Global energy markets















For

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by

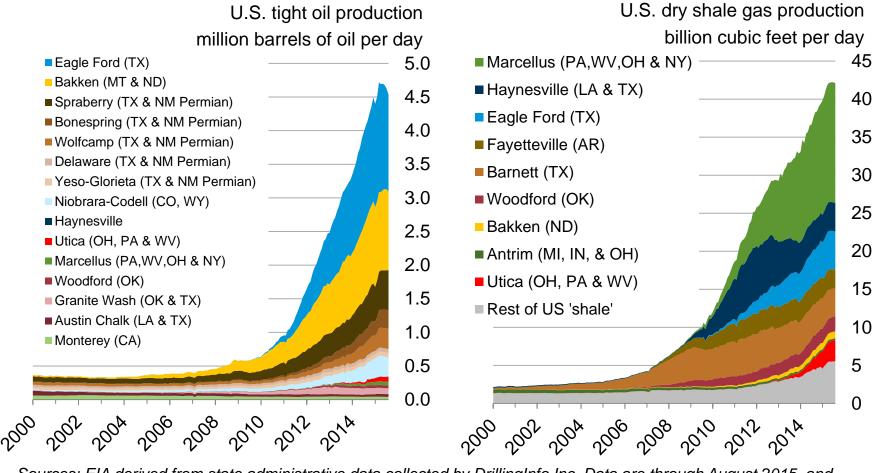
Adam Sieminski, Administrator U.S. Energy Information Administration



Short-term outlook



The U.S. has experienced a rapid increase in natural gas and oil production from shale and other tight resources

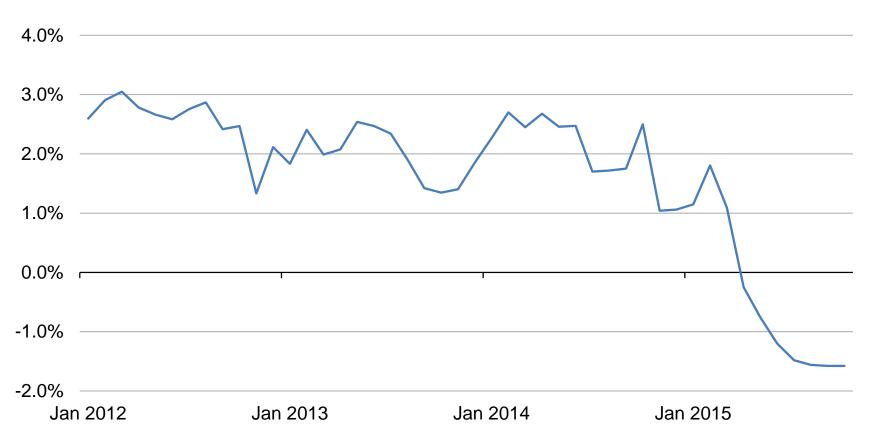


Sources: EIA derived from state administrative data collected by DrillingInfo Inc. Data are through August 2015 and represent EIA's official tight oil & shale gas estimates, but are not survey data. State abbreviations indicate primary state(s).



Production growth in top U.S. crude producing regions (Permian, Bakken, Niobrara, and Eagle Ford) reverses in early 2015

monthly percent change three month rolling average

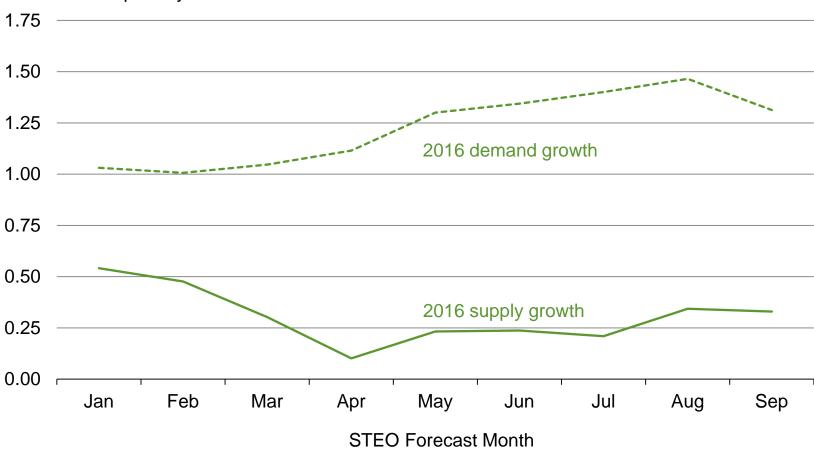


Source: Energy Information Administration, Drilling Productivity Report, September 2015 (chart extends to October 2015)



