Russia, Europe and Global Gas: 2000-present

Kong Chyong

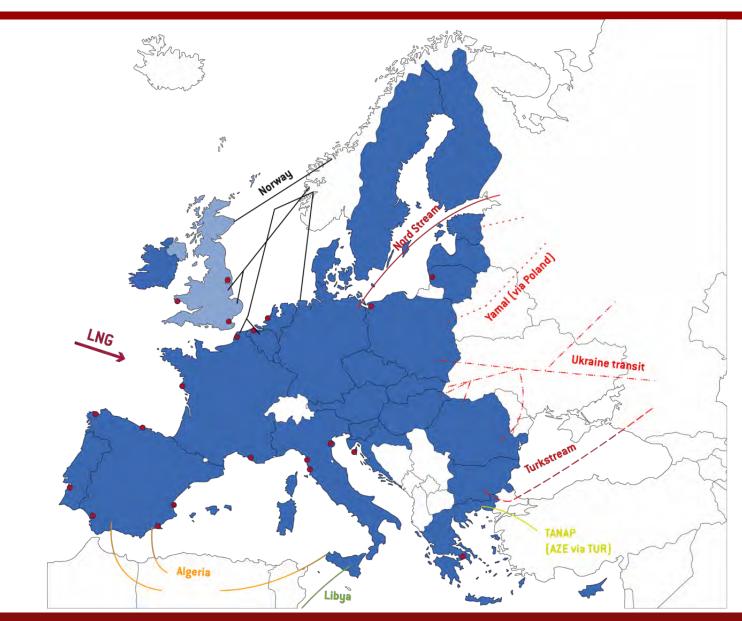
Cambridge Judge Business School University of Cambridge

