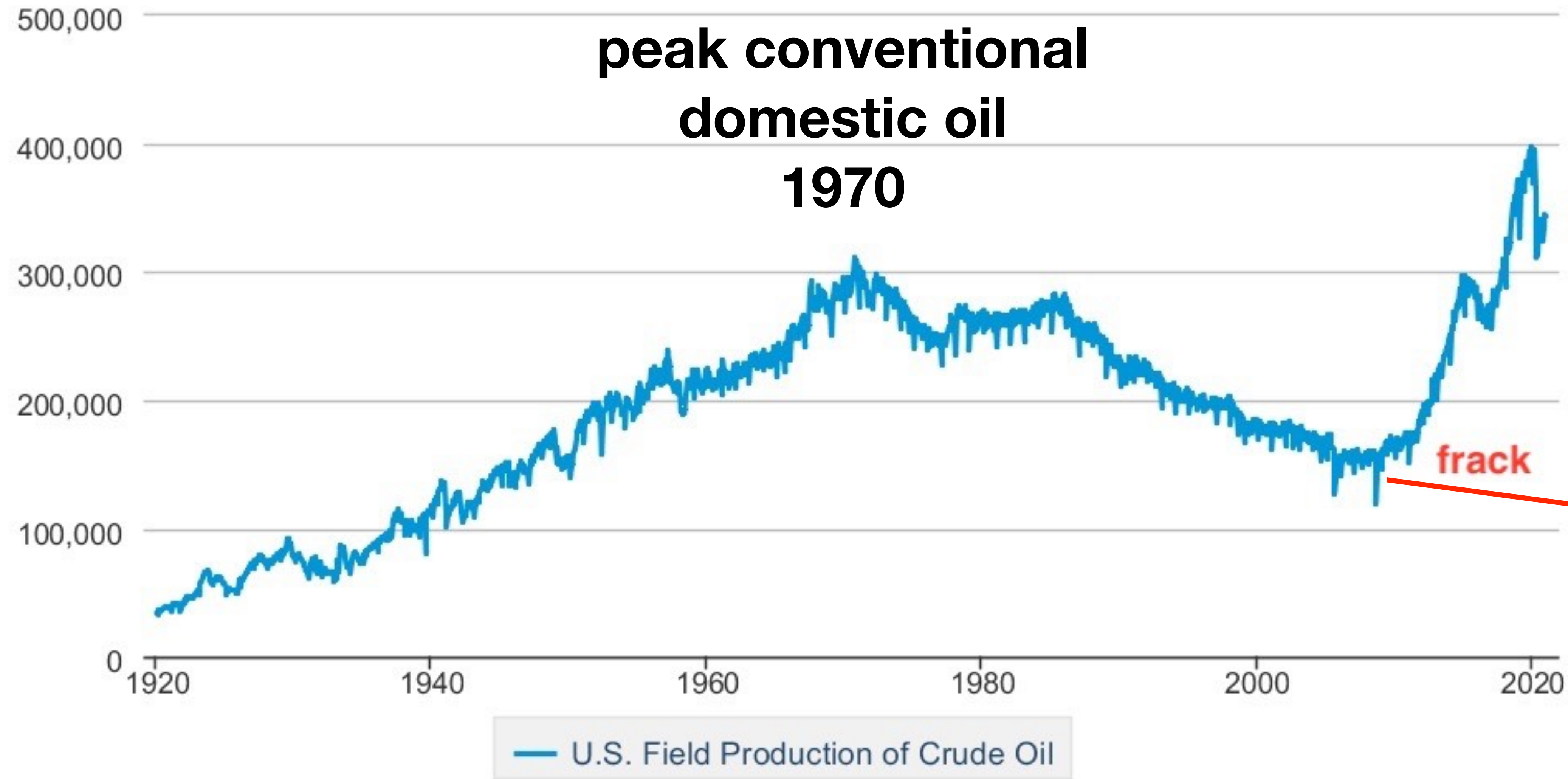


# U.S. Field Production of Crude Oil

Thousand Barrels

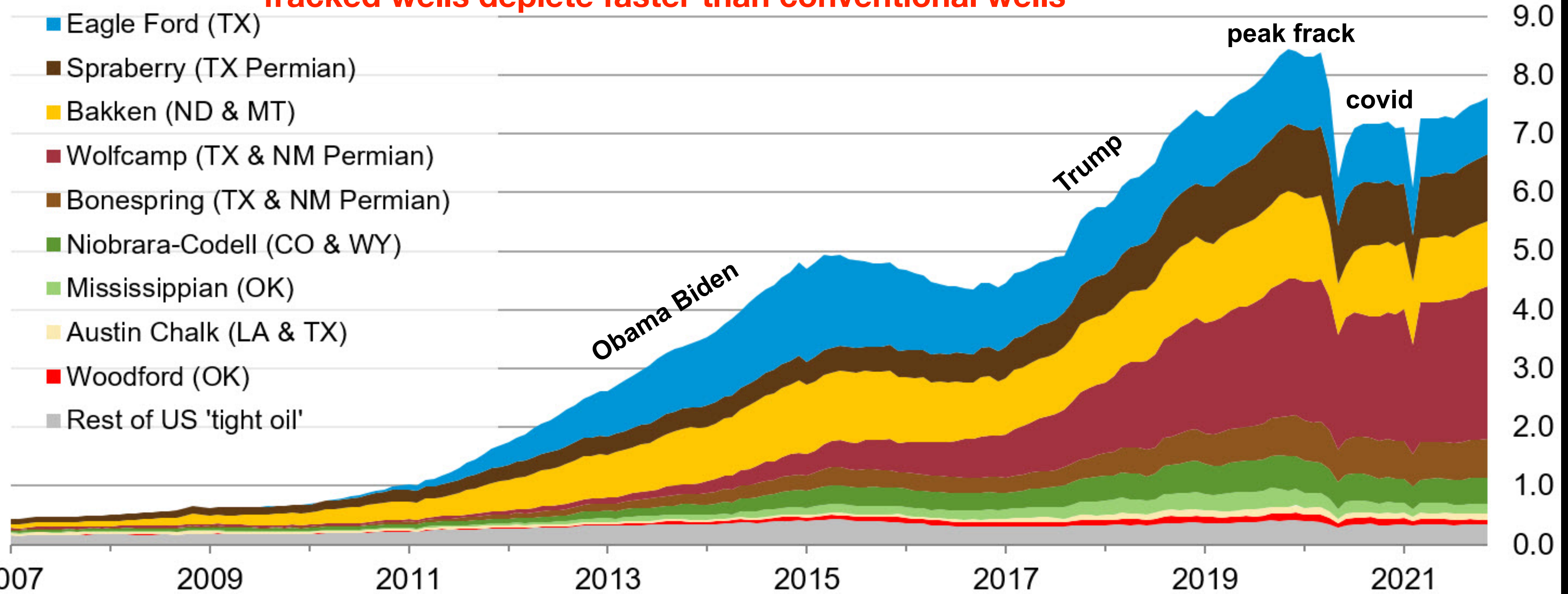


# U.S. tight oil production – selected plays

million barrels of oil per day

fracked oil is two thirds  
of domestic oil production

fracked wells deplete faster than conventional wells