Forecasts for 2016 global demand have increased while supply forecasts have decreased

2016 year-over-year supply and demand growth by STEO forecast month million barrels per day

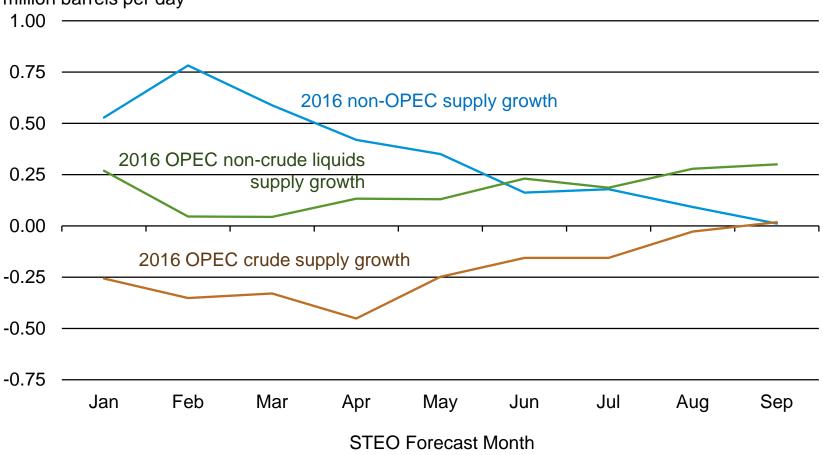


Source: Energy Information Administration, Short-Term Energy Outlook



Forecast for 2016 OPEC supply have risen on the Iran deal, while non-OPEC forecasts have declined, driven by lower U.S. growth

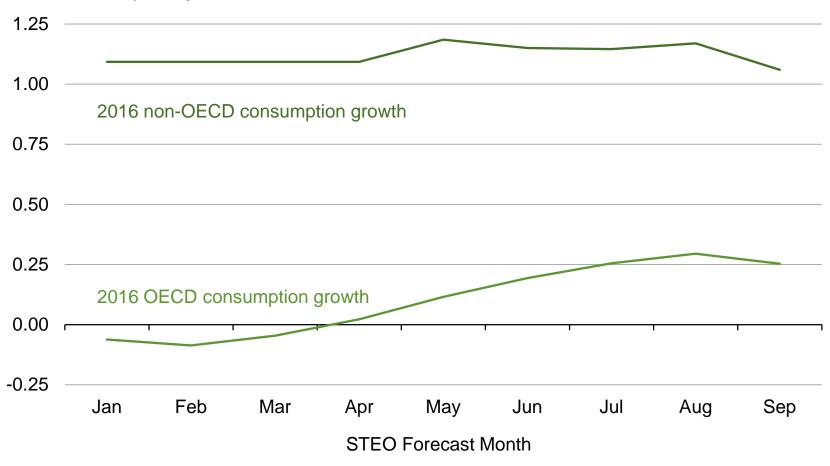
2016 year-over-year supply growth by STEO forecast month million barrels per day