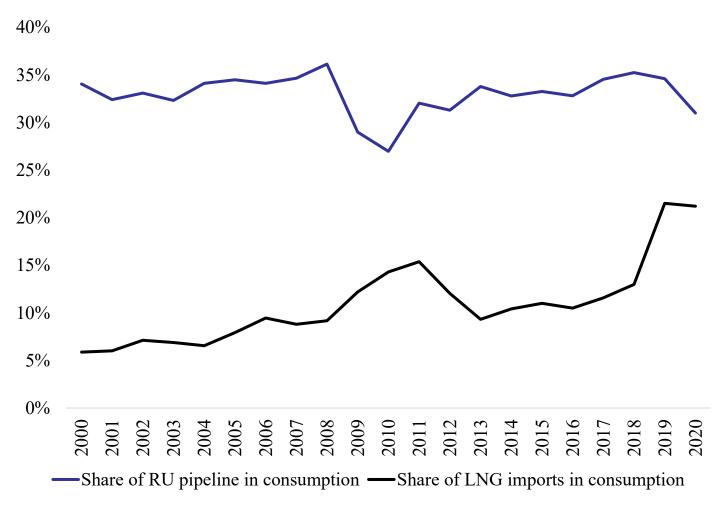
EPRG Spring Seminar, 6 May 2022

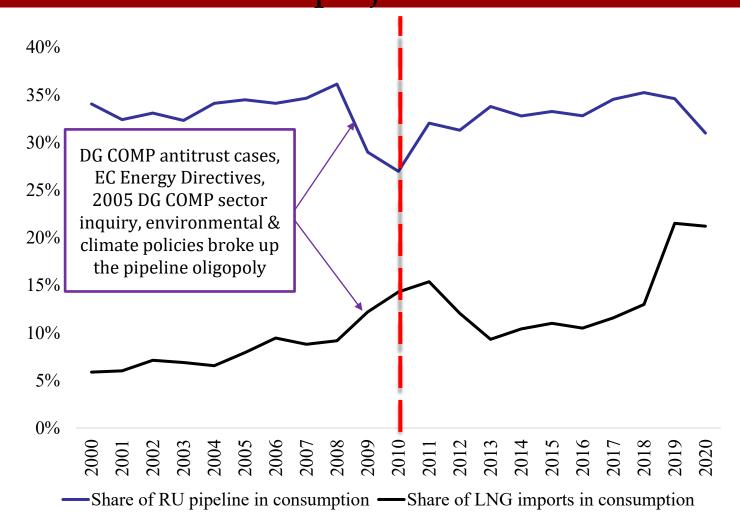
Key message

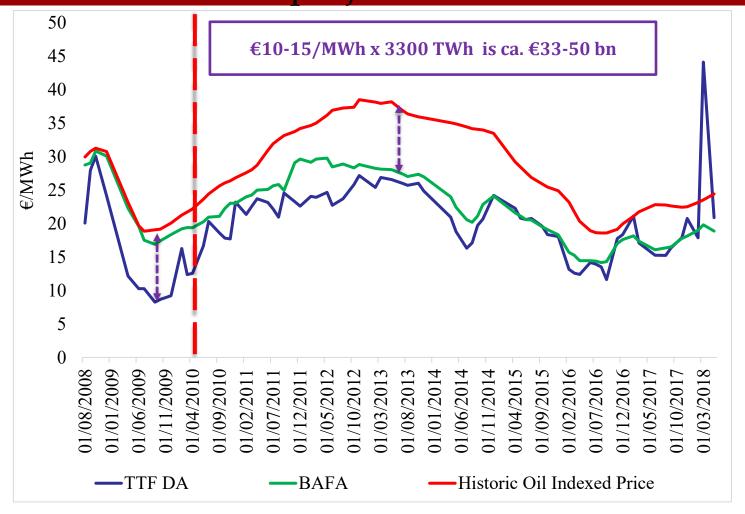
Despite a looming global geopolitical problem, European gas policy to date is not incompatible with its long-term gas security of supply objective

European gas supply sources







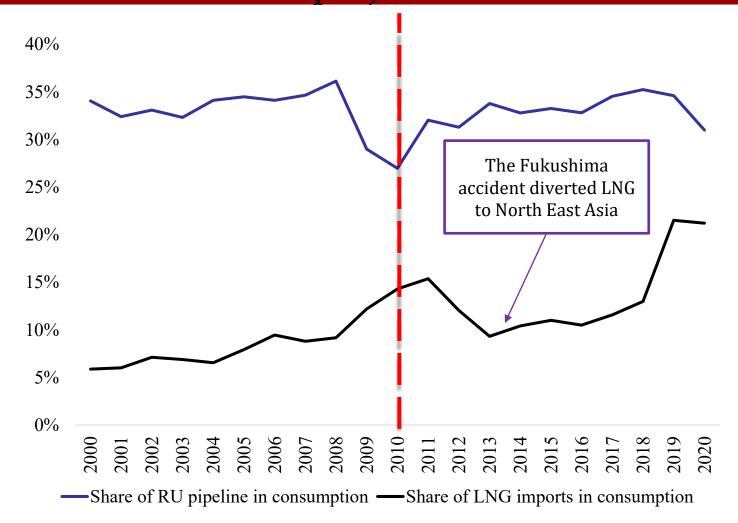


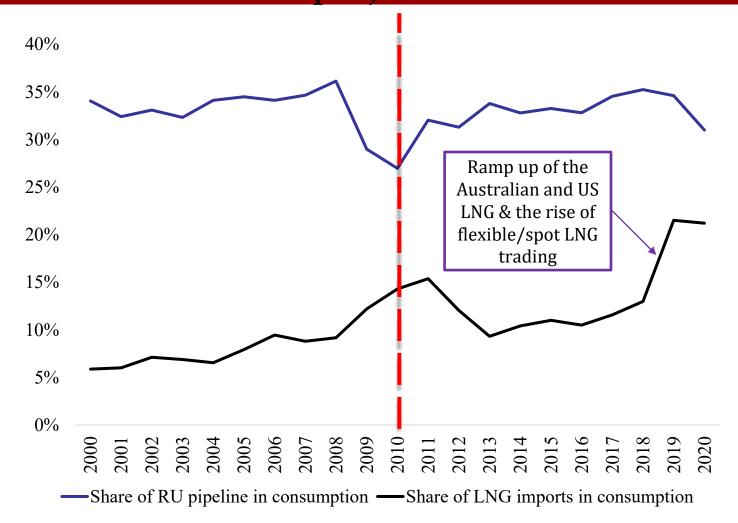
Source: Eikon terminal

Breaking up the Russian pipeline monopoly (including

Ukraine's transit monopoly)