Sources: EIA derived from state administrative data collected by Enverus. Data are through November 2021 and represent EIA's official tight oil estimates, but are not survey data. State abbreviations indicate primary state(s).

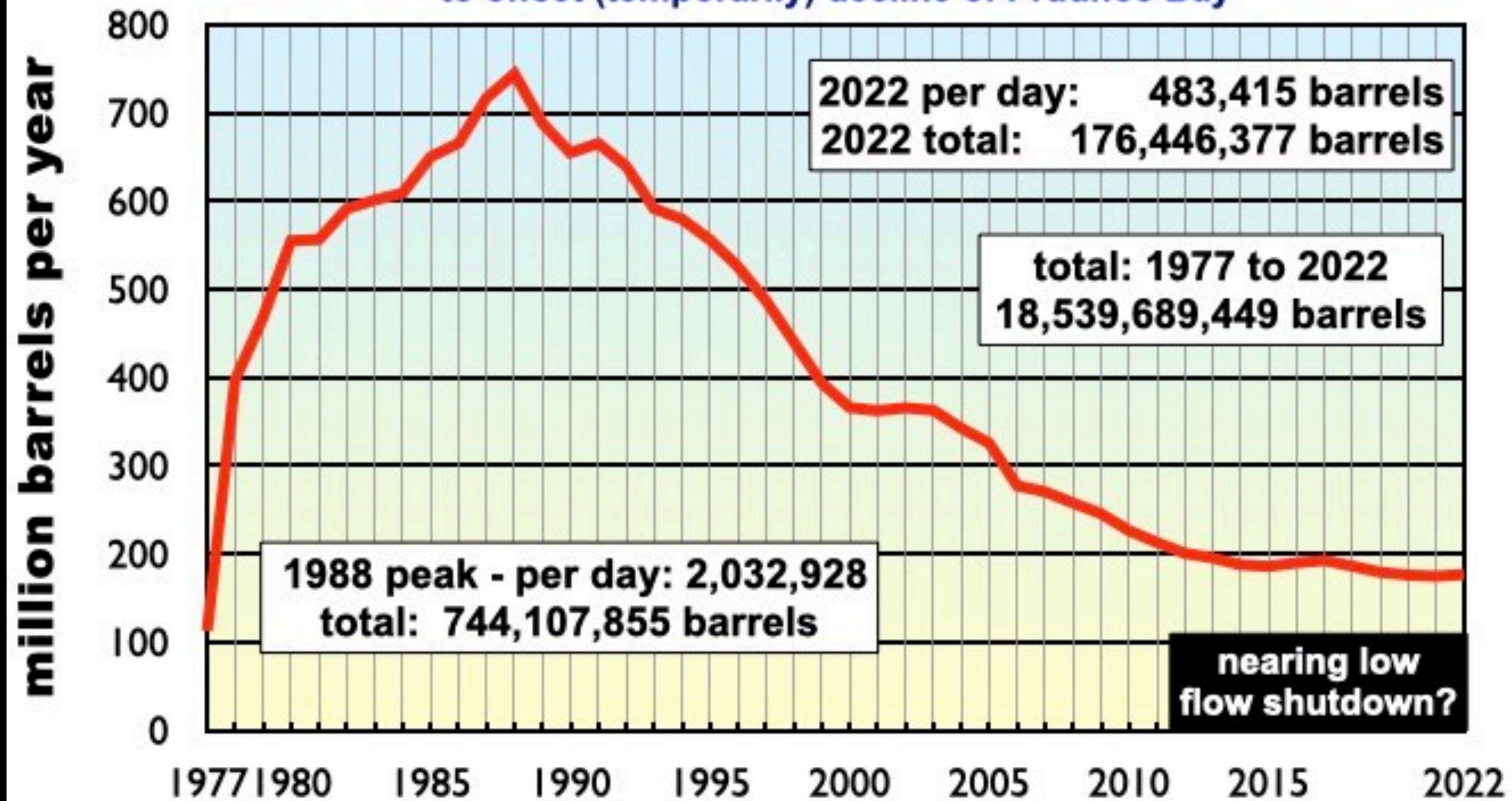
Note: Improvements to play identification methods have altered production volumes between various plays.



