

# Developing and enhancing worldwide energy data: the view from the United States



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*For*

*2018 EIA Energy Conference*

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*By*

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# EIA international energy products

# International Energy Outlook 2017



## China's Key Energy Statistics

		world rank
Total Primary Energy Production 2015	103.134 Quadrillion Btu	1
Total Primary Energy Consumption 2015	119.615 Quadrillion Btu	1
Primary Coal Production 2015	4,129,851 Thousand Short Tons	1
Total Petroleum Consumption 2015	12,376 Thousand Barrels Per Day	2
Total Electricity Net Consumption 2015	5,271 Billion Kilowatthours	1

[See more rankings >](#)

Map of China



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MARCH 5, 2018

## Middle East countries plan to add nuclear to their generation mix

### Middle East nuclear power plants



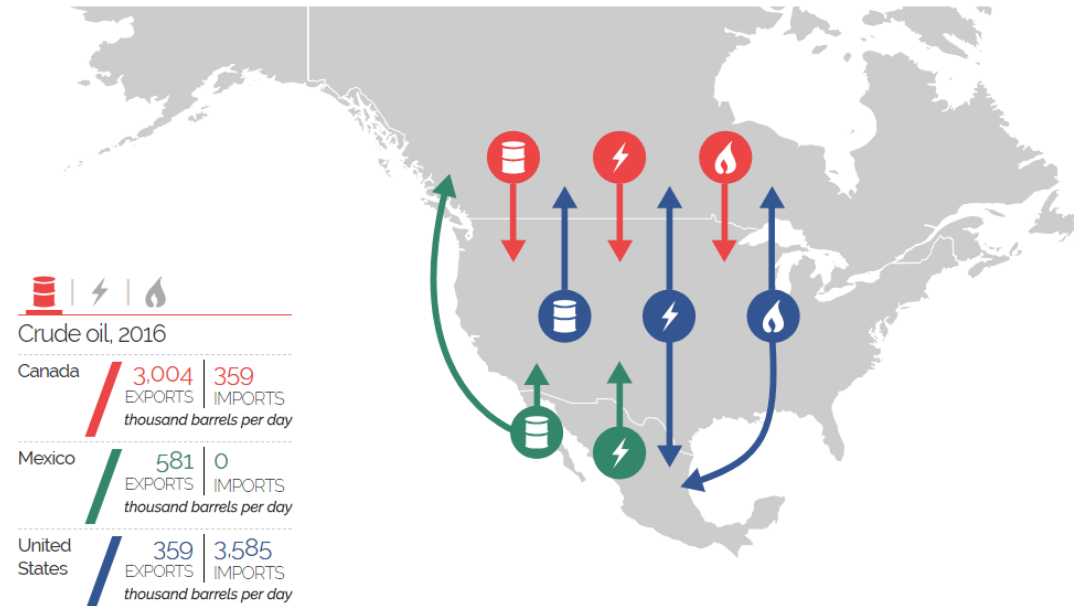
Source: U.S. Energy Information Administration, *International Energy Statistics*, International Atomic Energy Agency, Reuters, and Bloomberg



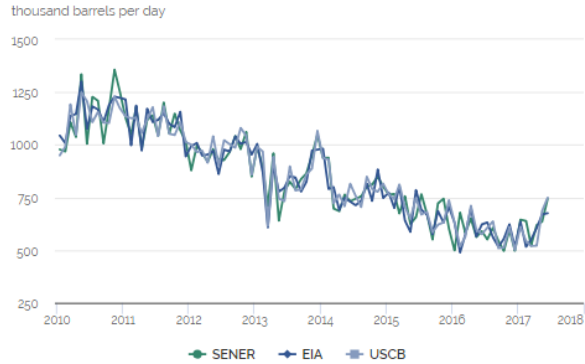
# North American Cooperation on Energy Information (NACEI)