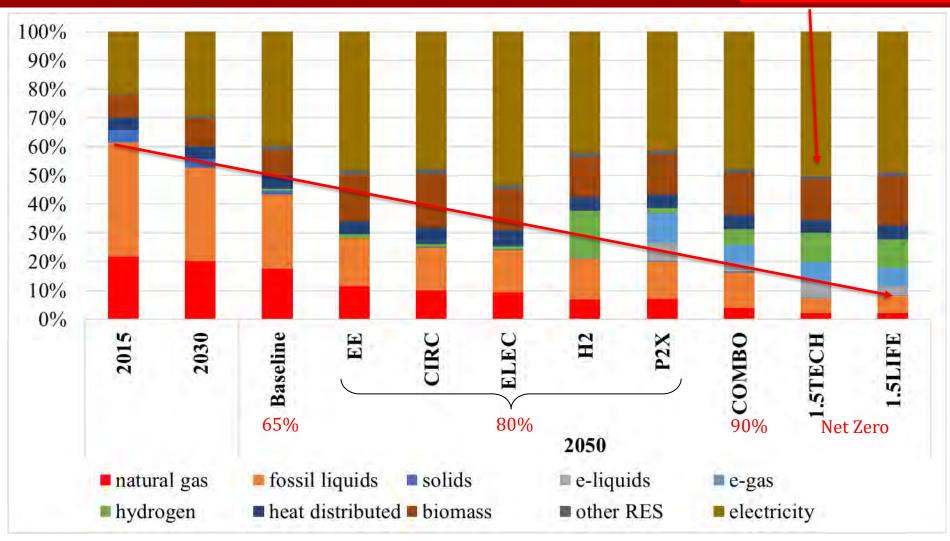
	1999	2006	2016	2020
LNG import capacity: Total	64	91	226	231
Belgium	6	6	10	10
Croatia	0	0	0	3
Finland	0	0	0	1
France	18	18	36	36
Greece	0	1	5	7
Italy	<u>4</u> 0	4	16	16
Portugal	0	6	8	8
Spain	<u>37</u> 0	52	73	73
UK	0	5	55	55
Lithuania	0	0	4	4
Netherlands	0	0	13	13
Poland	0	0	5	5
Sweden	0	0	1	1
Pipeline import capacity: Total	321	332	421	447
Russia	175	175	230	246
Norway	104	104	130	130
North Africa	42	53	61	61
Caspian region	0	0	0	10
EU Consumption*	460	512	449	452
Share of LNG capacity in consumption	14%	18%	50%	51%
Share of pipeline capacity in consumption	70%	65%	94%	99%
relative to 1999 - LNG import capacity	100%	141%	351%	359%
relative to 1999 - pipeline import capacity	100%	103%	131%	139%