Source: Energy Information Administration, Short-Term Energy Outlook

Forecast OECD demand growth for 2016 has been revised higher

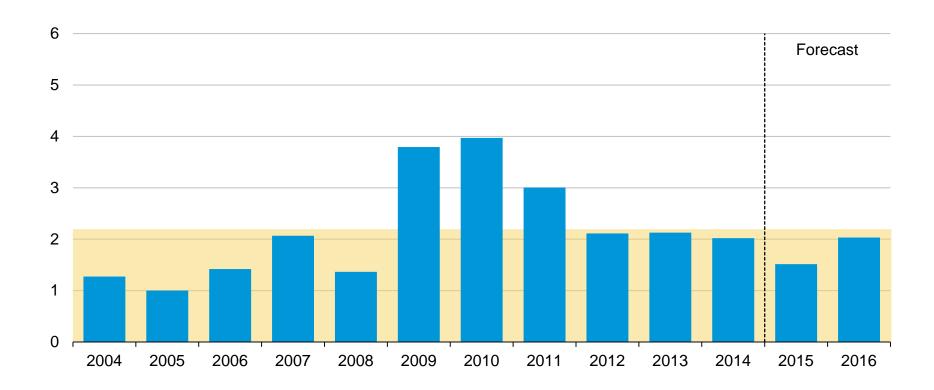
2016 year-over-year demand growth by STEO forecast month million barrels per day



Source: Energy Information Administration, Short-Term Energy Outlook

OPEC surplus production capacity in 2015 is lowest since 2008

OPEC surplus crude oil production capacity million barrels per day



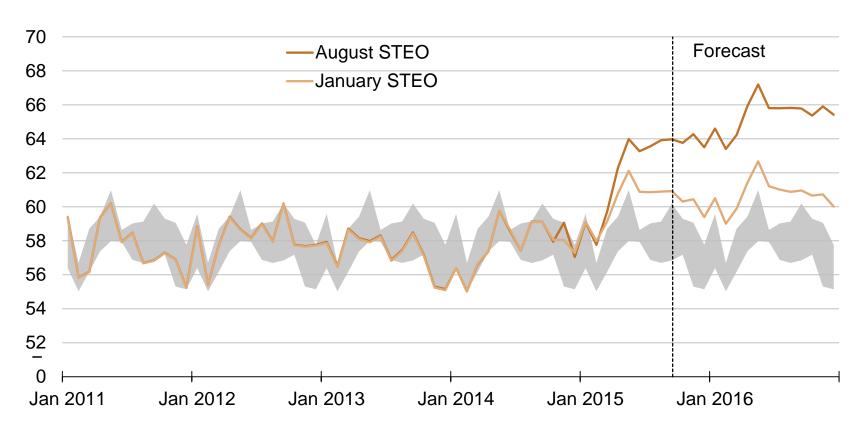
Note: Shaded area represents 2004-2014 average (2.2 million barrels per day).

Source: Energy Information Administration, Short-Term Energy Outlook, September 2015



OECD oil inventories are very high on a days of supply basis and are projected to continue increasing

OECD commercial oil inventories days of supply



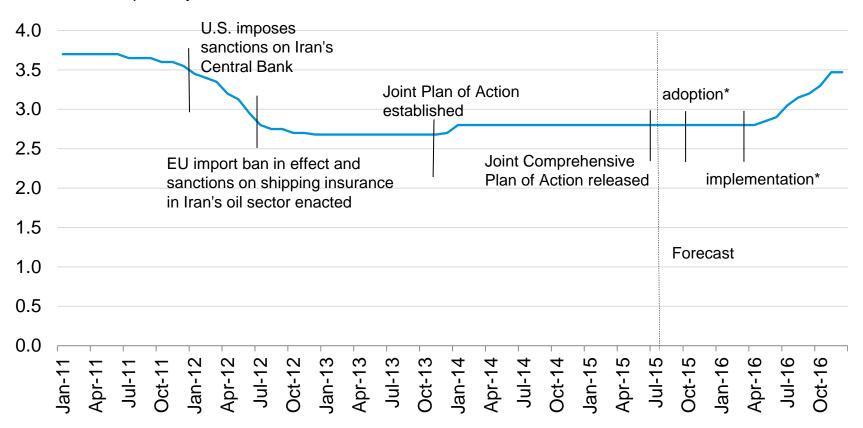
Source: Energy Information Administration, Short-Term Energy Outlook

Note: Colored band around oil stocks days of supply represents the range between the minimum and maximum from Jan. 2010 - Dec. 2014.