# ALASKA PIPELINE: PEAK & DECLINE

nearing low flow shutdown threshold for Arctic winter operations  
extraction is now less in summer to reserve capacity for winter

drilling "ANWR" might retrieve another billion barrels, maybe more,  
to offset (temporarily) decline of Prudhoe Bay



2022 per day: 483,415 barrels  
2022 total: 176,446,377 barrels

total: 1977 to 2022  
18,539,689,449 barrels

1988 peak - per day: 2,032,928  
total: 744,107,855 barrels

nearing low  
flow shutdown?

chart: [www.PeakChoice.org/peak-alaska-pipeline.html](http://www.PeakChoice.org/peak-alaska-pipeline.html)  
data: [www.alyeska-pipe.com/historic-throughput/](http://www.alyeska-pipe.com/historic-throughput/)

Nearly all petroleum products used in Oregon and Washington are processed at the five refineries in Puget Sound. **If you drive a car, an SUV, ride a bus, train or plane, or shop in a grocery store that uses food delivery trucks, you are dependent on the Alaska pipeline.**

Is there a "Plan B" when the pipeline shuts down due to low flow? Are proposals for oil trains from North Dakota to Cascadia's ports a cover story for using fracked oil and tar sands to prop up our regional economy after Alaska's energy supplies are done? (Fracking is also a temporary, toxic fix since fracked wells deplete faster than conventional wells.) **Oregon and Washington do not have ANY oil supplies since we have the wrong geology to make petroleum traps.**

# Oregon and Washington State get Alaskan oil via Puget Sound refineries

**BP**  
refinery: Conoco Phillips - Ferndale  
**Conoco**

**Tesoro**  
refinery: Tesoro Anacortes  
**Shell**  
refinery: Shell Anacortes

  
Trident subs  
nuclear war

**U.S. Oil**  
refinery: US Oil & refining - Tacoma Refinery

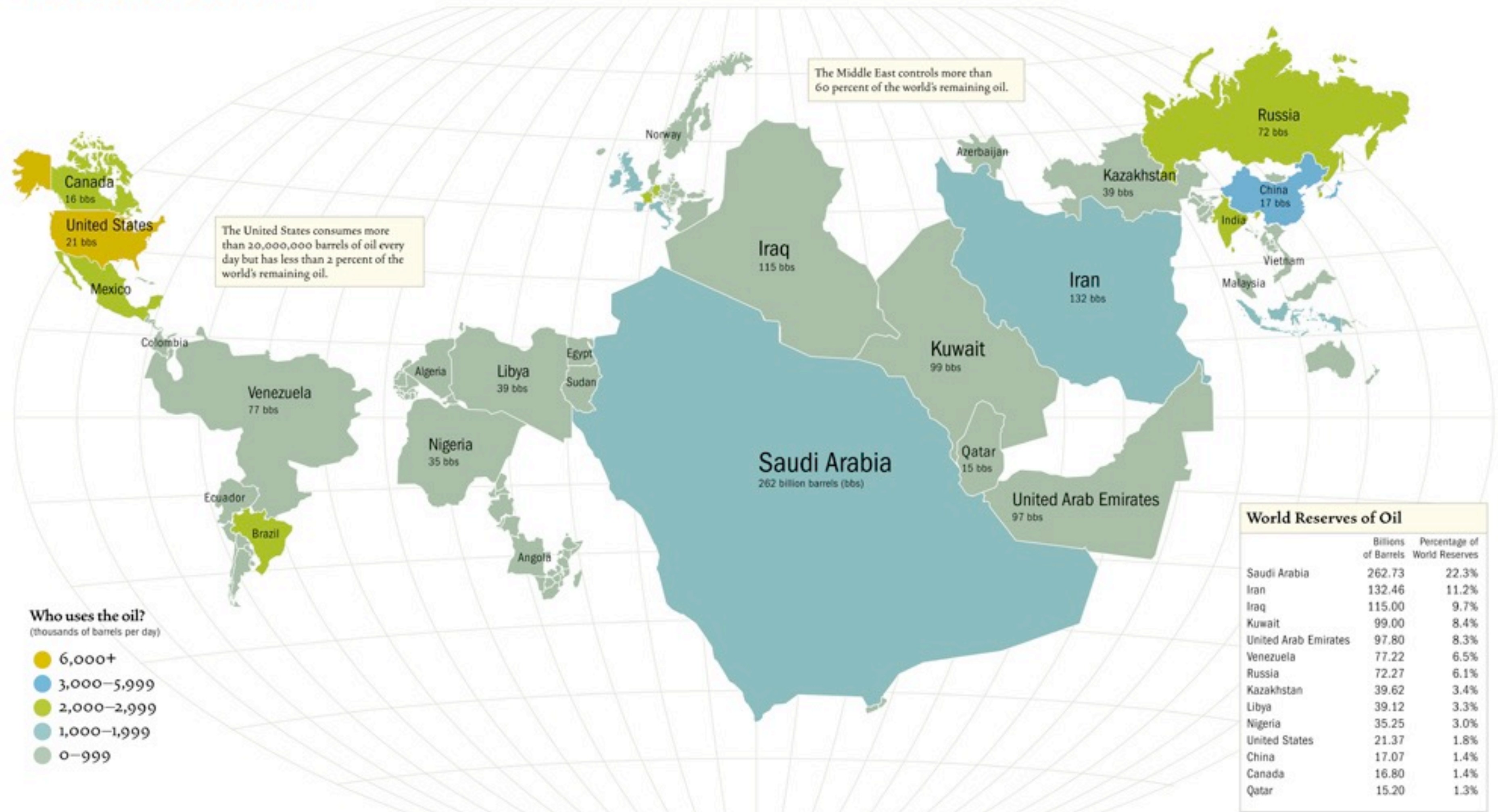
©2007 Google™

Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
©2012 Cnes/Spot Image  
Image ©2012 TerraMetrics  
©2012 Google  
Streaming 100%

Pointer 48° 5.148' N 123° 6.559' W

Eye alt 283.56 km

# Who has the oil?



World Reserves of Oil		
	Billions of Barrels	Percentage of World Reserves
Saudi Arabia	262.73	22.3%
Iran	132.46	11.2%
Iraq	115.00	9.7%
Kuwait	99.00	8.4%
United Arab Emirates	97.80	8.3%
Venezuela	77.22	6.5%
Russia	72.27	6.1%
Kazakhstan	39.62	3.4%
Libya	39.12	3.3%
Nigeria	35.25	3.0%
United States	21.37	1.8%
China	17.07	1.4%
Canada	16.80	1.4%
Qatar	15.20	1.3%