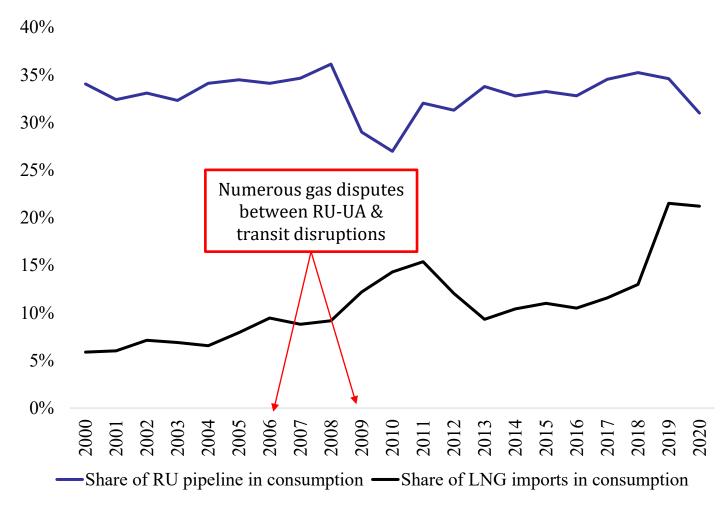


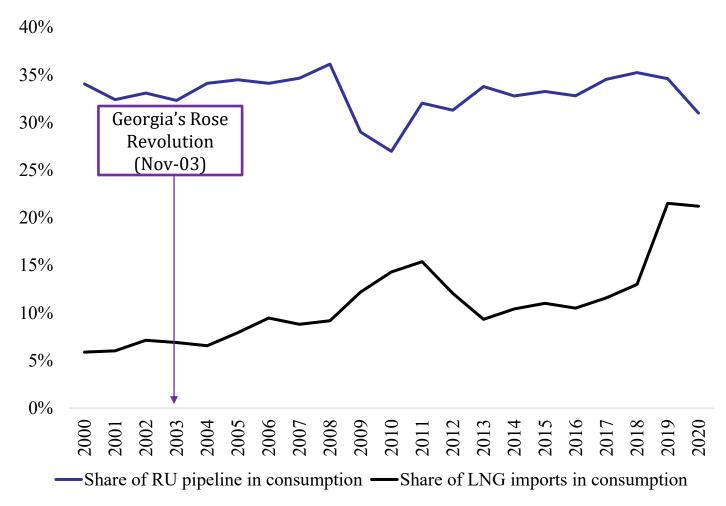
Dependence on fossil fuels and Net Zero

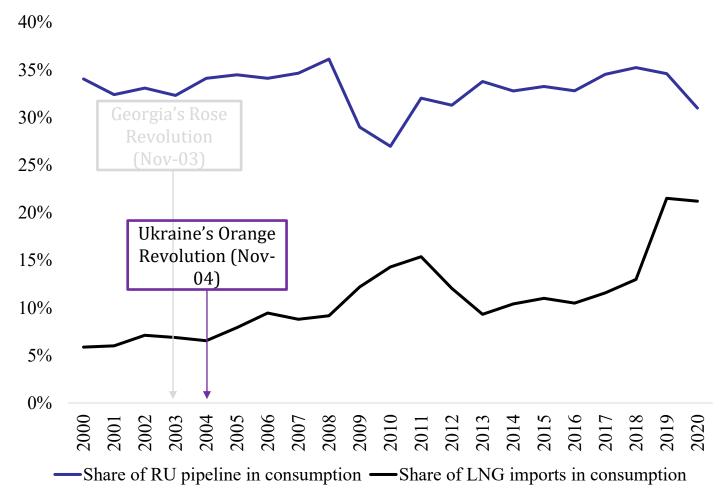
Central role of low-C electricity to replace fossil fuels

