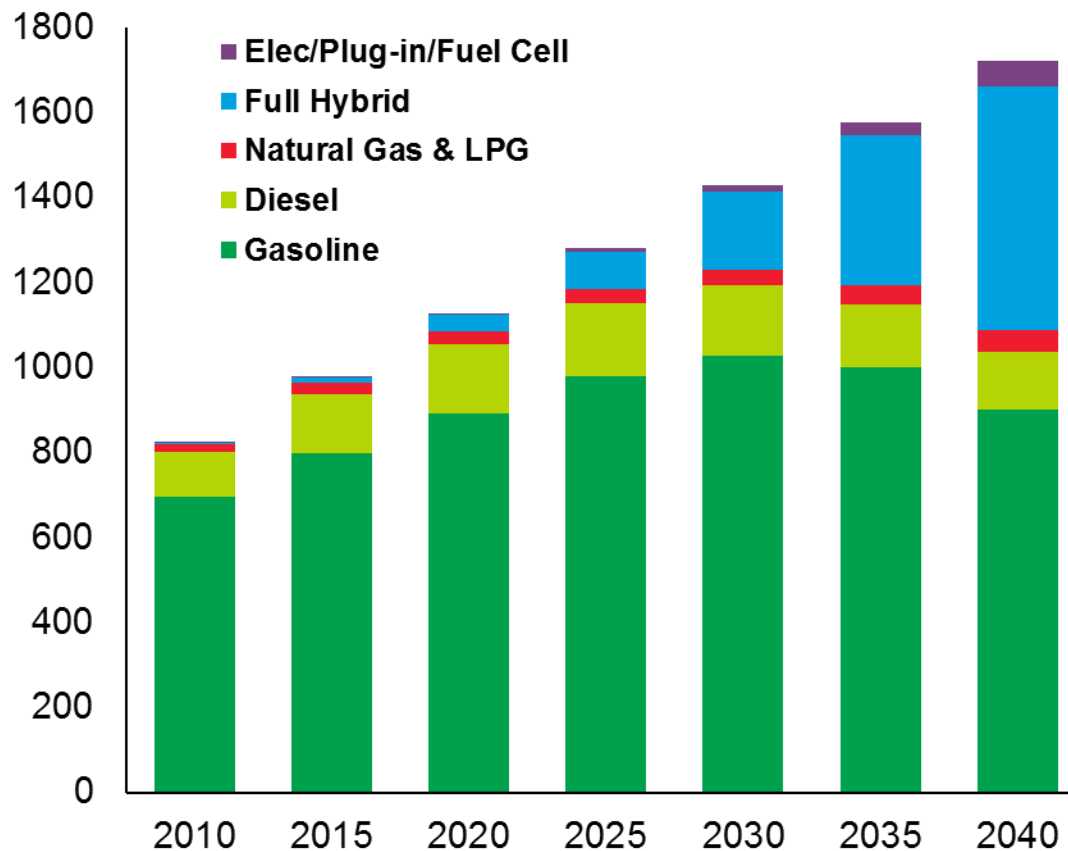
MBDOE



# Light Duty Vehicles

## Fleet by Type

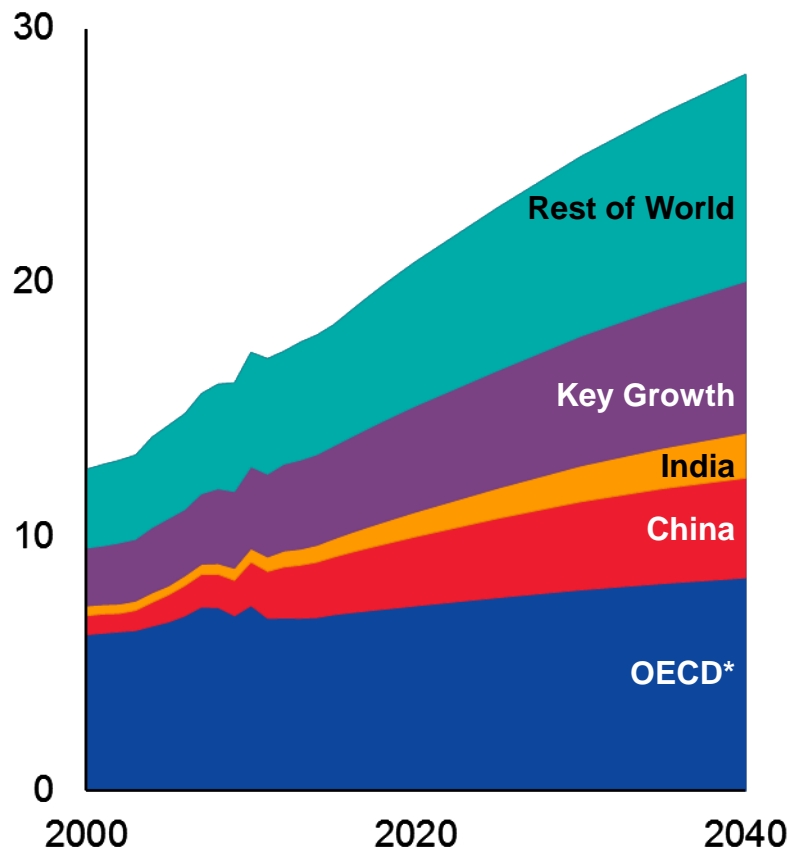
Million



# Heavy Duty Transportation

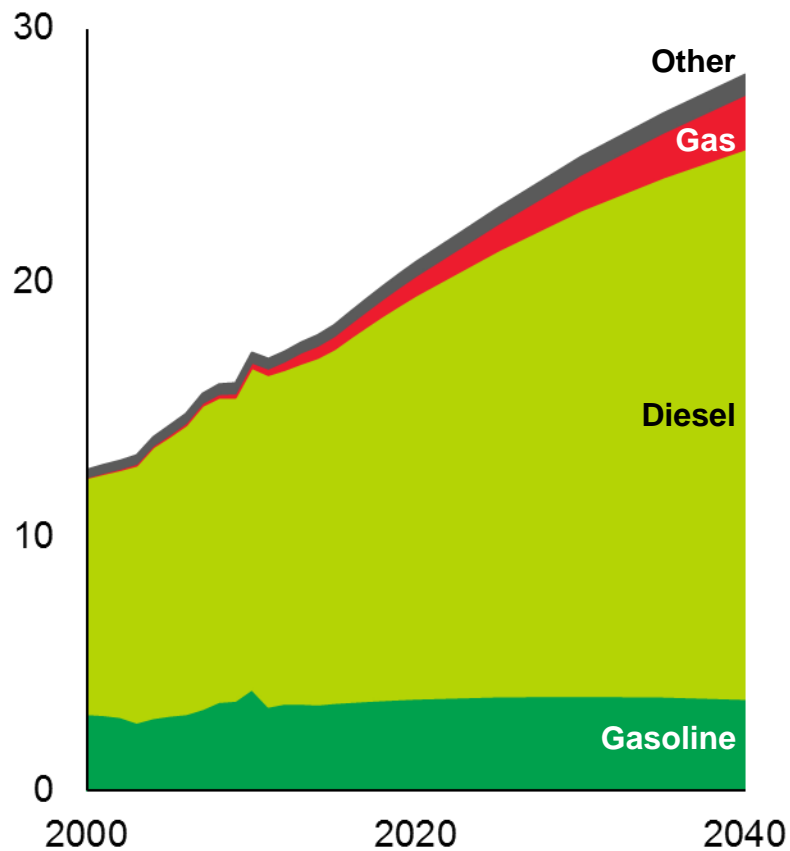
