

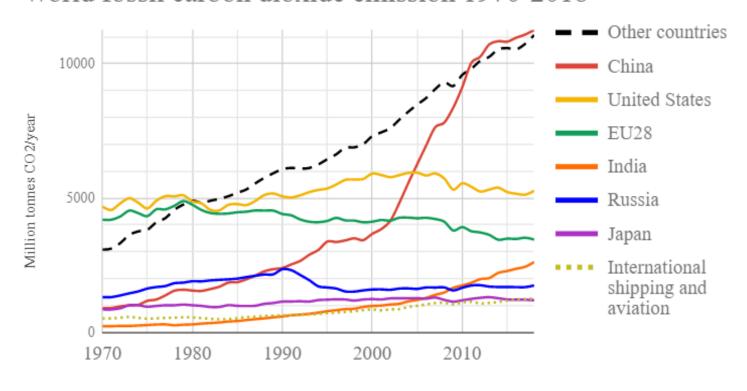
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Russian climate policy & COVID-19



Russia has decreased emission by 50% starting from 1990-ies, but it still ranks #5 carbon emitter globally and...

World fossil carbon dioxide emission 1970-2018

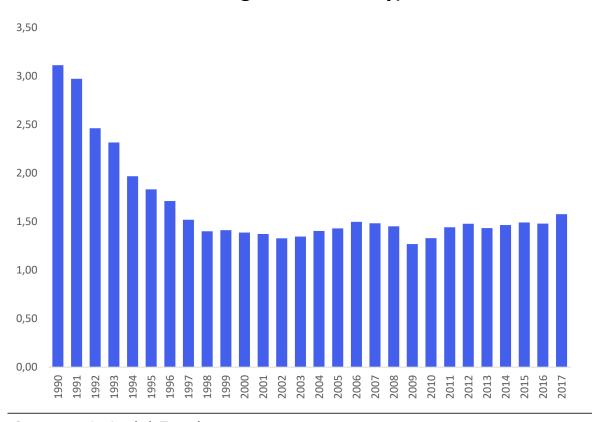


- In 1990-1998 emissions were reduced by more than 40% due to the economic collapse
- In 1998-2008 emissions were increasing in line with the GDP growth, by 2014 they constituted ~70% of the level of 1990.
- Russia has joined Paris
 Agreement in September 2019
- Detailed NDAs are not yet clear

Source: UNECE

...since 2009 Russian GHG emissions are increasing

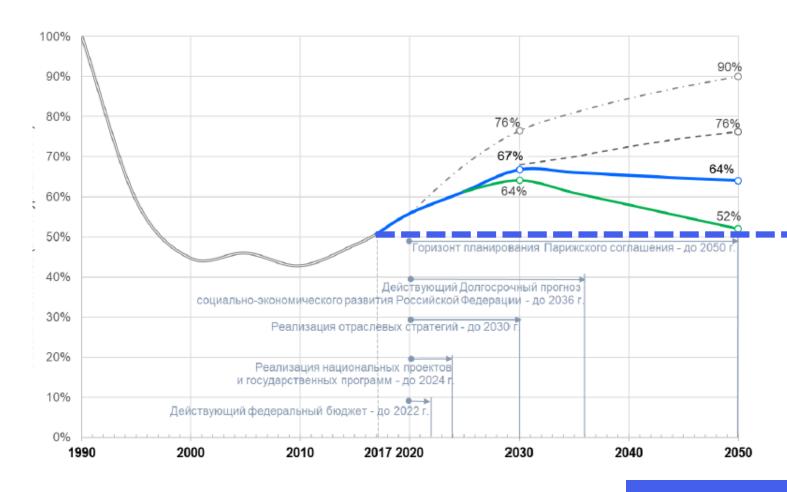
Russia`s total GHG emissions with LULUCF (Land use, land-use change, and forestry) in kt CO₂e



Russia's GHG emissions by sector with LULUCF

GHG emissions (Mt CO2e)	% total emissions
•	68%
	26%
	16%
2.10	20/0
159	10%
144	9%
94	6%
-578	-37%
27	2%
1 578	100%
	(Mt CO₂e) 1 068 414 248 159 144 94 -578 27