**Who uses the oil?**  
(thousands of barrels per day)

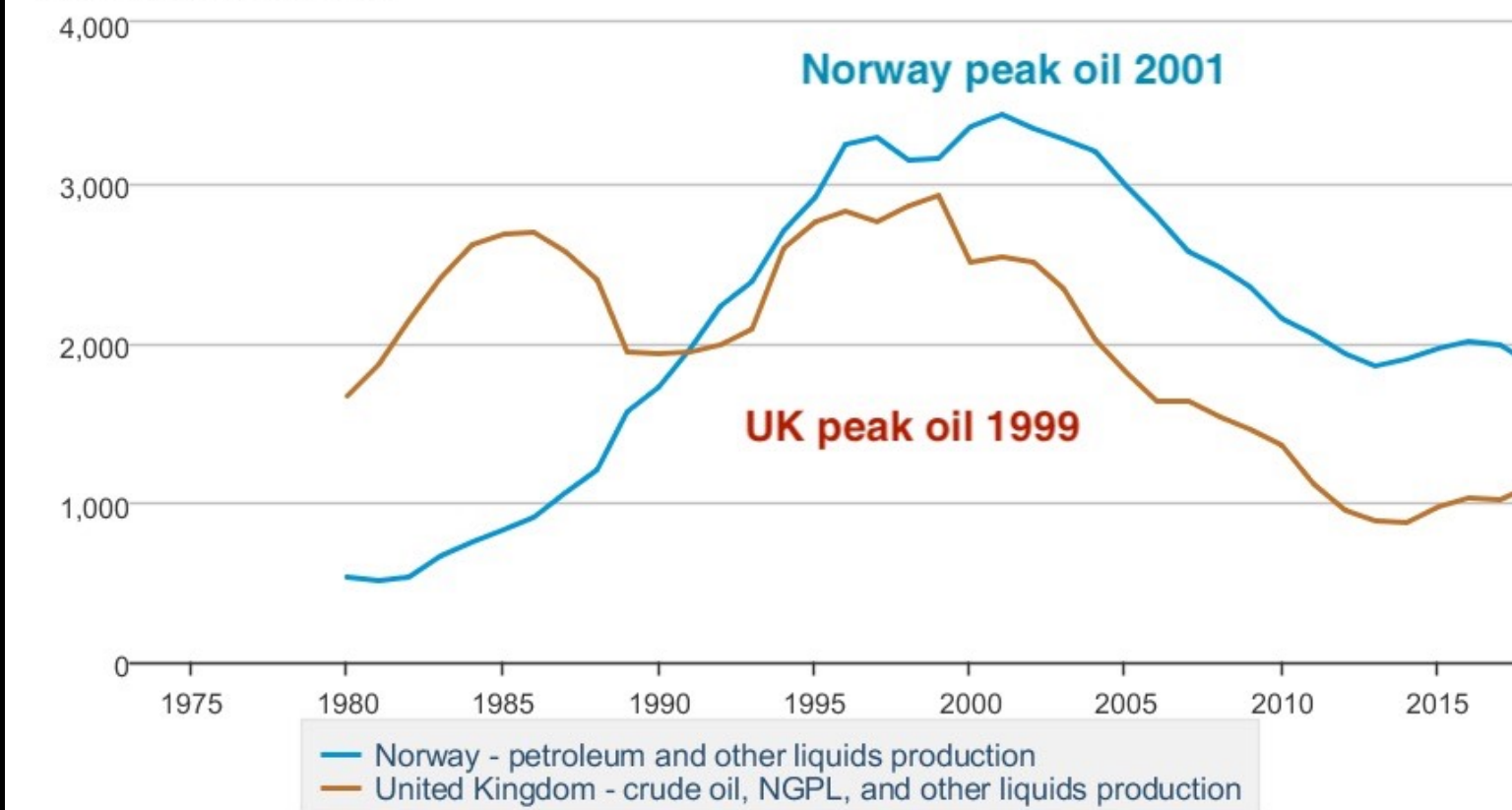
- 6,000+
- 3,000-5,999
- 2,000-2,999
- 1,000-1,999
- 0-999

Each country's size is proportional to the amount of oil it contains (oil reserves); Source: BP Statistical Review Year-End 2004 & Energy Information Administration