## Heavy Duty Demand by Region

MBDOE



## Heavy Duty Demand by Fuel

MBDOE



*\*Mexico and Turkey included in Key Growth countries*



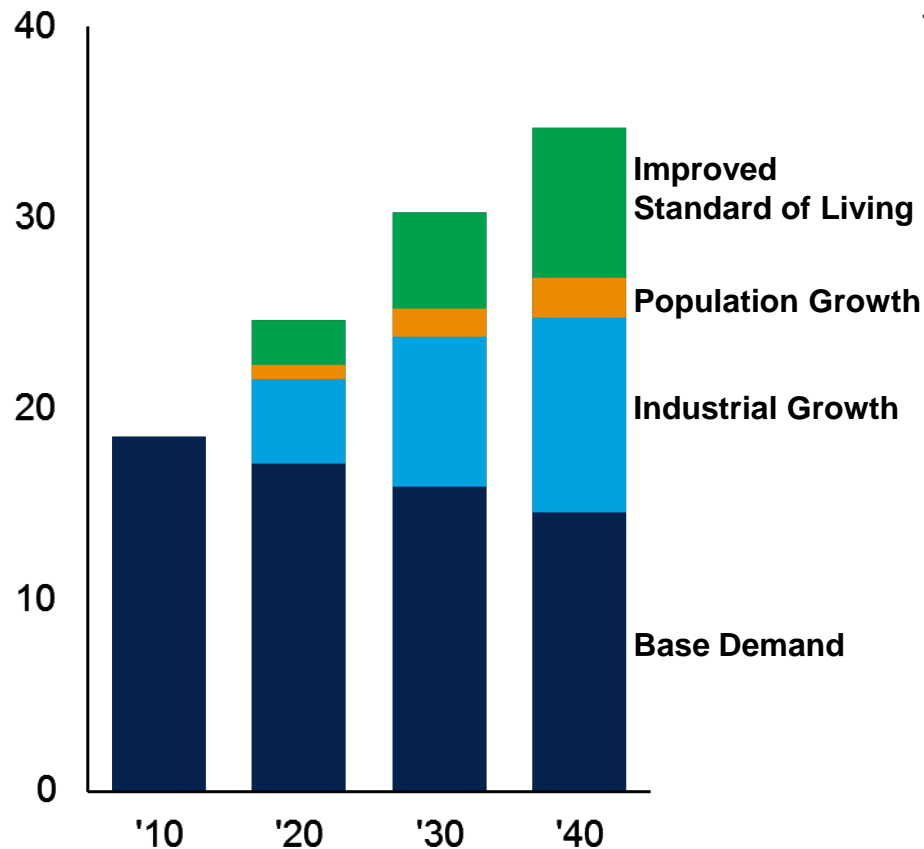
# Electricity Generation



# Electricity Demand

