

FEBRUARY 4, 2019

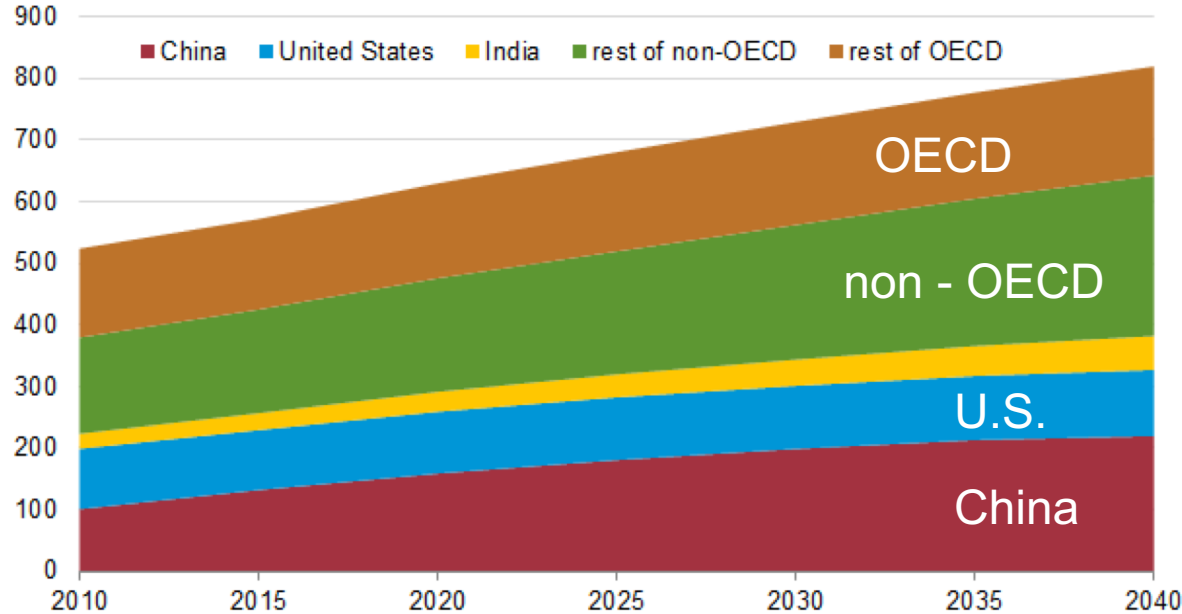


ENERGY GEO-POLITICS: US, CHINA, & RUSSIA

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Global primary energy consumption

quadrillion british thermal



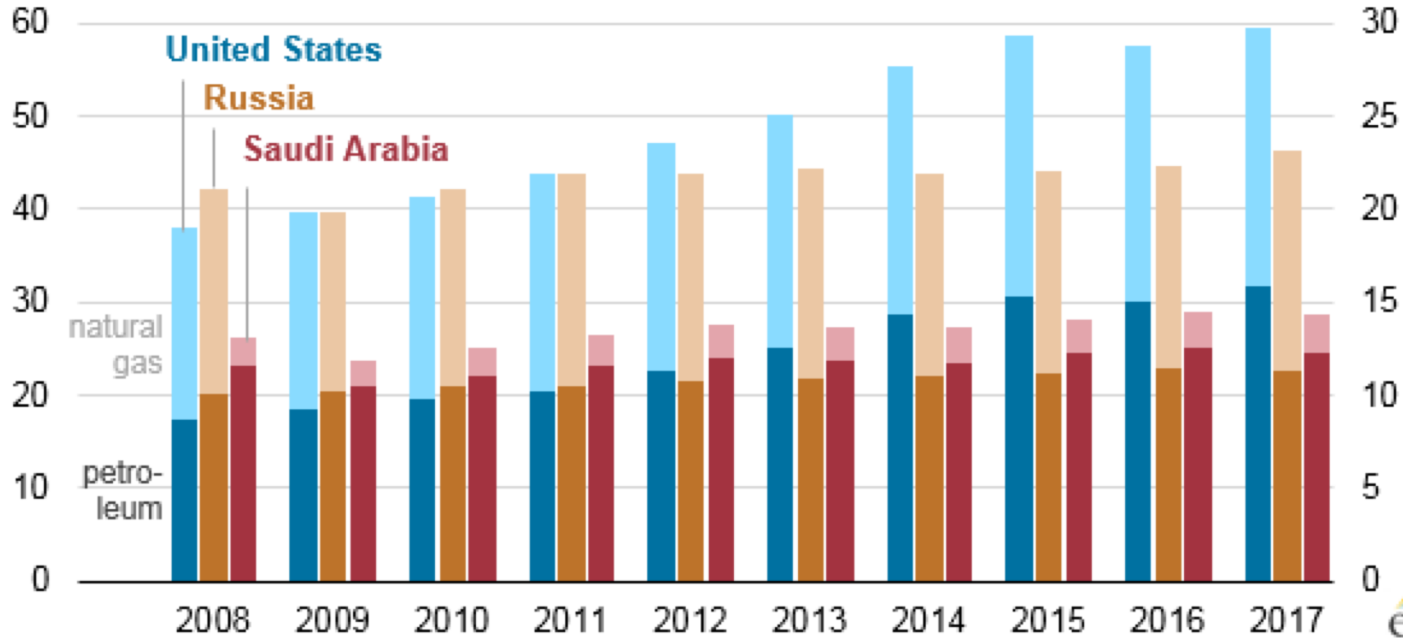
Global Energy Use:
 2010 = 500 Quads
 2015 = 575 Quads
 2040 = 800 Quads?