Source: World Bank



52% of the 1990 level

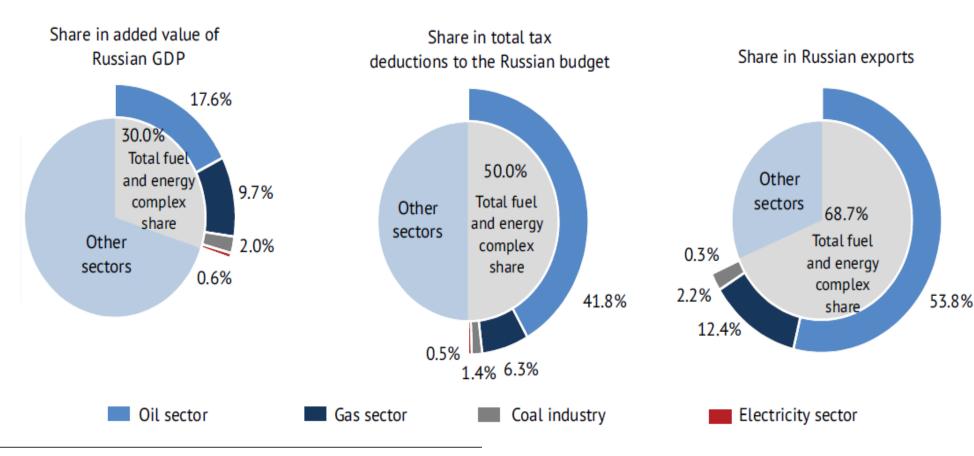
- Energy efficiency improvement is considered as the main driver of GHG emissions reduction
- Powerfuels are not the case

Anthropogenic GHG emissions targets in Russia are planned at the same level by 2050 as in 2017 (best case)

Source: draft of the Long-term low carbon development strategy, March 2020 (https://www.economy.gov.ru)

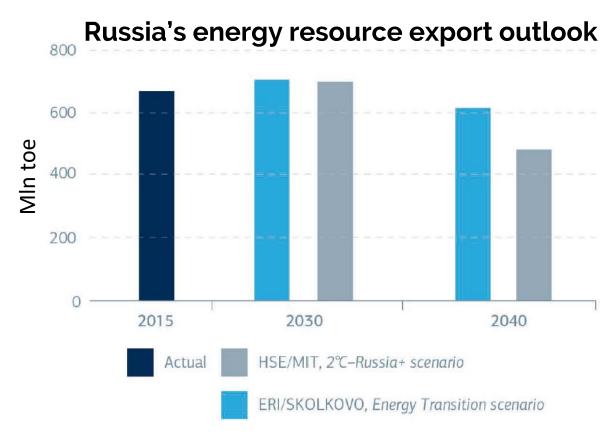
The role of oil&gas revenues for the Russian economy is extremely high

Shares of energy sector in Russian GDP, exports and budget



Energy transition globally and challenges for the Russian oil&gas exports

- Growing share of RES limits the demand growth for fossil fuels, thus resulting in lower than expected export volumes for hydrocarbons.
- Creation of border carbon adjustments
 (BCAs) as part of the carbon taxation
 mechanism might become a long-term
 source of instability for economies relying on
 fossil fuels.
- Banks and financial institutions are assessing climate risks and becoming more reluctant to provide financing for fossil fuel projects.



What could be Russia's stakes in the energy transition?

- **✓** Energy efficiency
- ✓ **Renewables** (solar, wind, tidal, biomass biomethane, pellets, small hydro), including potential export projects (Arctic wind, Yakutia solar + DC transmission)
- ✓ Nuclear (next generation reactors on fast neutrons)
- ✓ Natural gas replacing oil in transportation (maritime, road), LNG leadership
- ✓ Hydrogen (blue, green, yellow, turquoise?)
- ✓ CCUS (including for EOR)
- ✓ Offsets (including reforestation/ natural sinks investment projects)