Iranian crude oil production is expected to begin increasing in the second quarter of 2016, supply out of inventory will be sold before that

Iranian crude oil production million barrels per day

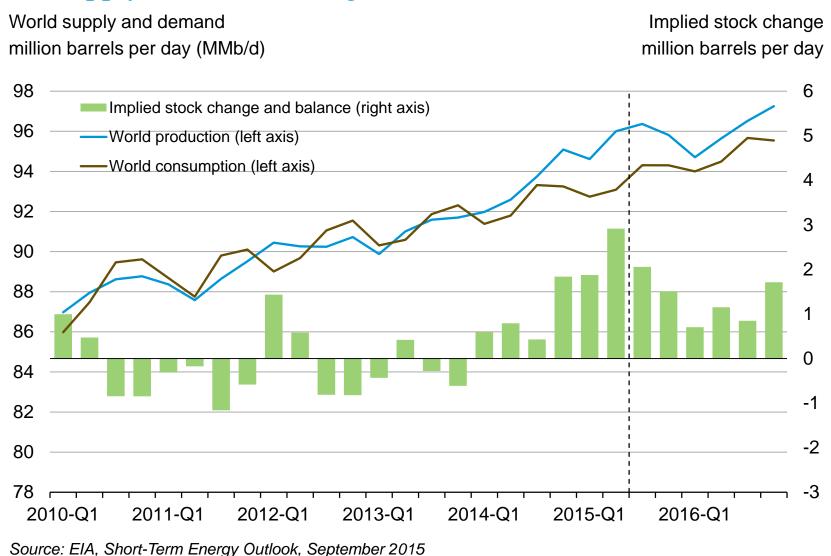


Source: Energy Information Administration

*EIA's assessment

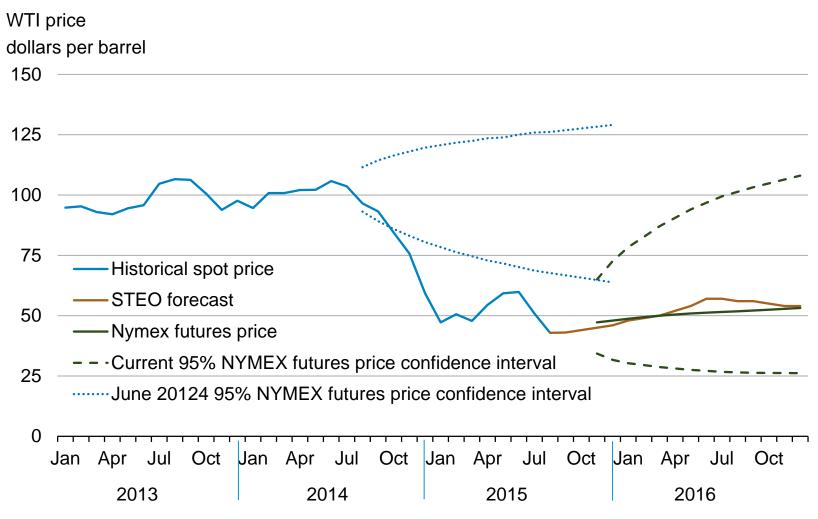


Oil supply and demand begin to rebalance in 2016





For oil prices, the market-implied confidence band is very wide



Source: EIA, Short-Term Energy Outlook, July 2015

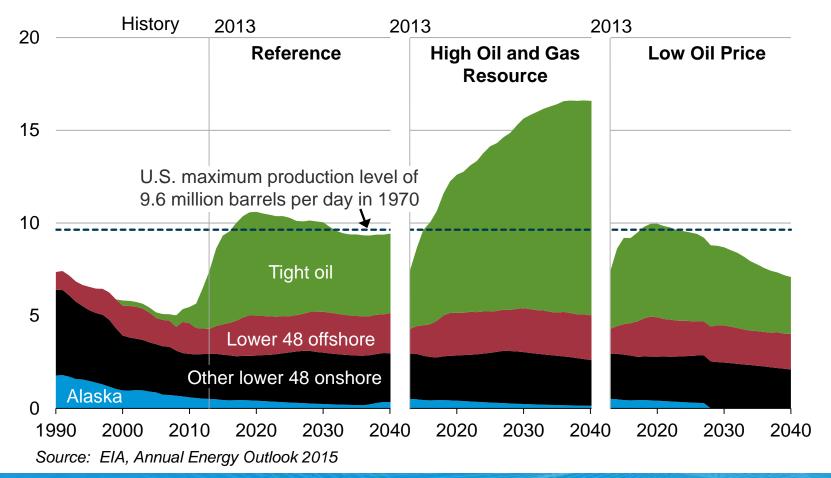