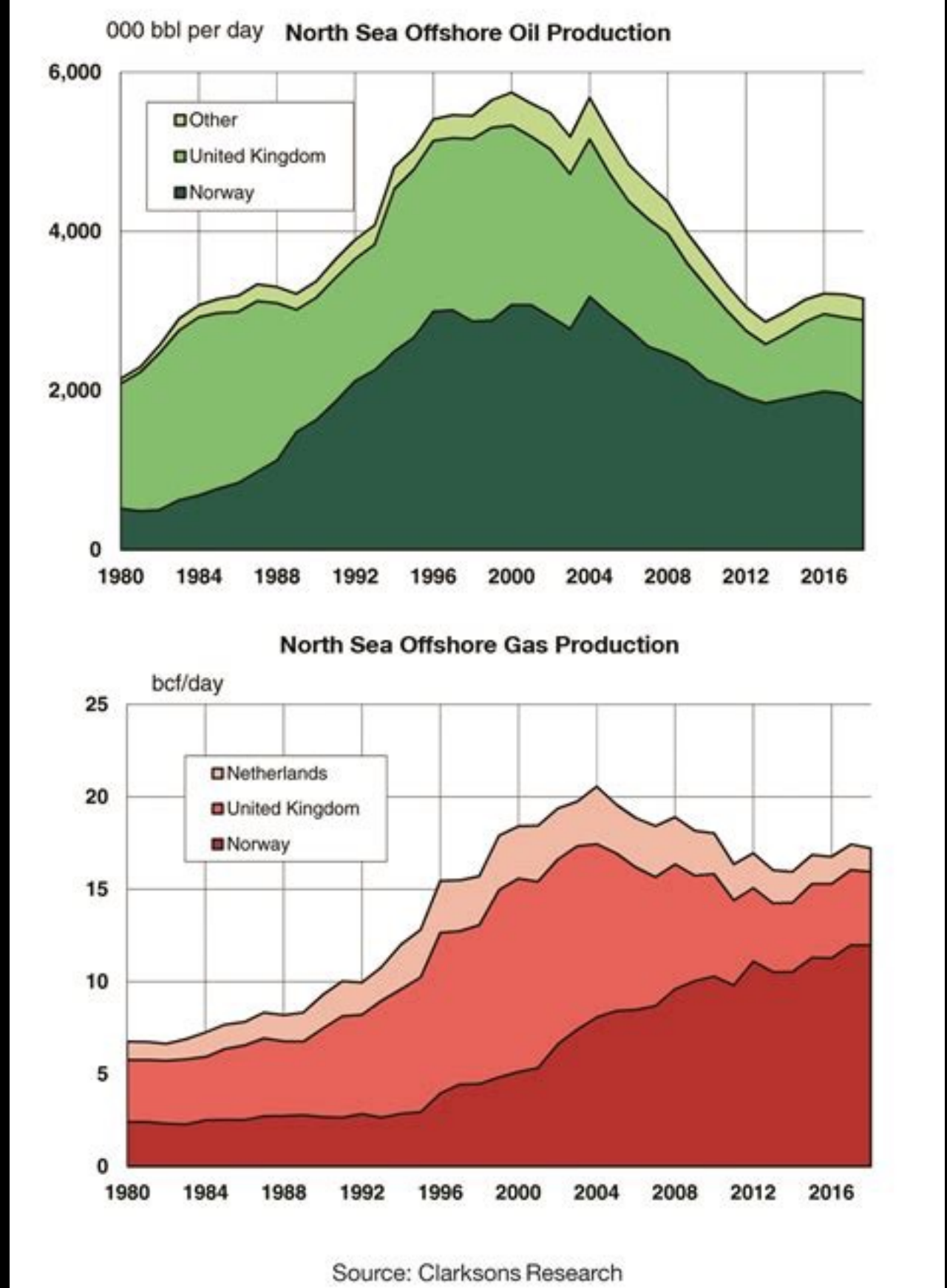
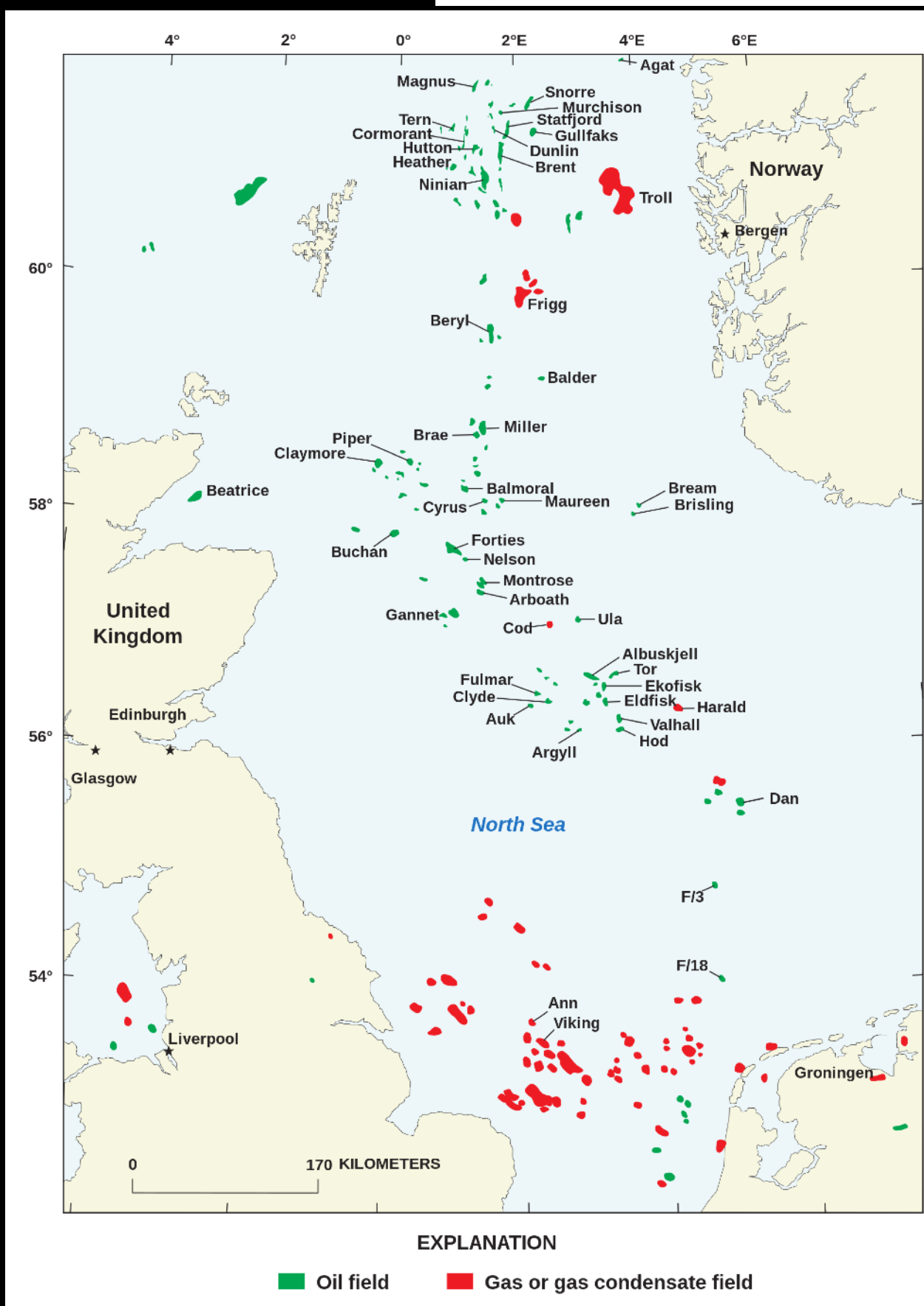