Source: U.S. Energy Information Administration, *International Energy Outlook*, 2013.

China & US account for 40% of Global Energy Use!

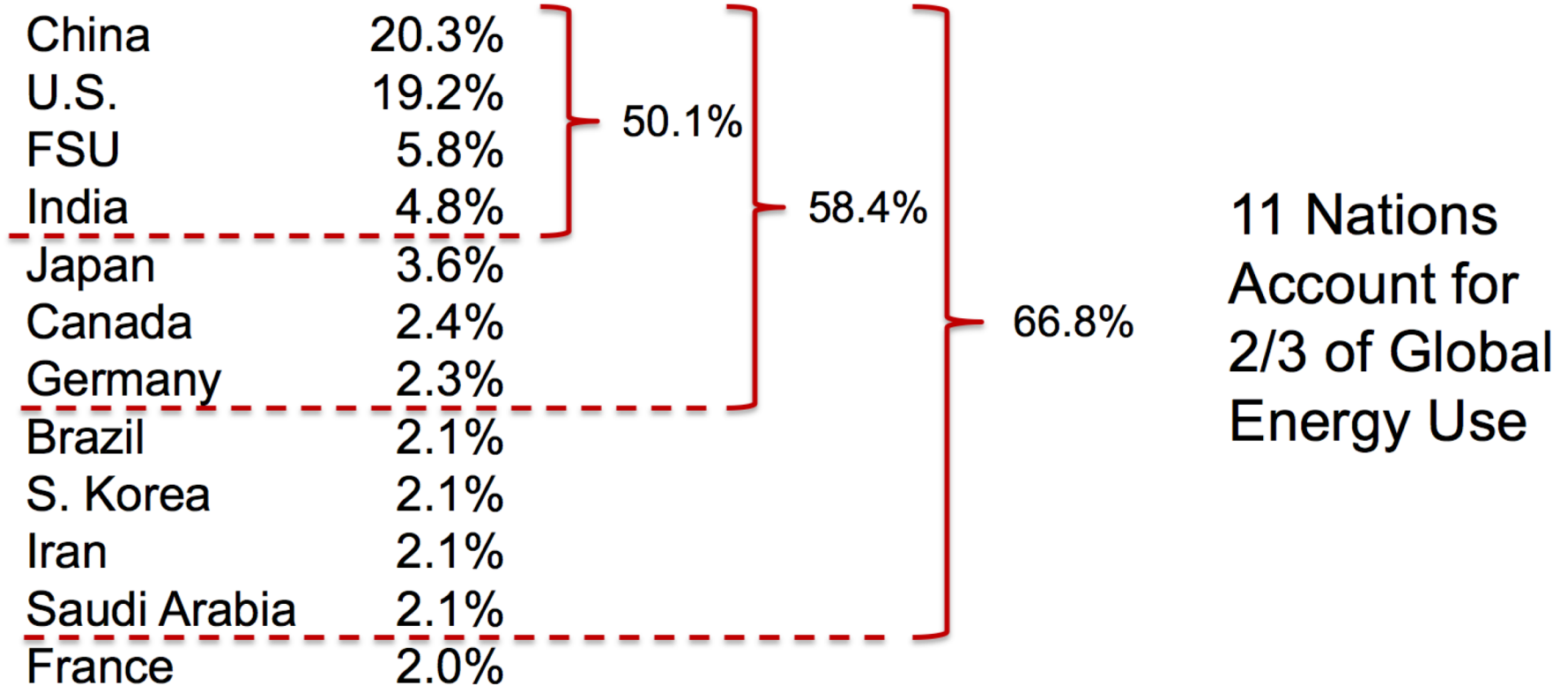
Estimated petroleum and natural gas hydrocarbon production in selected countries
 quadrillion British thermal units million barrels per day of oil equivalent