OVERVIEW DATA MAPS OUTLOOK

## Energy flows within North America

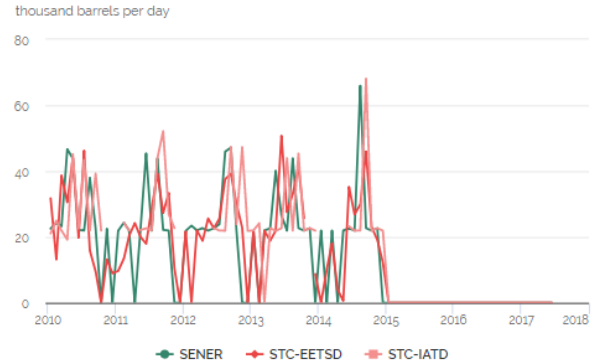


### Crude oil flows from Mexico to U.S.



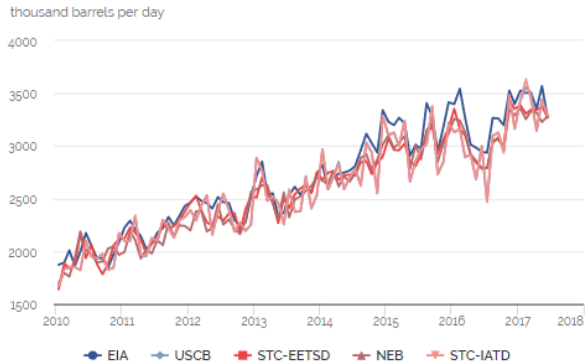
Secretaría de Energía  
U.S. Energy Information Administration  
U.S. Census Bureau

### Crude oil flows from Mexico to Canada



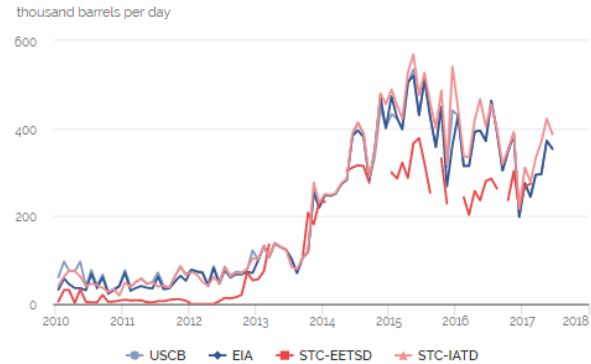
Secretaría de Energía  
Statistics Canada, Energy and Transportation Statistics Division  
Statistics Canada, International Accounts and Trade Division

### Crude oil flows from Canada to U.S.



U.S. Energy Information Administration  
U.S. Census Bureau  
Statistics Canada, Energy and Transportation Statistics Division

### Crude oil flows from U.S. to Canada



U.S. Census Bureau  
U.S. Energy Information Administration  
Statistics Canada, Energy and Transportation Statistics Division

# Trends in U.S. and international energy market integration

(Examples from EIA's *Today in Energy*)