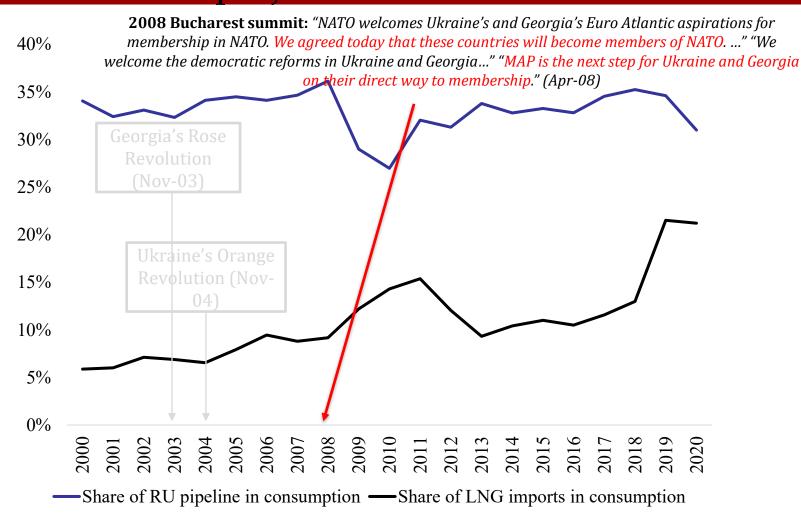


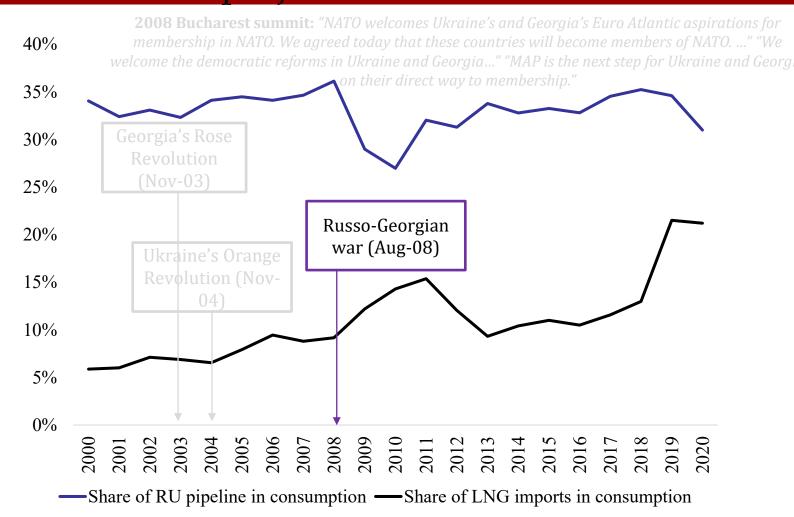
Source: EC (2018)