### Petroleum and other liquids (annual)

thousand barrels per day



Source: U.S. Energy Information Administration



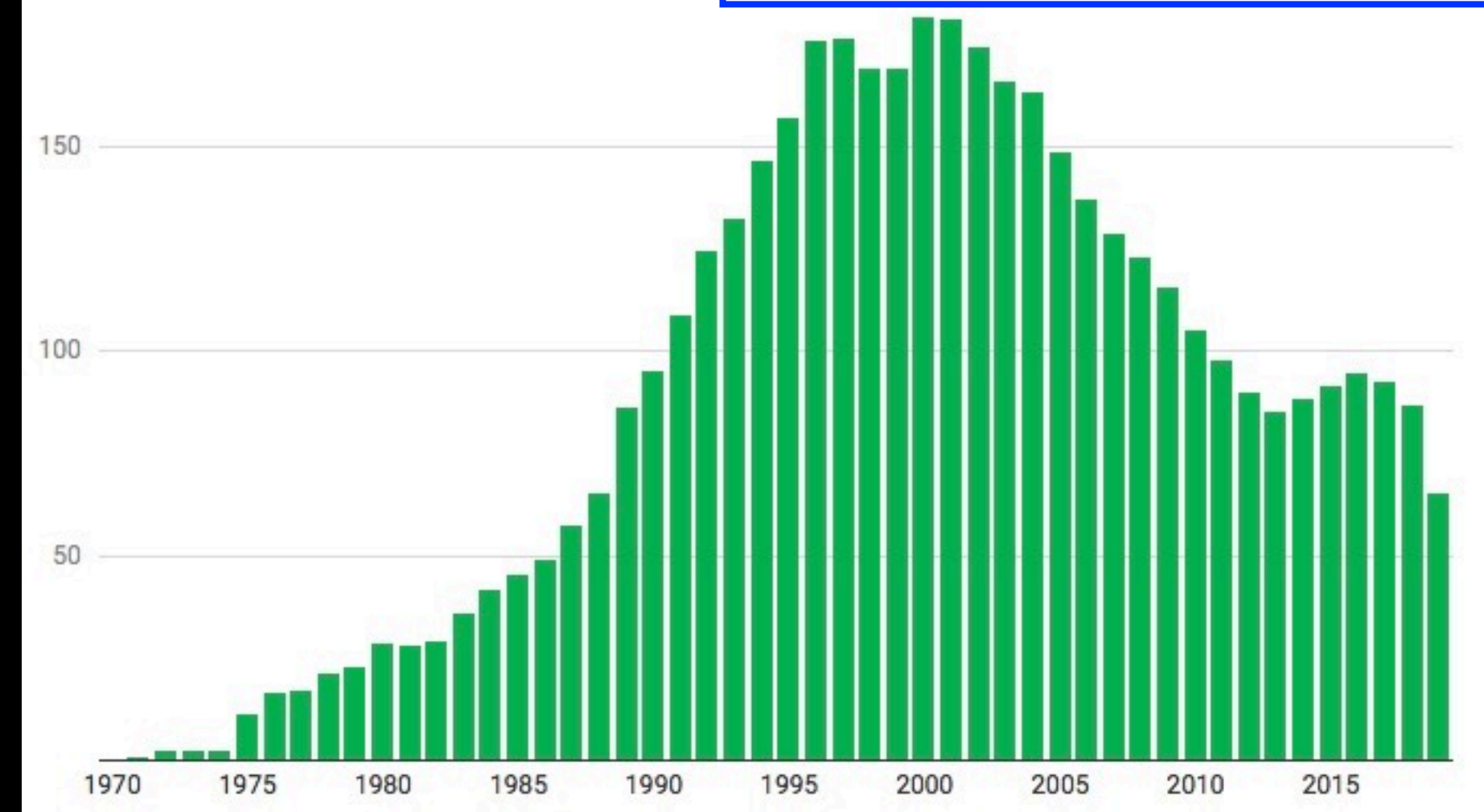
Source: Clarksons Research

The Norwegian Petroleum Directorate's role is to ensure that the companies implement necessary measures to utilise all valuable resources in the fields before they shut down.