Long-term outlook for the United States



U.S. crude oil production: Supply rises above previous historical highs before 2020 in all AEO2015 cases, with a range of longer-term outcomes dependent on prices, resources and technology

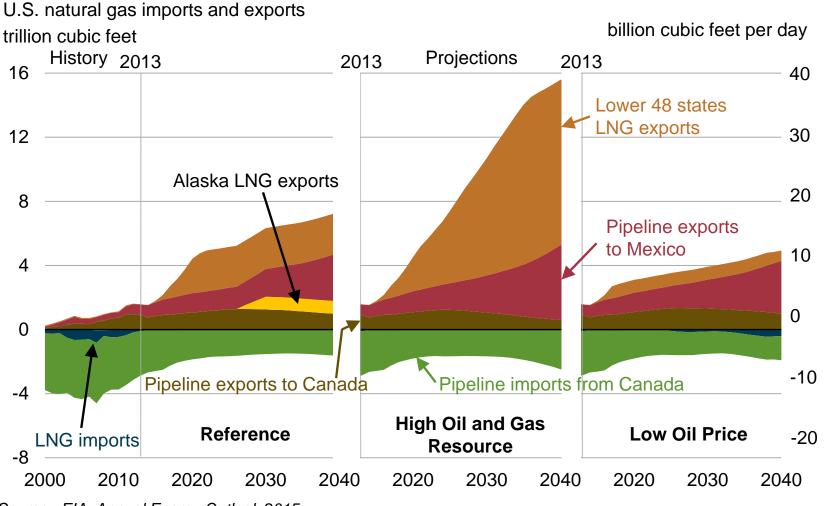
U.S. crude oil production million barrels per day (MMb/d)

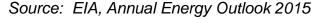






U.S. natural gas trade: Projected U.S. natural gas trade reflects the spread between domestic natural gas prices and world energy prices, along with resource outcomes