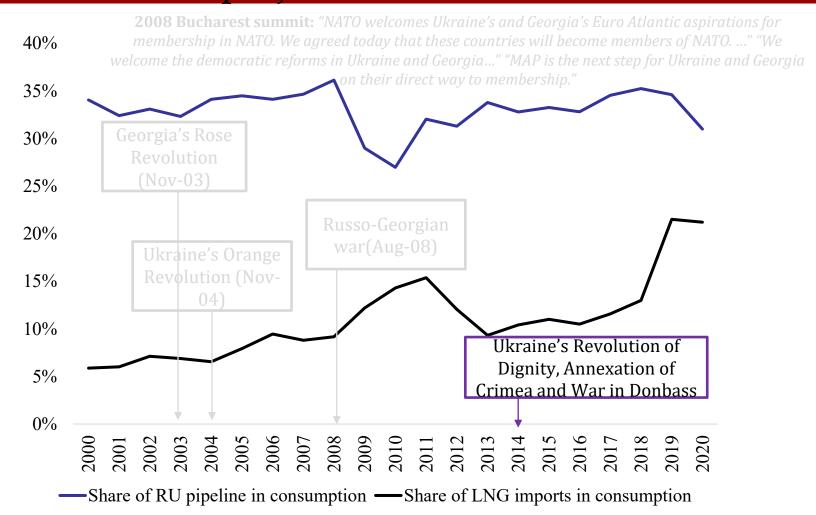


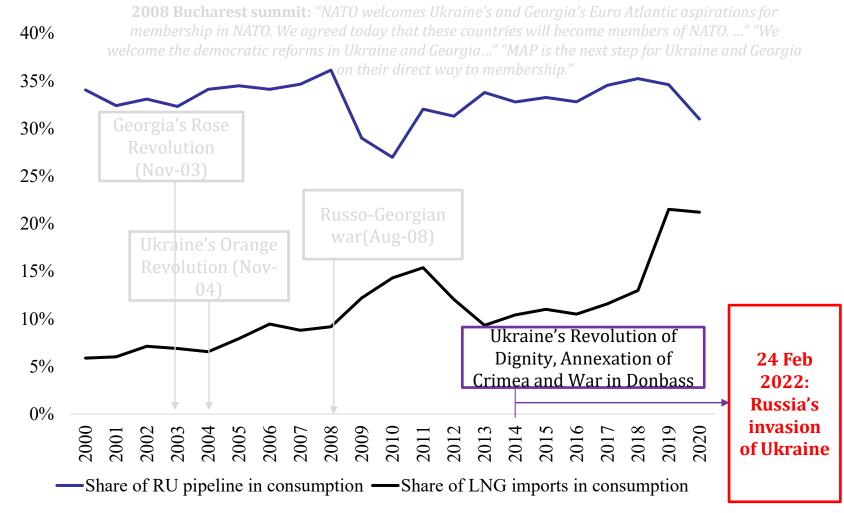












But is the geopolitical problem necessary an energy policy problem?



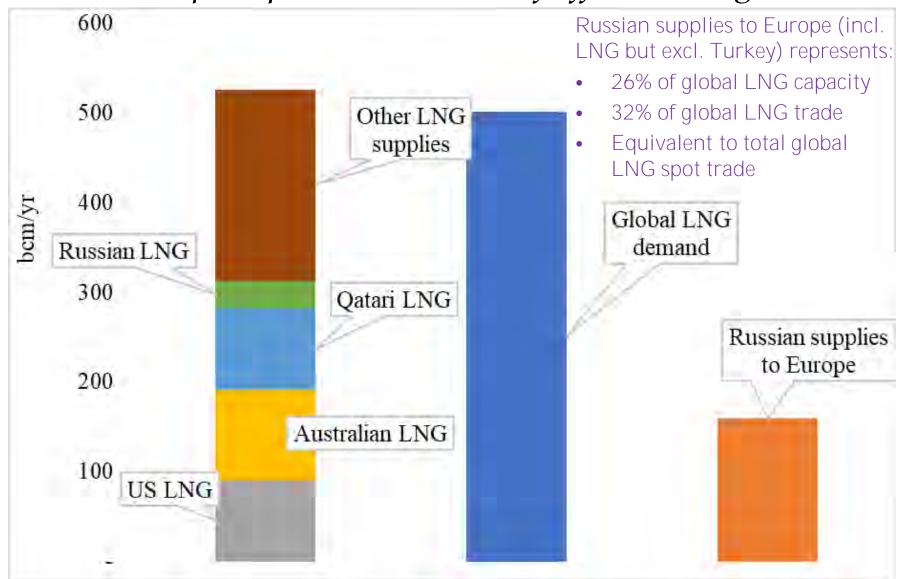
A couple hug each other while walking beside a building damaged during the shelling amid Russia's ongoing invasion of Ukraine, in Irpin, Ukraine March 31, 2022.