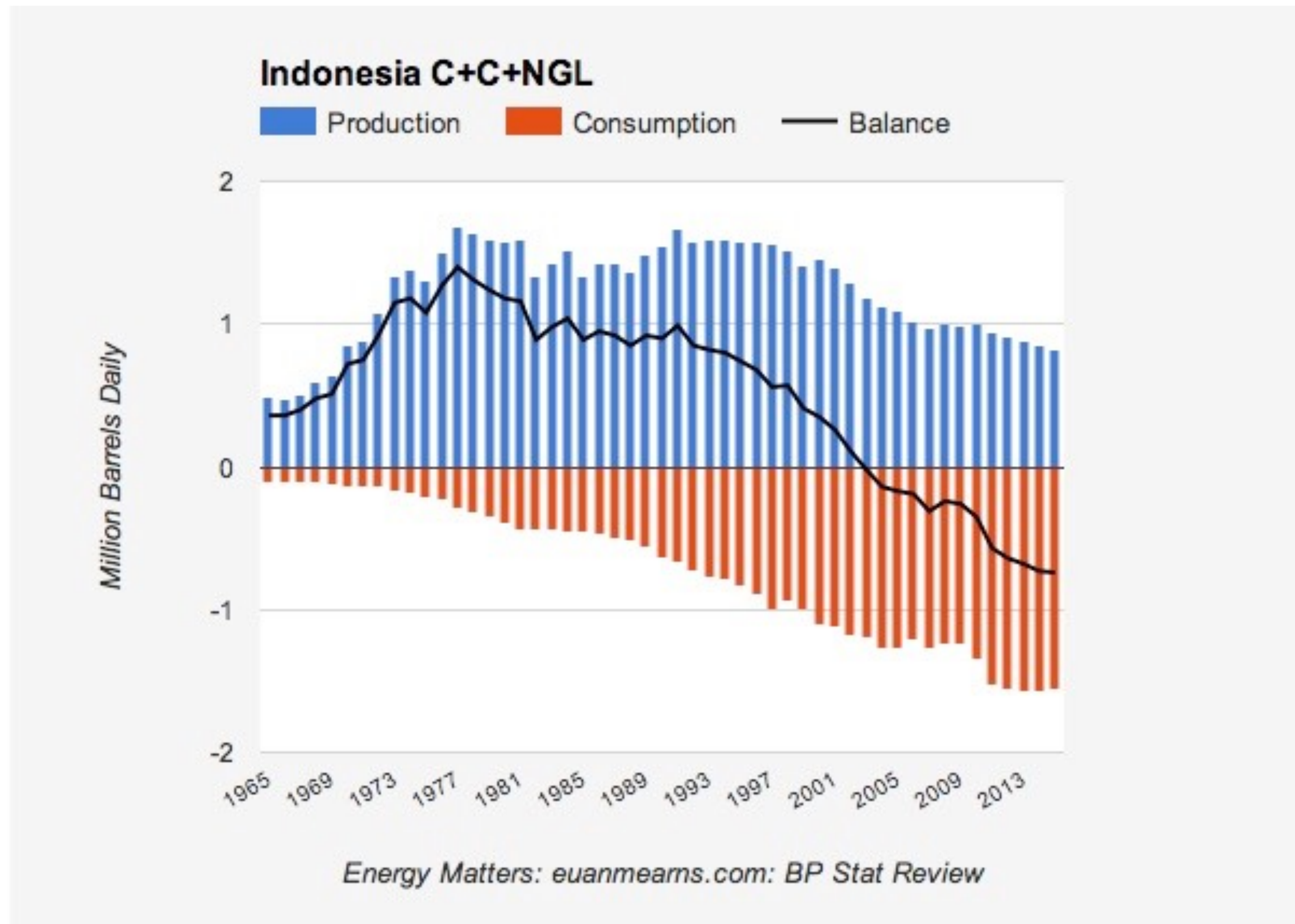
The government of Norway admits depletion is real. Norway likely is best in the world in countries managing the one-time pulse of petroleum wealth for social benefits.