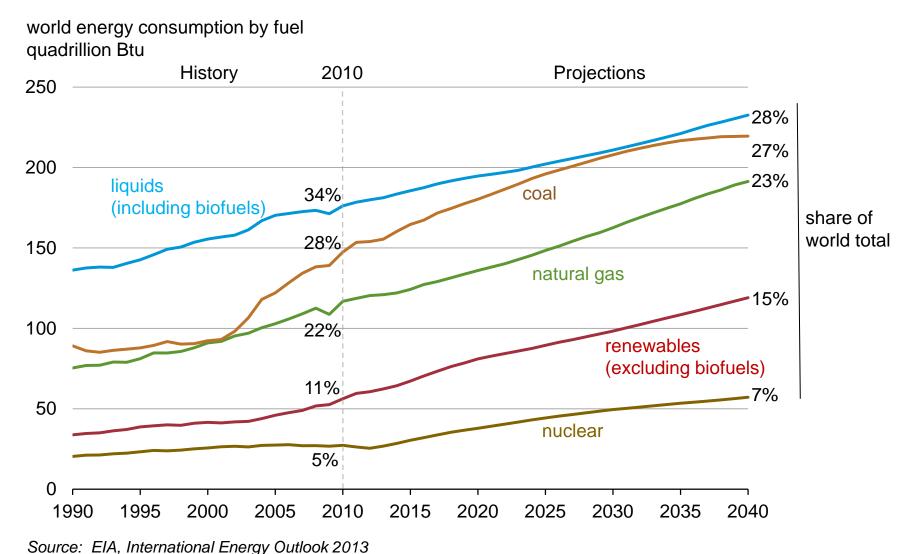




Global long-term outlook



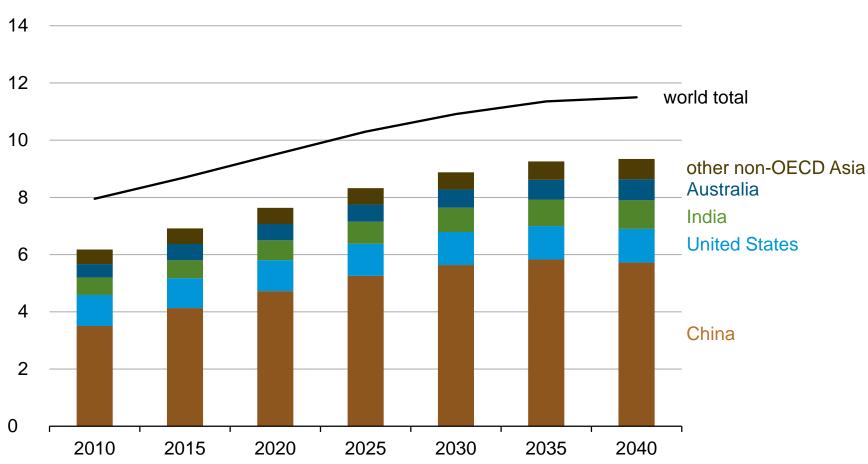
Renewable energy and nuclear power are the fastest growing source of energy consumption





World coal production



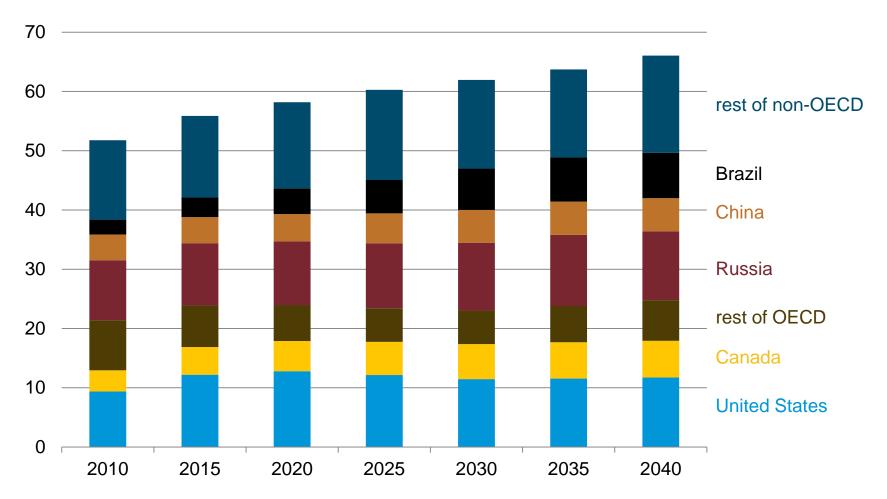


Note: Indonesia accounted for 72 percent of the total coal production in Other non-OECD Asia in 2010, rising from 52 percent in 2000. Throughout the projection period, Indonesia continues dominating the region's coal production.



Non-OPEC petroleum and other liquids production

million barrels per day (MMb/d)