Image Credit: Masha Basova/Shutterstock.com

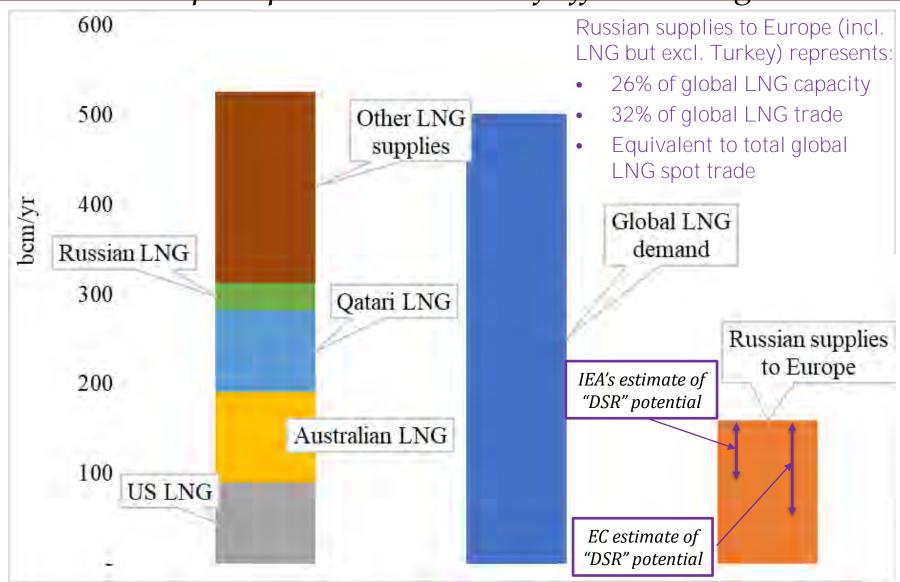
The answer seems to be YES

Europe's quest to wean itself off Russian gas

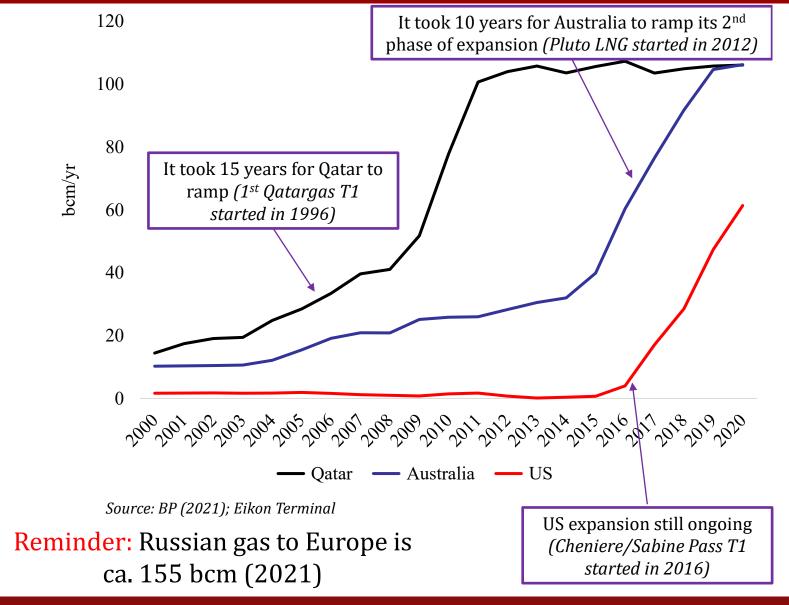


The answer seems to be YES

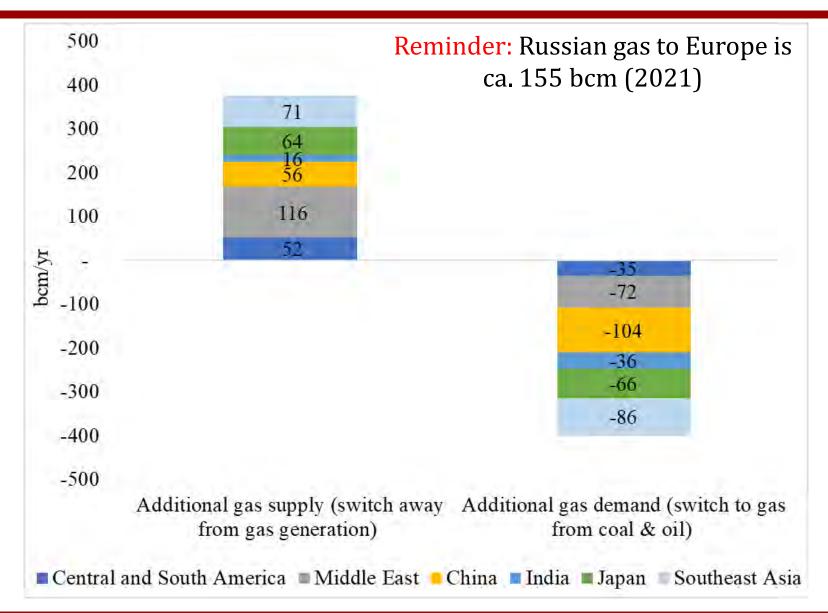
Europe's quest to wean itself off Russian gas