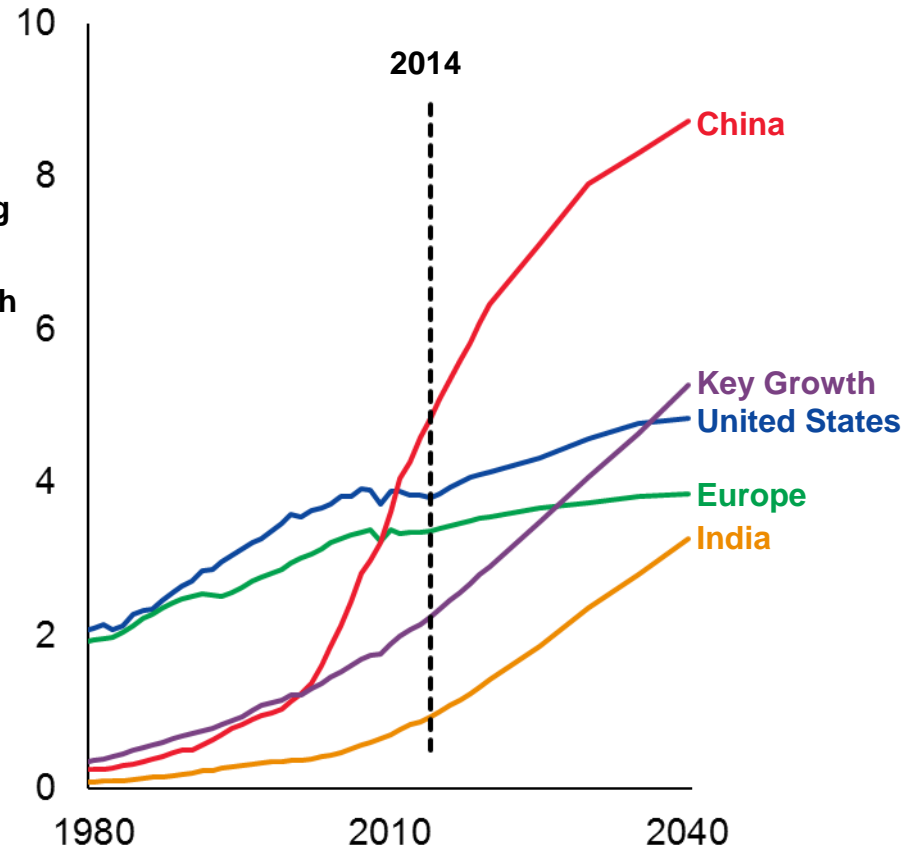
## Electricity Demand

Thousand TWh

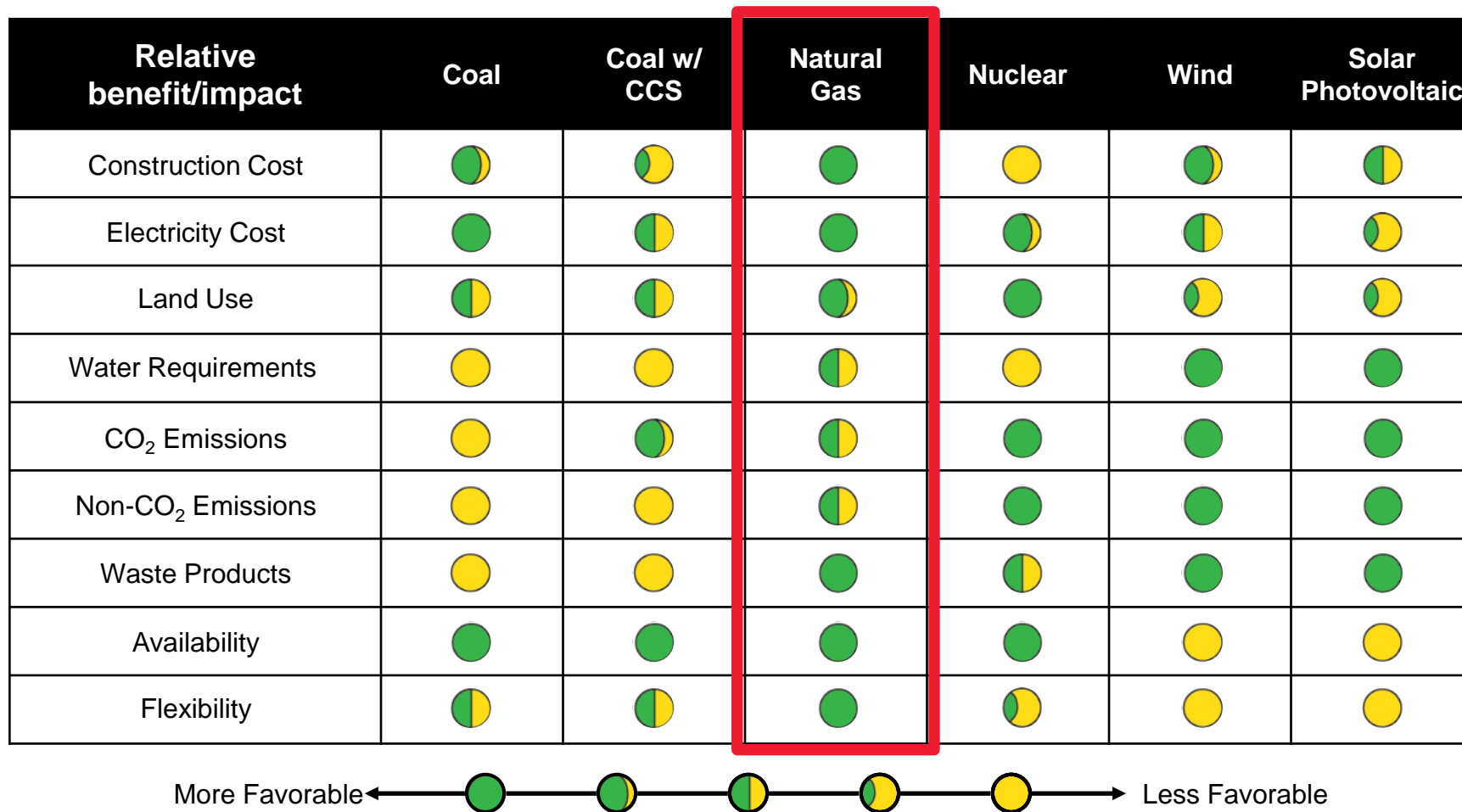


## Electricity Demand by Region

Thousand TWh



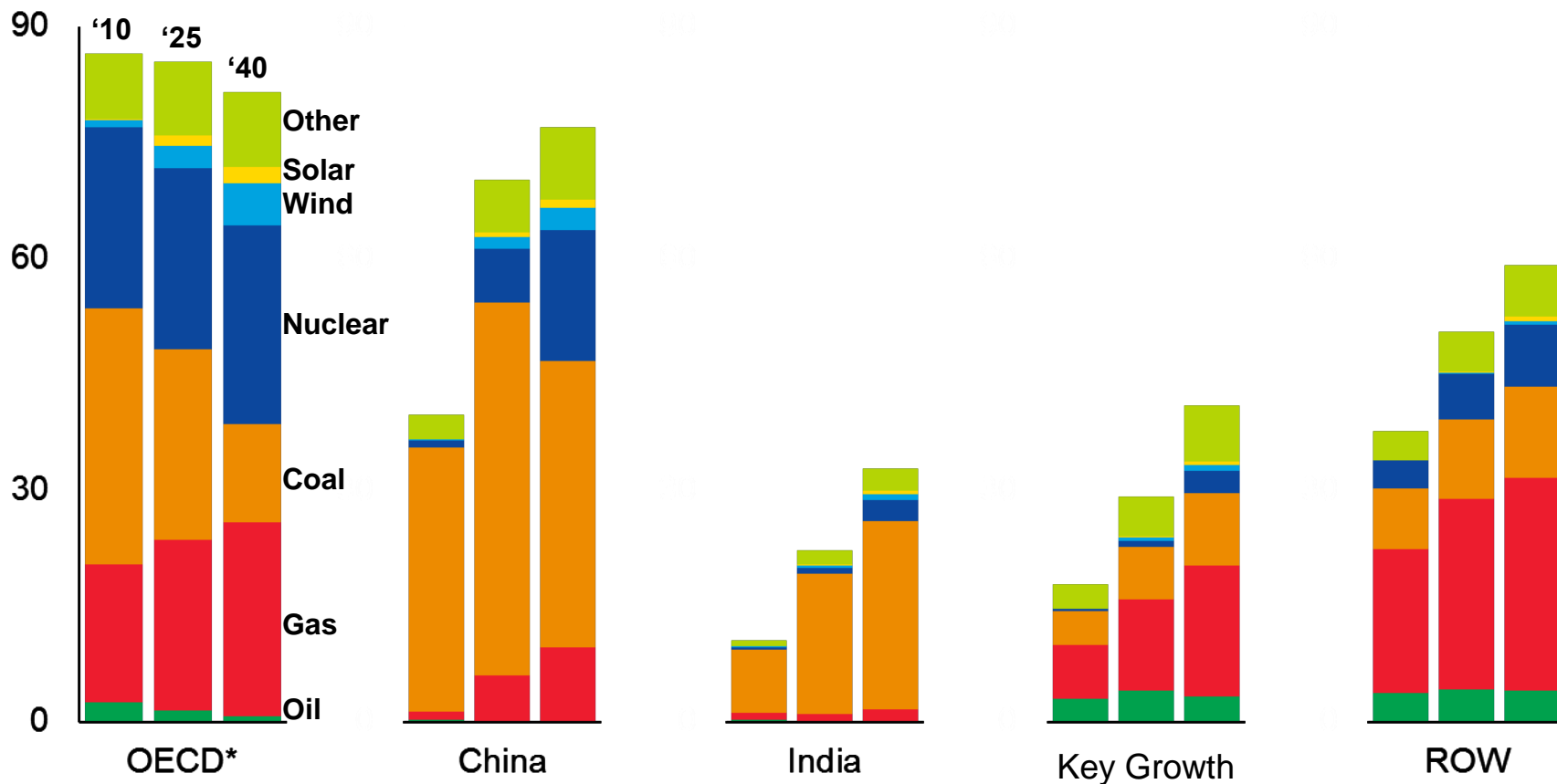