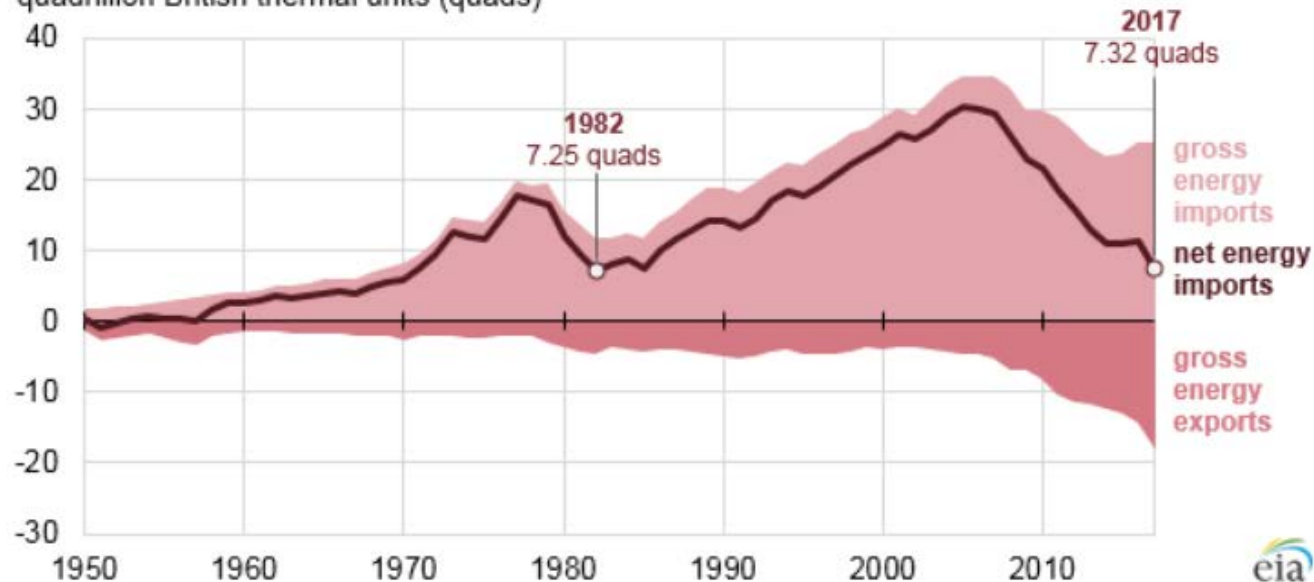


MARCH 28, 2018

## U.S. net energy imports in 2017 fall to their lowest levels since 1982

### U.S. gross and net energy trade (1950-2017)

quadrillion British thermal units (quads)



Source: U.S. Energy Information Administration, *Monthly Energy Review*, Table 1.4a & 1.4b



## U.S. crude oil exports increased and reached more destinations in 2017

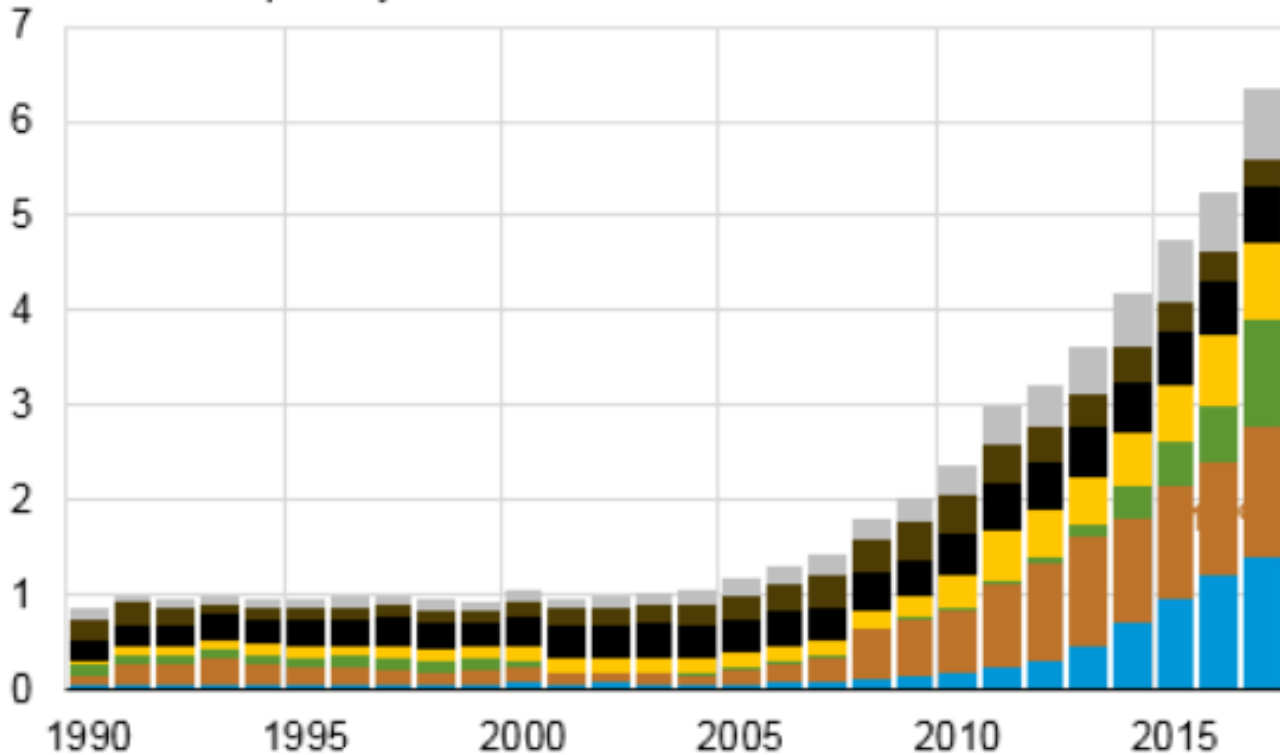
**U.S. crude oil exports (1920-2017)**  
thousand barrels per day