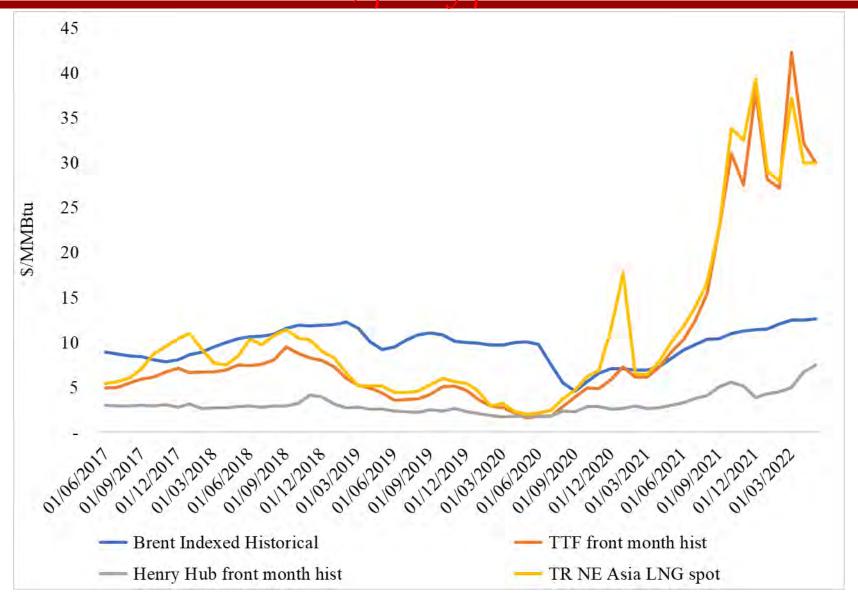
Ramping up LNG exports takes time



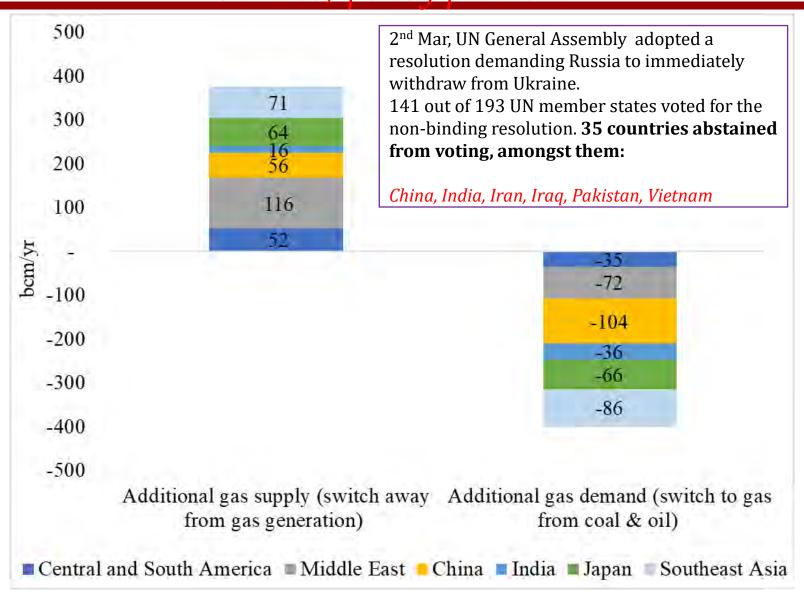
How about global demand response?



But is the geopolitical problem necessary a **global** energy (& climate) policy problem?



But is the geopolitical problem necessary a global energy (& climate) policy problem?



Some final facts

Russia's total exports reached \$489.8B in 2021. Of that:

- crude oil accounted for \$110.2B (22.5%),
- oil products for \$68.7B (14%),
- pipeline natural gas for \$54.2B and liquefied natural gas \$7.6B (12.6%).

Russia's military expenditure averaged 4.1% of its GDP between 2010-20, or \$61B (in 2021, GDP=\$1503B)