# Fuel Choices for Power Generation



Source: EPRI, Generation Technology Assessment

# Electricity Generation Fuel by Region

Quadrillion BTUs



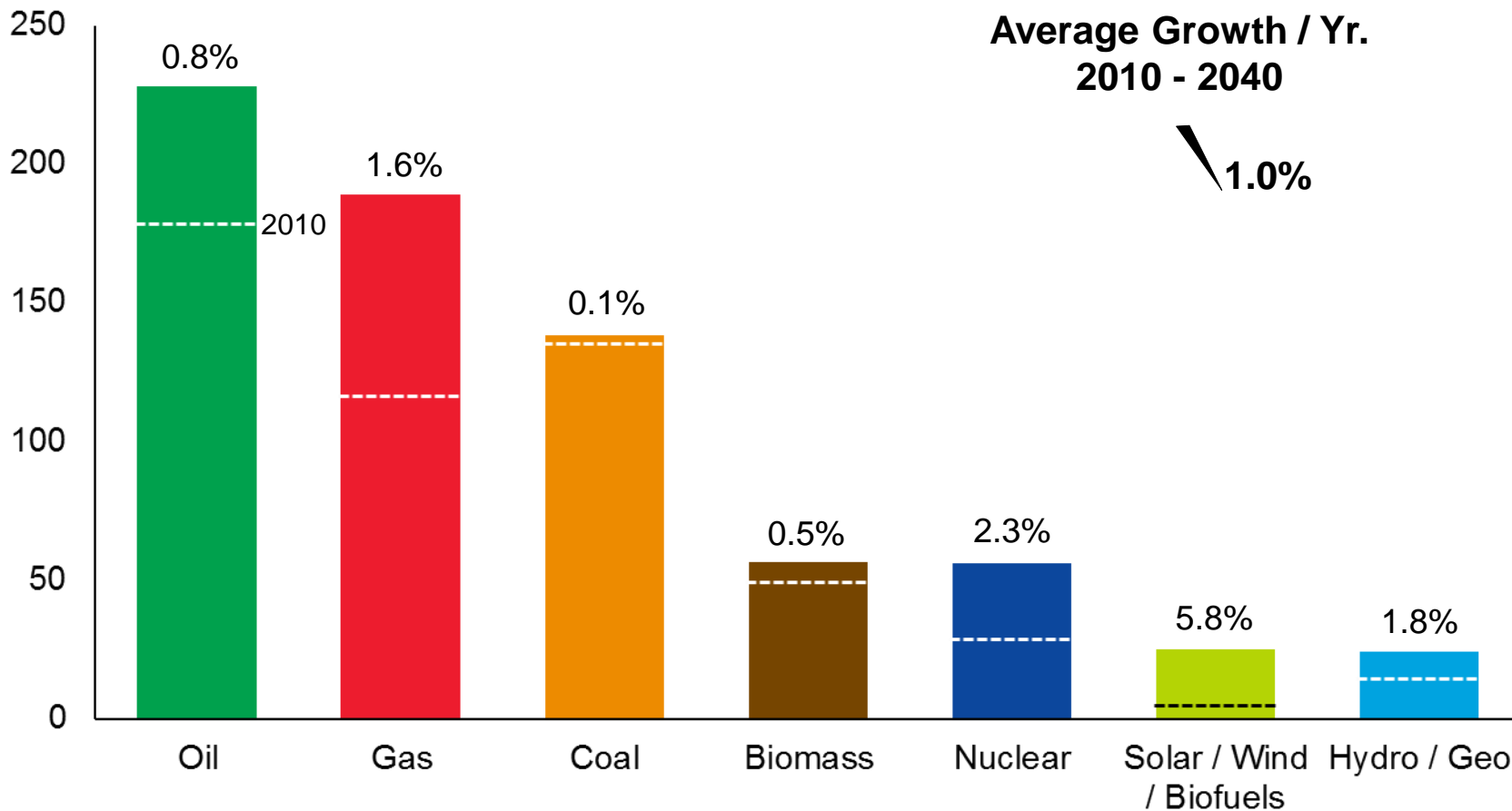
\*Mexico and Turkey included in Key Growth countries