Source: U.S. Energy Information Administration, *Petroleum Supply Annual*, *Petroleum Supply Monthly*

# Total U.S. crude oil and petroleum product exports

million barrels per day



2017 share of total petroleum exports

- 12% other liquids
- 5% residual fuel
- 9% petroleum coke
- 13% motor gasoline
- 18% crude oil
- 22% distillate
- 22% hydrocarbon gas liquids

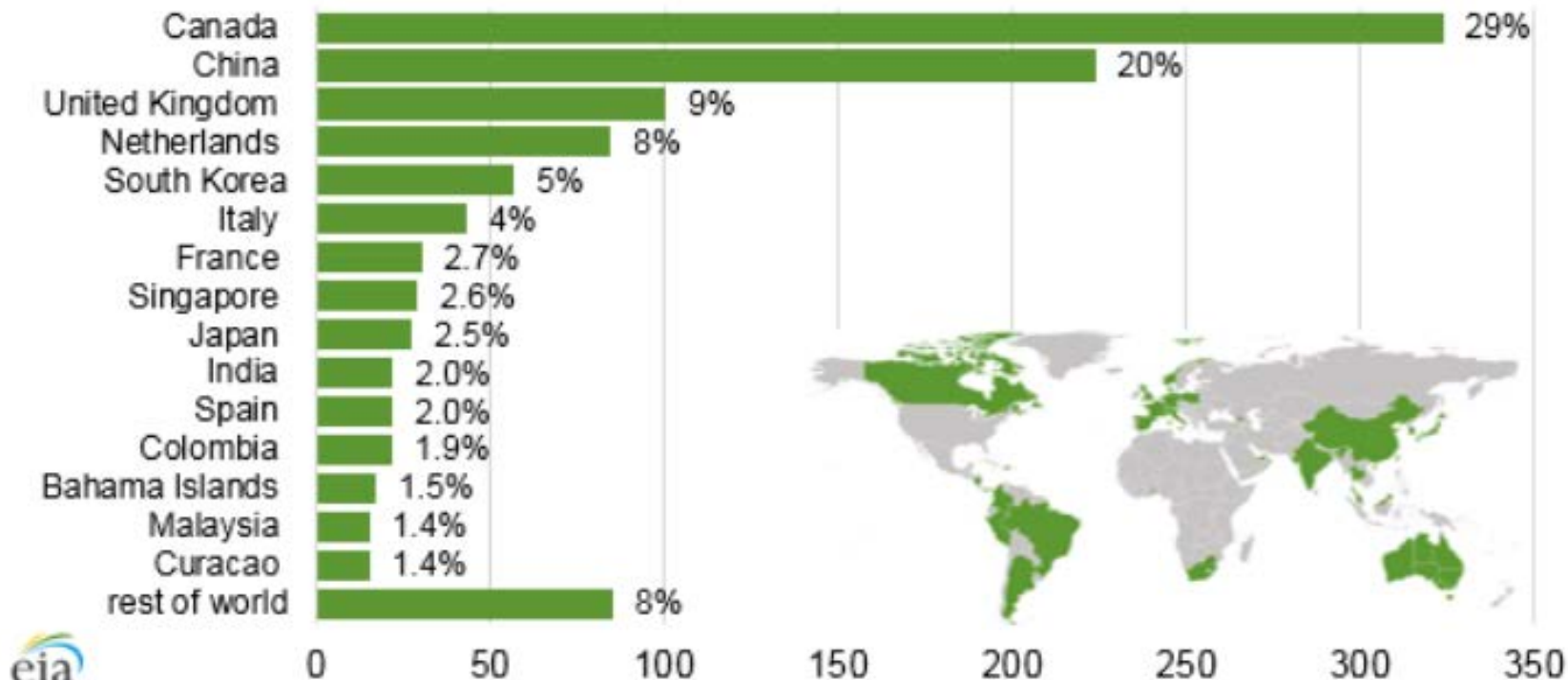


Source: U.S. Energy Information Administration, *Petroleum Supply Annual*, *Petroleum Supply Monthly*