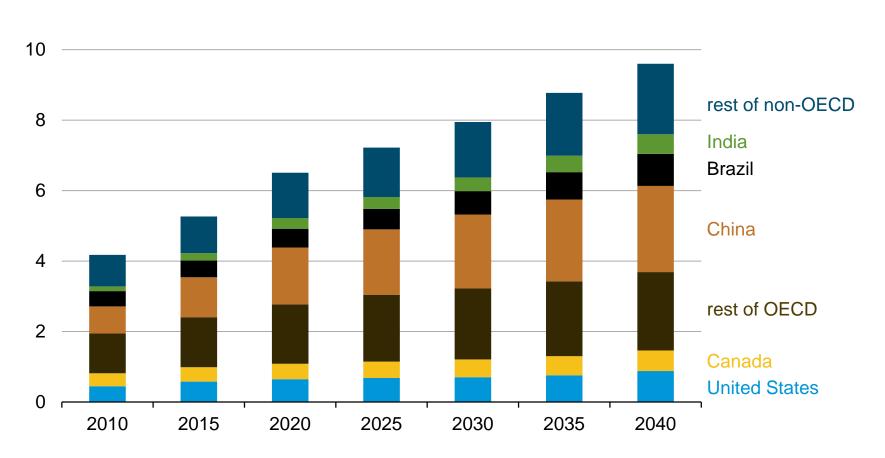




World net hydropower and other renewable electricity generation

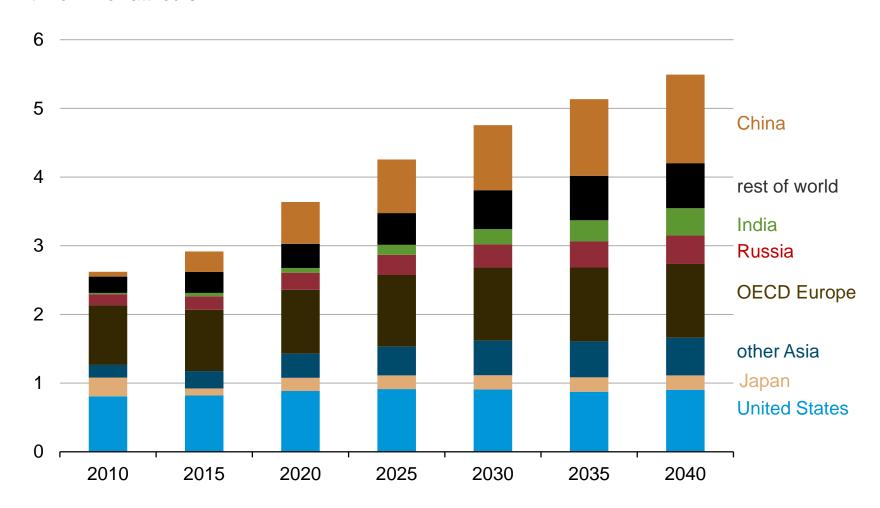


12



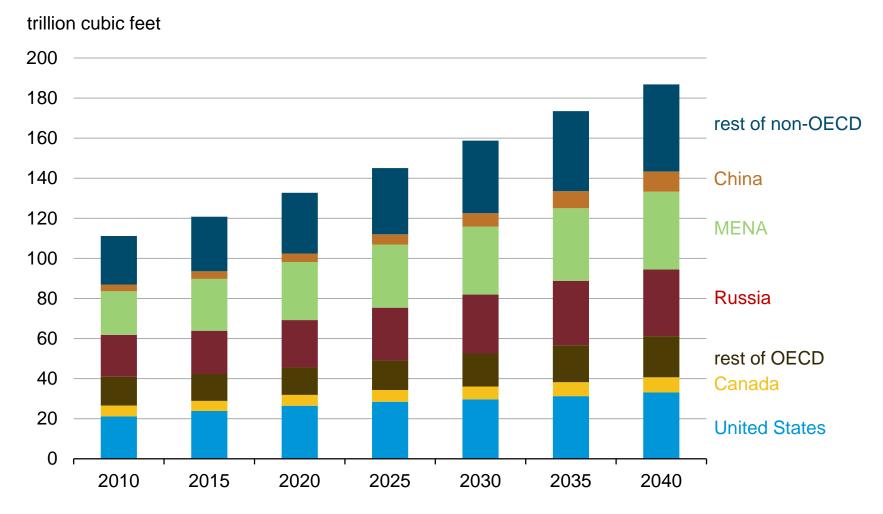
World net nuclear electricity generation

trillion killowatthours





World natural gas production



Source: EIA, International Energy Outlook 2013, Reference case

Note: The MENA region consists of the Middle East and North Africa countries



For more information

U.S. Energy Information Administration home page | www.eia.gov

Annual Energy Outlook | www.eia.gov/aeo

Short-Term Energy Outlook | www.eia.gov/steo

International Energy Outlook | www.eia.gov/ieo

Monthly Energy Review | www.eia.gov/mer

Today in Energy | www.eia.gov/todayinenergy

State Energy Profiles | www.eia.gov/state

Drilling Productivity Report | www.eia.gov/petroleum/drilling/

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