# Global Demand

## 2040 By Fuel

Quadrillion BTUs



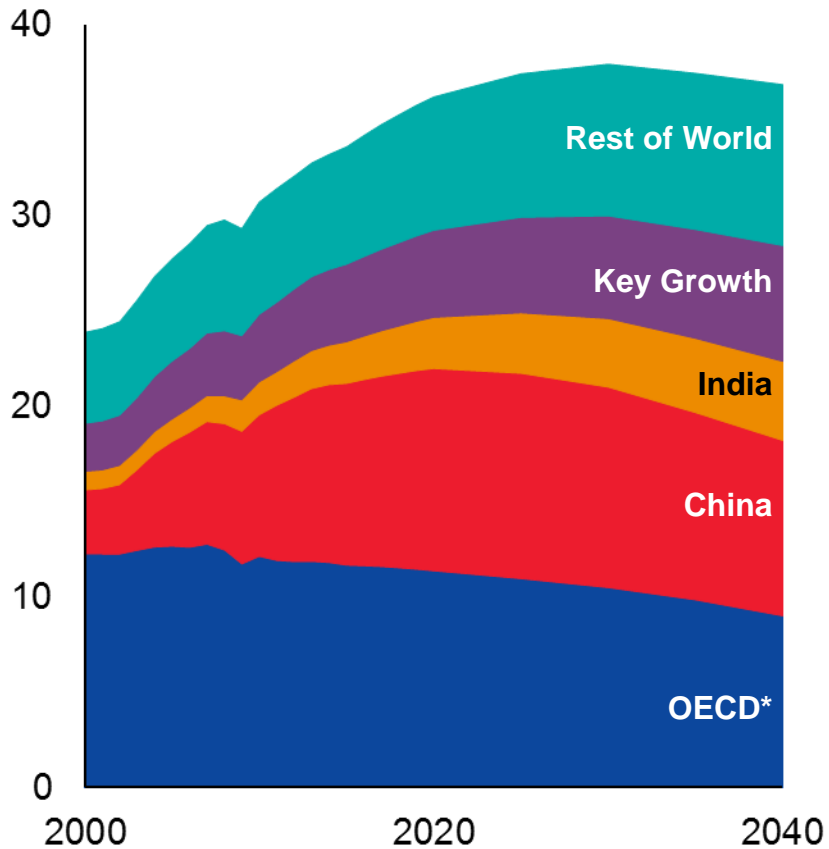
# CO<sub>2</sub> Emissions



# World Emissions

## CO<sub>2</sub> Emissions by Region

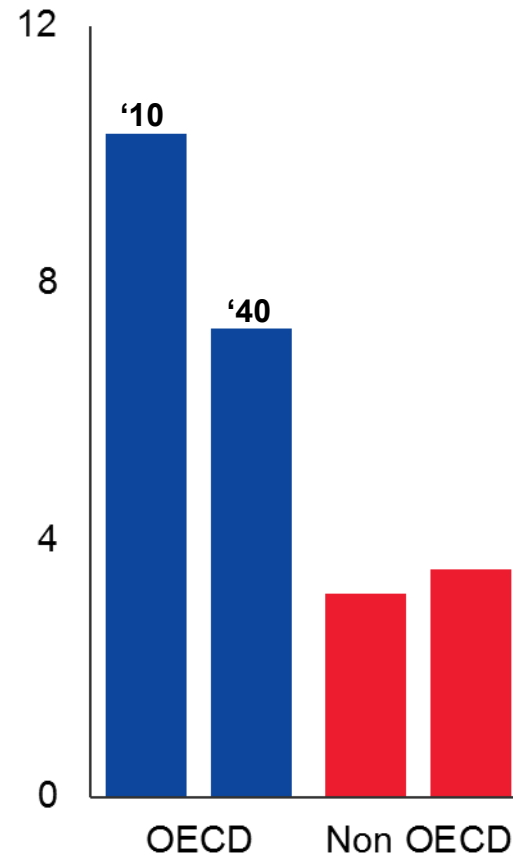
Billion metric tonnes



*\*Mexico and Turkey included in Key Growth countries*

## Emissions per Capita

Tonnes / Person



A tall, illuminated drilling rig stands prominently on a snow-covered mountain slope. The rig is yellow and black, with the word "PACIFIC" visible on its base. The surrounding landscape is rugged and covered in a thin layer of snow, with dark evergreen trees scattered across the slopes. In the background, more snow-capped mountains rise against a twilight sky with soft, orange and blue hues. A small cluster of industrial buildings is visible to the right of the rig's base.