## U.S. crude oil export destinations (2017)

thousand barrels per day

percent of U.S. total

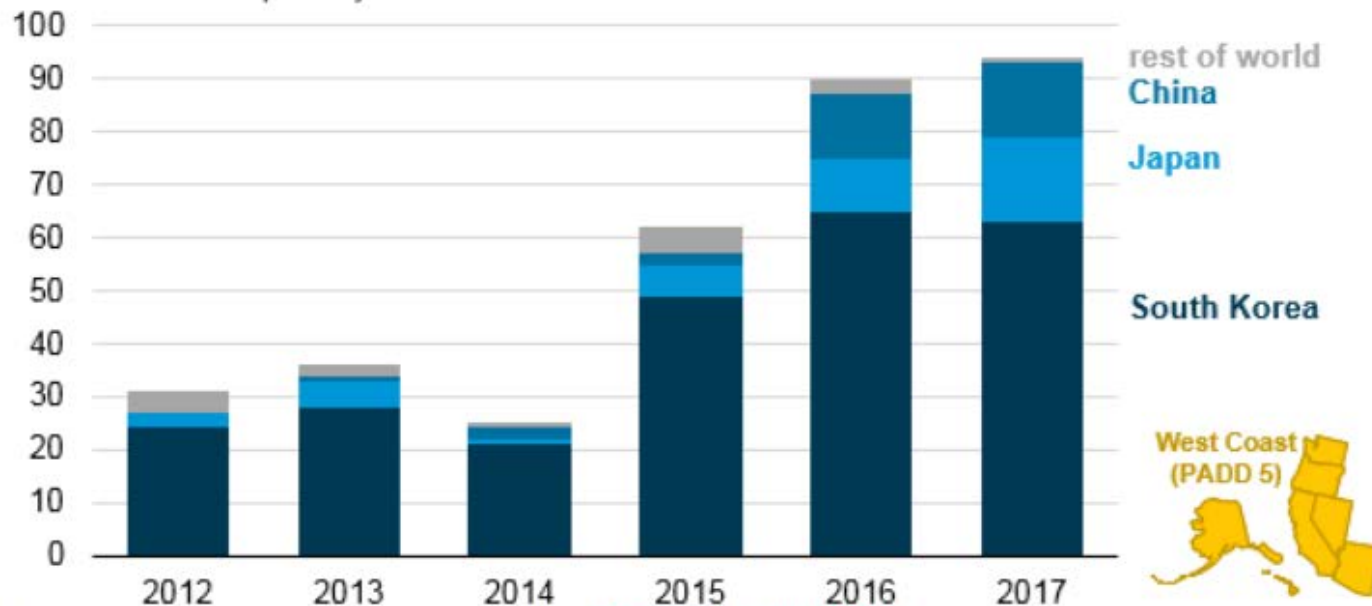


Source: U.S. Energy Information Administration, *Petroleum Supply Monthly*

## West Coast jet fuel imports increase to meet growing demand

### West Coast imports of jet fuel (2012-2017)

thousand barrels per day



Source: U.S. Energy Information Administration, *Petroleum Supply Monthly*

## By some measures, U.S. natural gas production set a record in 2017

### Monthly U.S. natural gas exports (2006-2017)

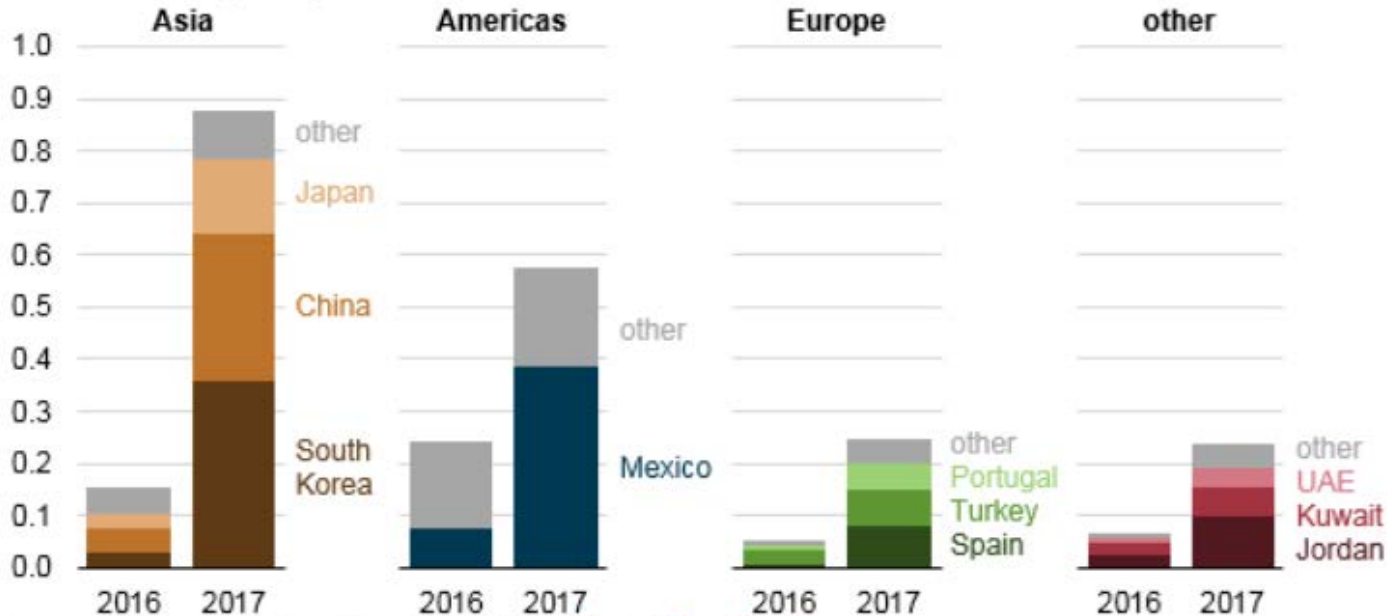
billion cubic feet per day



Source: U.S. Energy Information Administration, *Natural Gas Monthly*

# U.S. liquefied natural gas exports quadrupled in 2017

**U.S. exports of liquefied natural gas**  
billion cubic feet per day



Source: U.S. Energy Information Administration, *Natural Gas Monthly*

# International energy data is increasingly vital to understanding energy data in the United States

- While net U.S. energy imports have fallen, gross energy exports and gross energy imports are both growing
- In the case of oil and other petroleum products, U.S. imports and exports help manage energy systems that have to sprawl over a large country
- In the case of natural gas, expanded production has opened up new export markets
- Managing in this more internationally integrated energy world puts a demand on improving international energy information
- EIA supports the International Energy Agency in its efforts to do this



## For more information

U.S. Energy Information Administration home page | [www.eia.gov](http://www.eia.gov)

Annual Energy Outlook | [www.eia.gov/aeo](http://www.eia.gov/aeo)

International Energy Outlook | [www.eia.gov/ieo](http://www.eia.gov/ieo)

Short-Term Energy Outlook | [www.eia.gov/steo](http://www.eia.gov/steo)

Monthly Energy Review | [www.eia.gov/mer](http://www.eia.gov/mer)

Today in Energy | [www.eia.gov/todayinenergy](http://www.eia.gov/todayinenergy)

Drilling Productivity Report | [www.eia.gov/petroleum/drilling/](http://www.eia.gov/petroleum/drilling/)

State Energy Portal | [www.eia.gov/state/](http://www.eia.gov/state/)

North American Collaboration on Energy Information | [www.nacei.org/](http://www.nacei.org/)