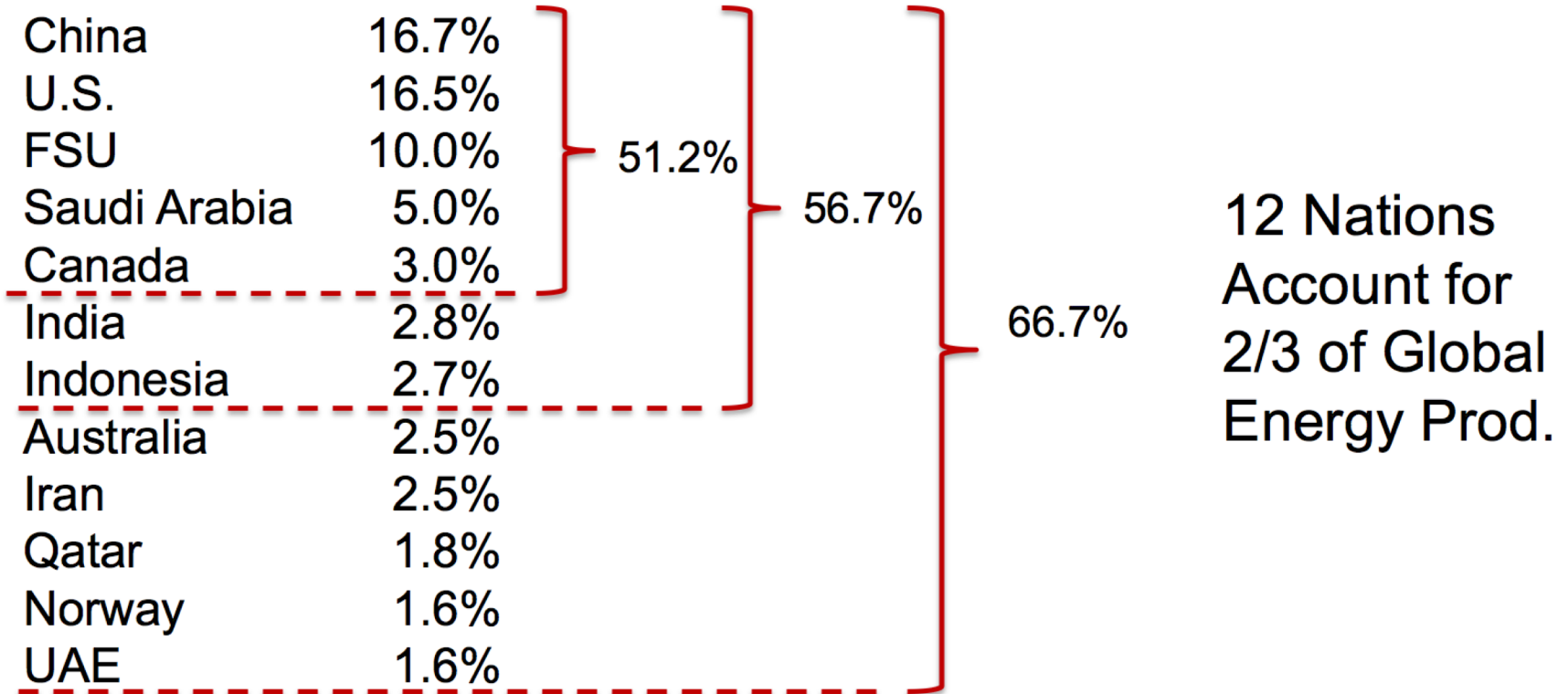
From a National Perspective, Oil Production is Dominated by 3 Countries

Oil & Gas Production is Dominated by 2 Countries

Percent of Global Energy Use; *4 Nations Account for Half*



Percent of Global Energy Production; *5 Nations Account for Half*



% Energy Production

China	16.7%
U.S.	16.5%
FSU	10.0%
Saudi Arabia	5.0%
Canada	3.0%
India	2.8%
Indonesia	2.7%
Australia	2.5%
Iran	2.5%
Qatar	1.8%
Norway	1.6%
UAE	1.6%

% Energy Consumption

China	20.3%
U.S.	19.2%
FSU	5.8%
India	4.8%
Japan	3.6%
Canada	2.4%
Germany	2.3%
Brazil	2.1%
S. Korea	2.1%
Iran	2.1%
Saudi Arabia	2.1%
France	2.0%

Of the Top 12
Producing and
Consuming
Nations, Only 7
are in Both
Categories and
Just 3 Dominate