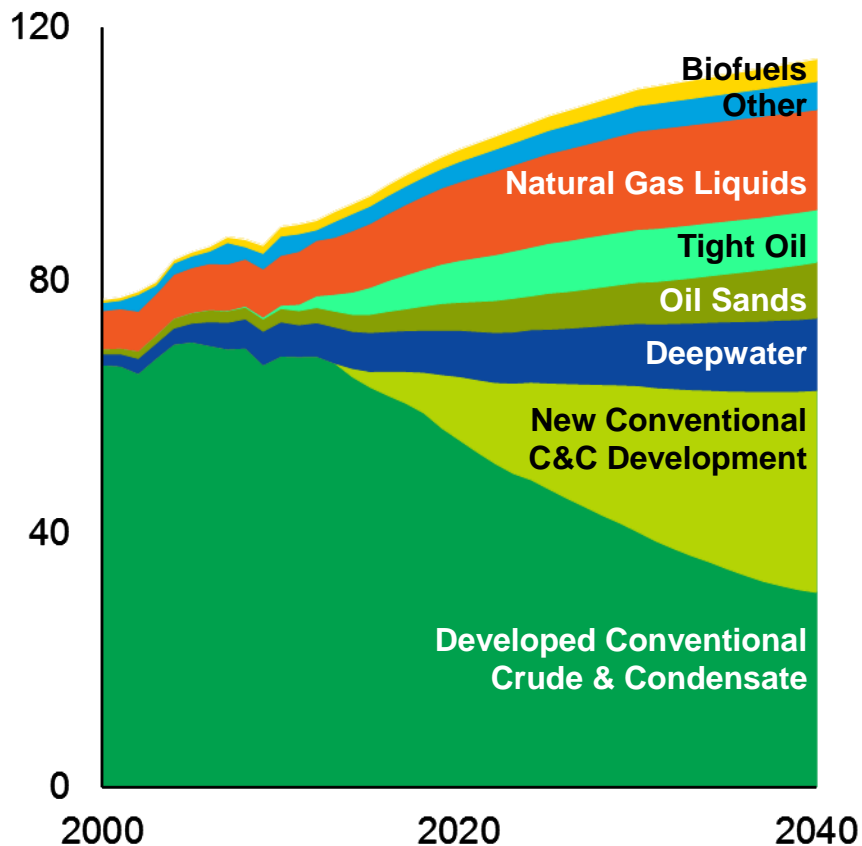
# Supply



# Liquids Supply

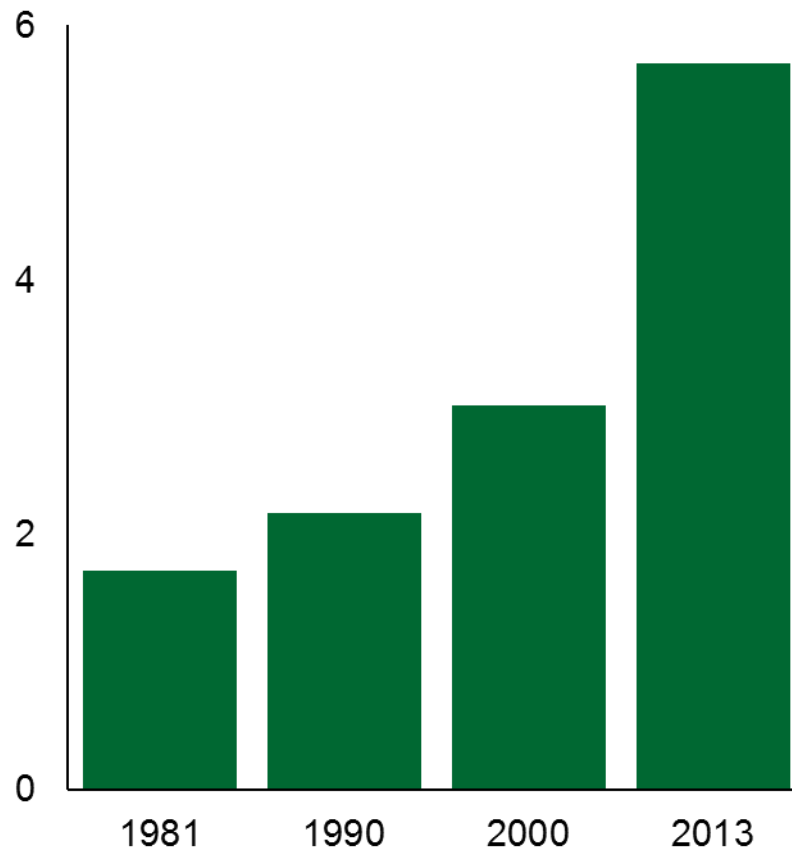
## World Supply by Type

MBDOE



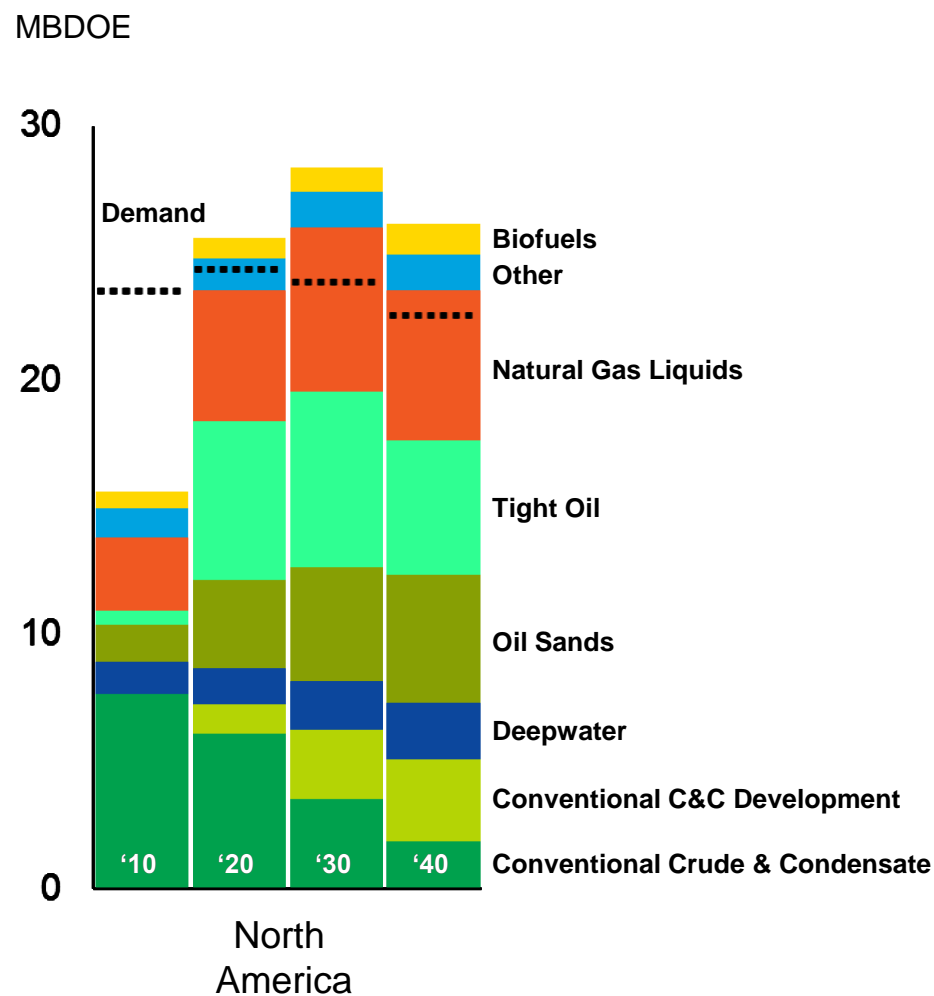
## Crude & Condensate Resource Estimates