### Oil production

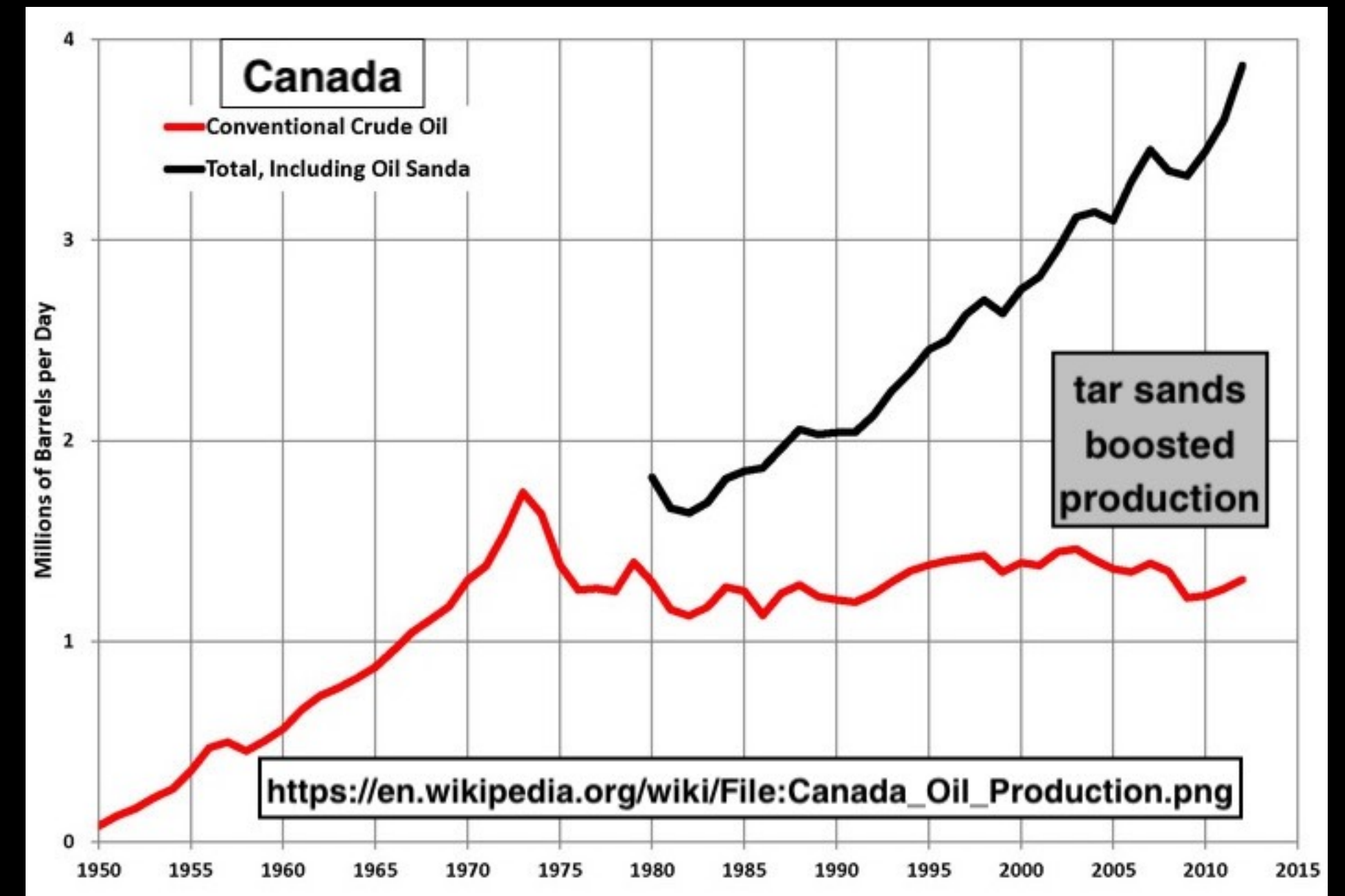
Millions Sm<sup>3</sup> oil per year



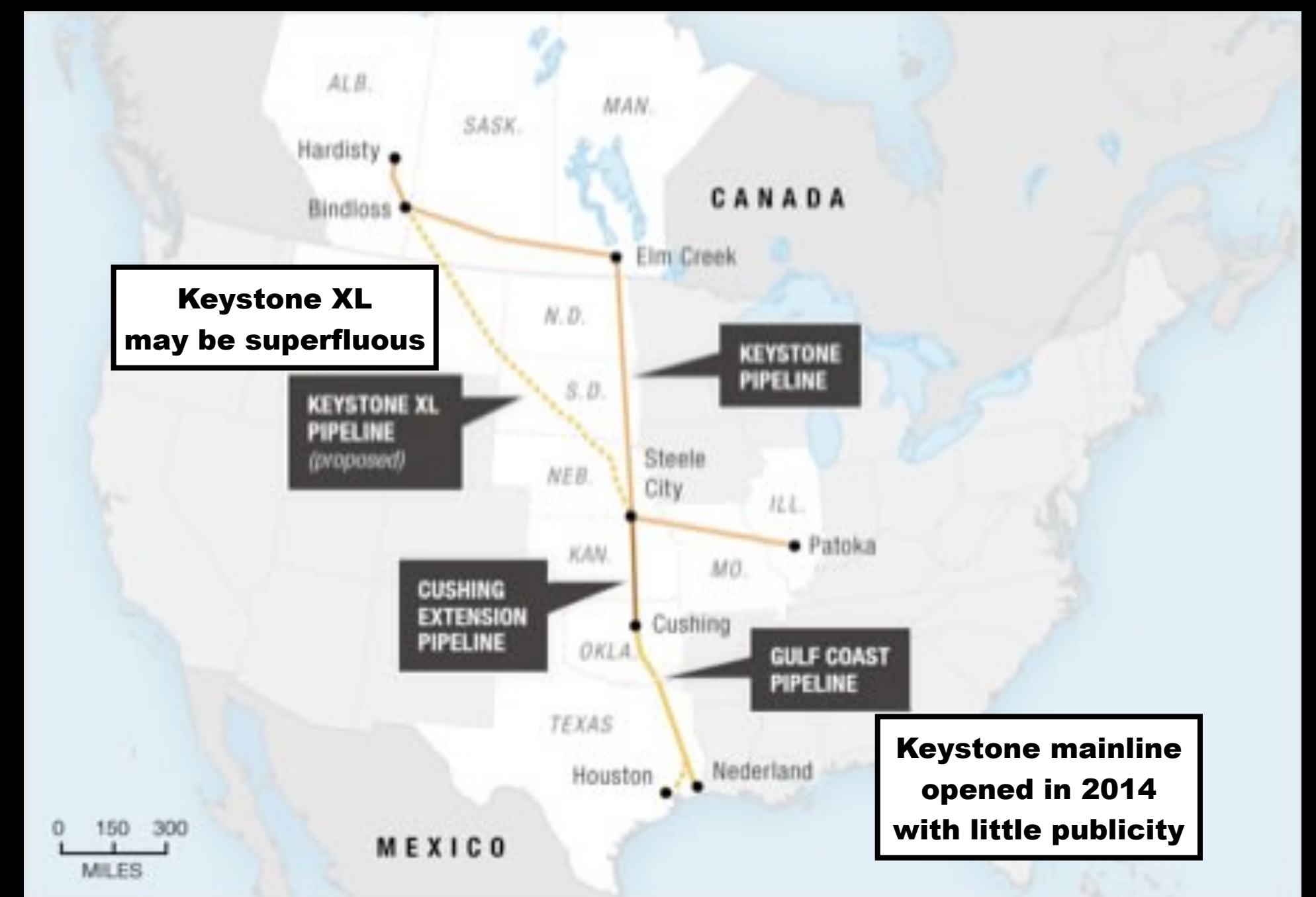
Source: NPD • Get the data • Created with Datawrapper



**Indonesia: no longer an oil exporter  
left OPEC because production declined  
and domestic consumption increased**



**Tar Sands**  
 eating the Earth  
 for cars







**This sign showing \$6 per gallon after Hurricane Katrina (2005) was at a Georgia gas station.**

**Peak Oil is not a scam from the oil companies to raise prices, although they are certainly taking advantage of Peak Oil to transfer vast amounts of wealth into their greedy pockets. If the United States became an authentic democracy, we could nationalize the oil companies and use the profits to help the whole society prepare for Peak Oil. Oil profits could be redirected to public transit, insulating homes and renewable energy systems. This would not be “socialism” but changing what is produced, not just who owns the means of production.**



**Dick Cheney said the  
American Way of Life (AWOL)  
is not negotiable.**



Saving Oil in a Hurry is from an International Energy Agency conference in 2005. This chart shows a variety of policies that could quickly reduce oil consumption in the event of urgent need. The specific reason was left vague but could include depletion of oil fields, policies to address climate change and of course, war that disrupts production.

Some policies would be more effective in some places than others. Making public transit free would have more impact in Japan, the Republic of Korea and Europe than in the US, Canada, Australia and New Zealand. Conversely, car pooling would help more in the latter countries than in the former.

The late activist Jan Lundberg, who left his family's oil consultancy to campaign against car culture, said the New York Times once offered to publish an op-ed by him but only if he focused on increasing tire pressure to make cars more efficient. He declined their offer. Among Jan's projects were the Alliance for a Paving Moratorium, Culture Change and the Sail Transport Network.

About a decade ago I shared this graphic with the Climate and Energy staffperson for the City of Eugene. He was literate about the risks Peak Oil poses to everything and said this graphic was extremely helpful. I asked what he planned to do with it, would he share it with his colleagues planning Eugene's future? He replied that he would keep it to his files, waiting for a time when sharing it would be better received. Unfortunately, advance planning for crisis works better than waiting for chaos.

Being in less of a hurry would save oil in a hurry.

# Percent reduction in total fuel use by IEA region, selected measures