Trillion Barrels

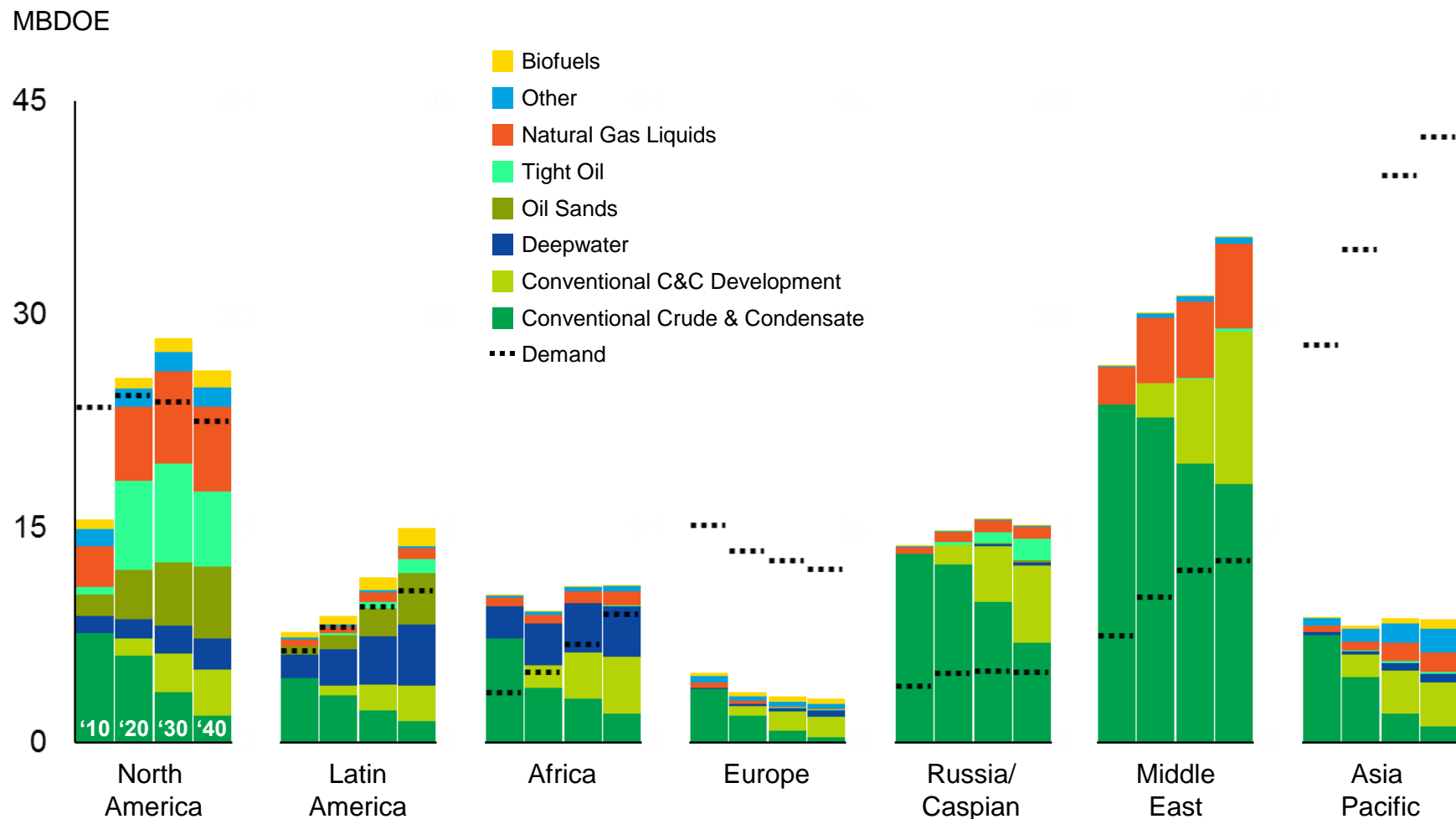


Source: USGS and IEA historical estimates

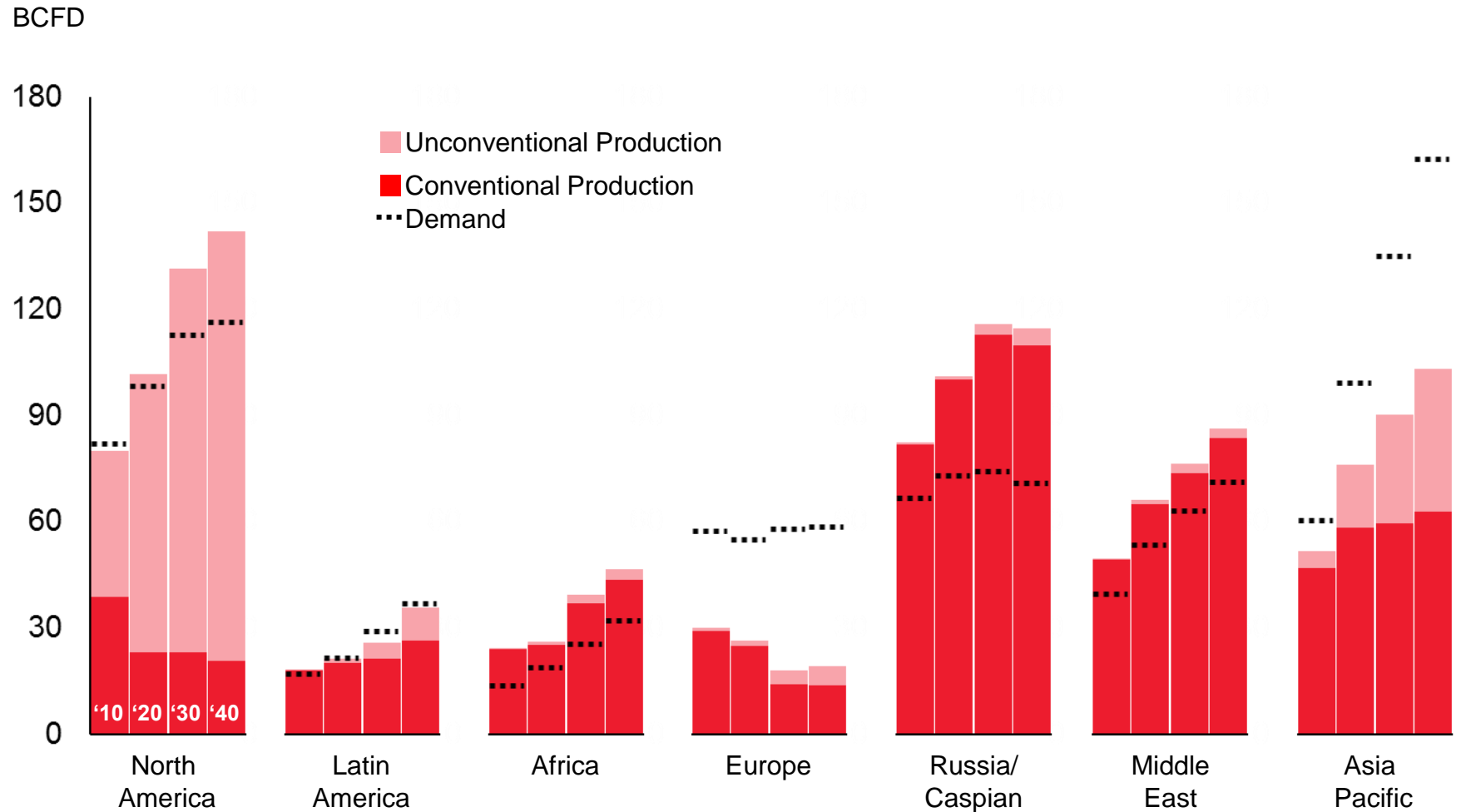
# Liquids Trade Balance by Region



# Liquids Trade Balance by Region



# Gas Trade Balance by Region

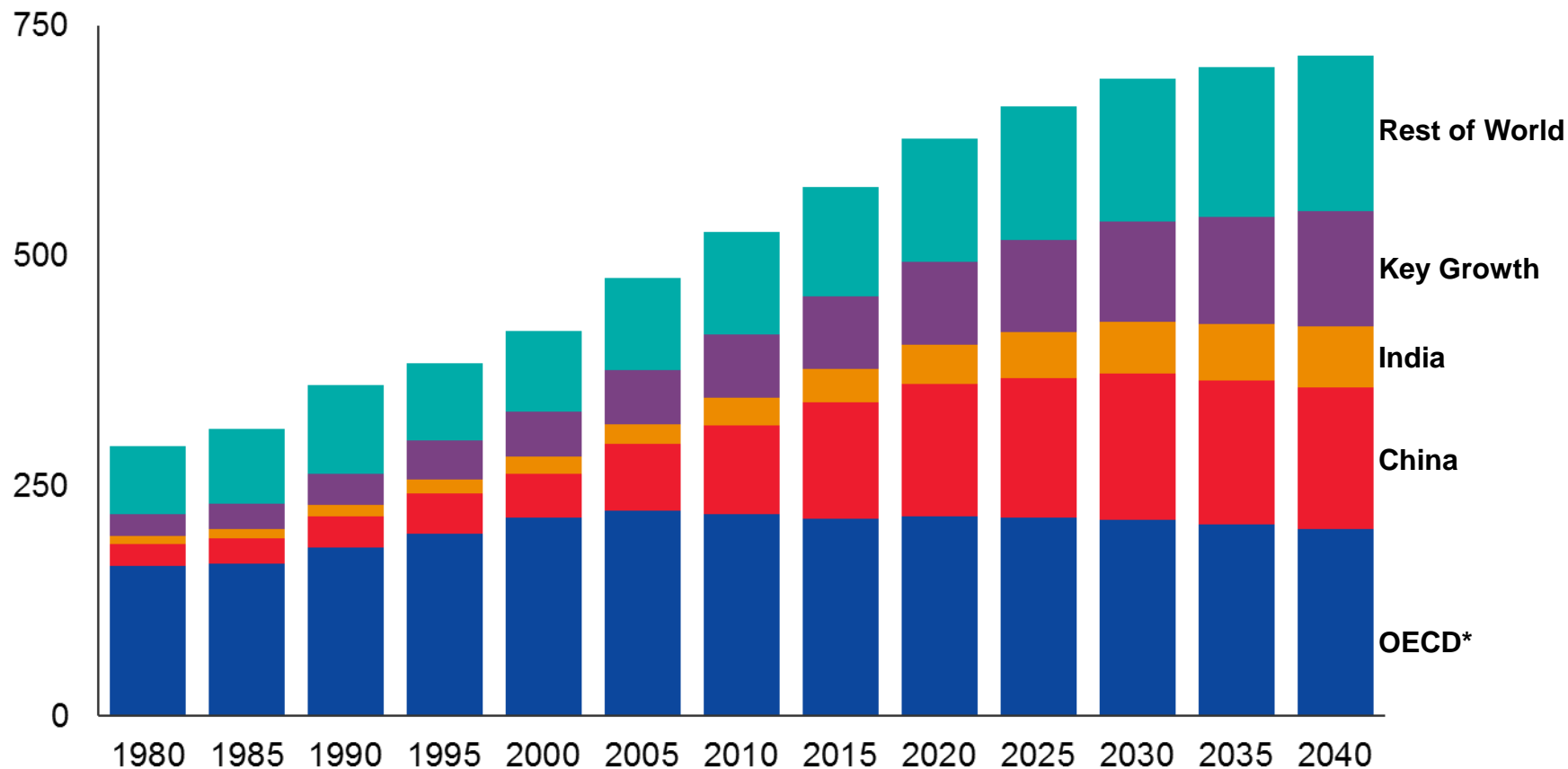




# Developing Economies Dominate Growth

## Demand by Region

Quadrillion BTUs

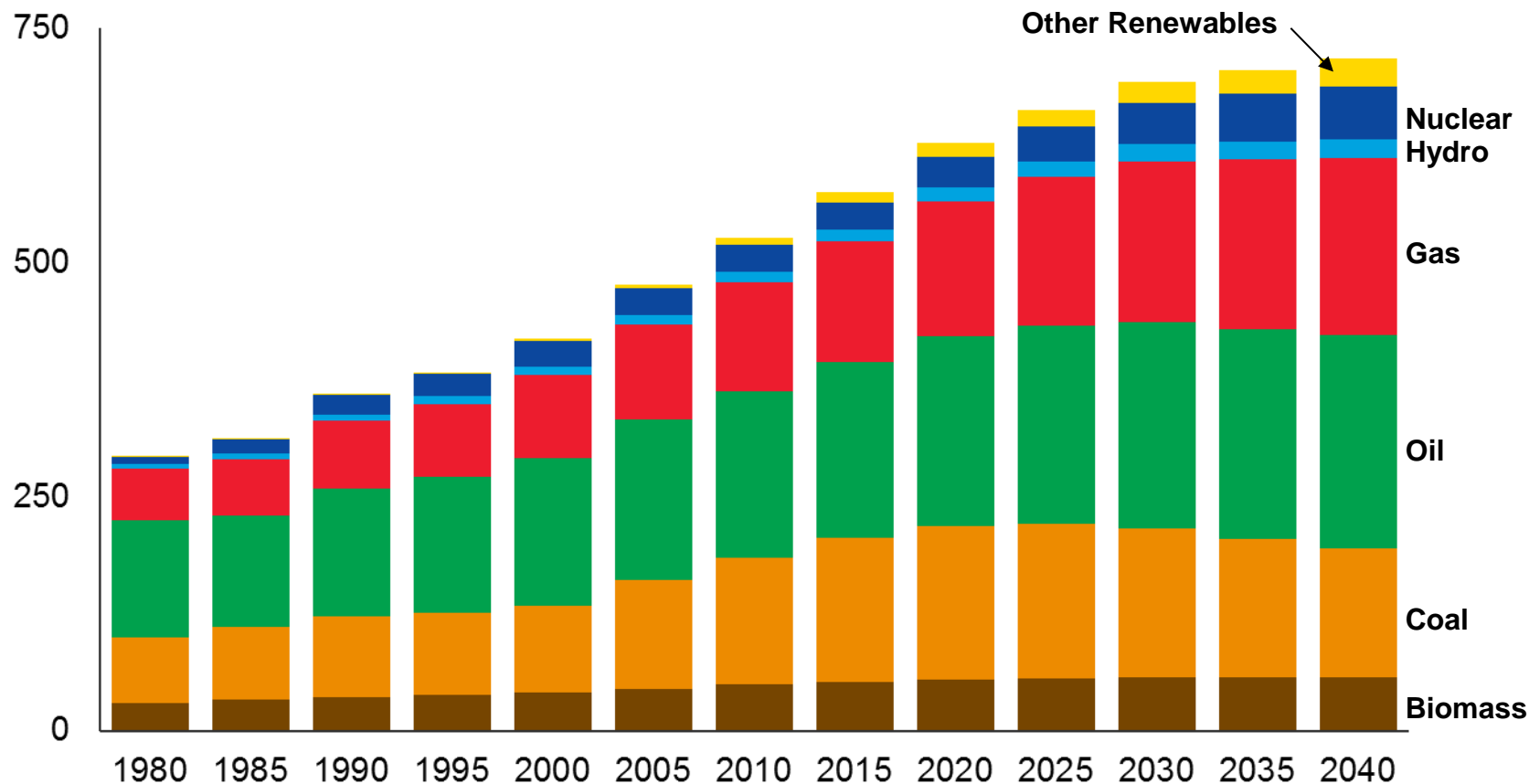


*\*Mexico and Turkey included in Key Growth countries*

# Energy Use Evolves Over Time

## Demand by Fuel

Quadrillion BTUs



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