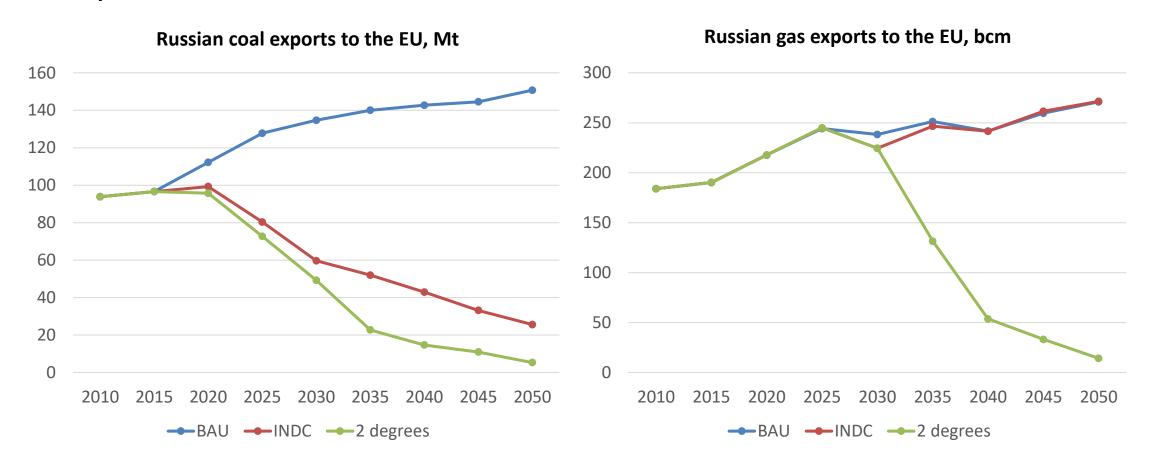
# Russia and Europe: cooperation or confrontation in green area?



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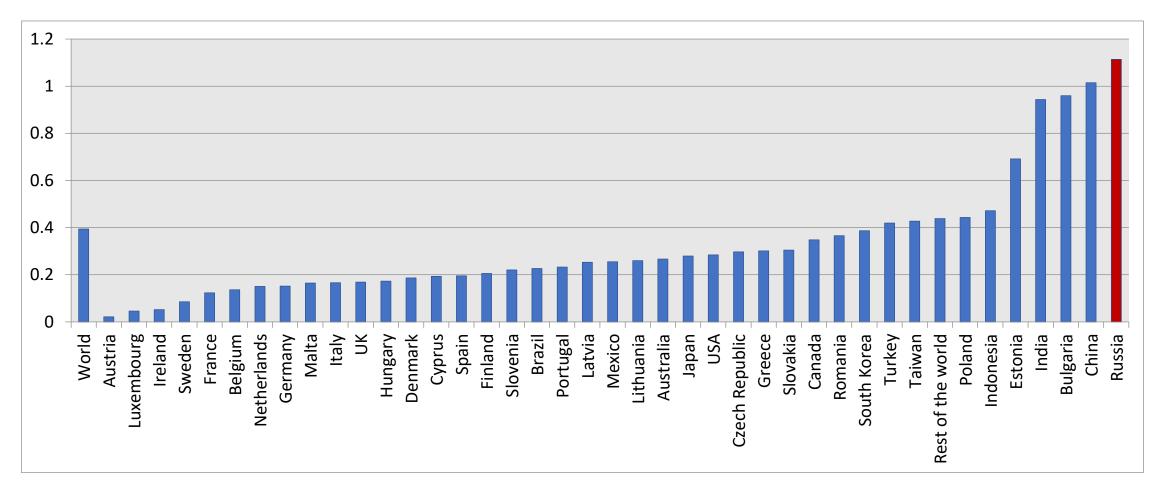
## Risks for Russia related to European Green Deal: exports of fossil fuels



Source: Makarov et al., 2020

## Risks for Russia related to European Green Deal: carbon border adjustment mechanism

Carbon intensity of Russia's exports, kg CO<sub>2</sub> per USD



Source: Makarov and Sokolova, 2017

### CBAM: Estimates of damage to Russian exporters

- Is planned by the EU starting from 2022-2023 in order to prevent carbon leakage and to promote green development in other countries
- Details are not clear yet (geographical and sectoral scope, part of carbon footprint etc.)

#### • KPMG:

- 3 scenarios:
  - pessimistic: 50.6 bn euro in 2022-2030
  - baseline: 33.3 bn euro in 2025-2030
  - optimistic: 6 bn euro in 2028-2030

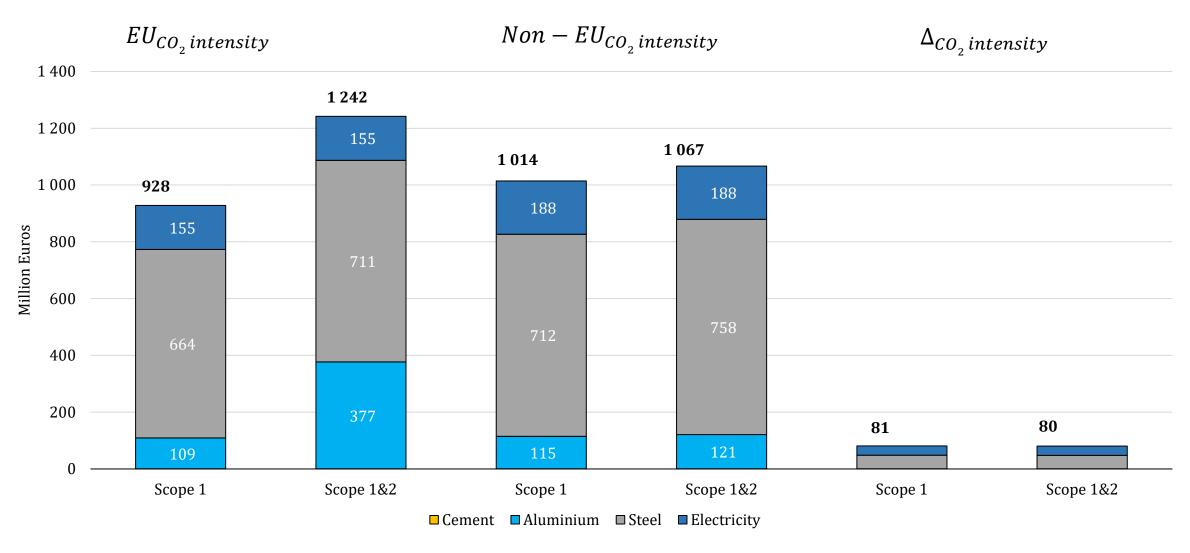
#### • BCG:

- 3-4.8 bn dollars/year, incl.:
  - oil and gas: 1.4-2.5 bn dollars/year
  - metals: 0.4-0.6 bn dollars/year
- Institute of Economic Forecasting of RAS:
  - 3.6 bn euro/year

### These estimates are likely to overestimate the damage:

- oil and gas industries are unlikely to be included to CBAM
- re-orientation of exports to other countries would decrease the costs
- some of competing countries are also likely to be affected

### Losses from CBAM for Russian exports to the EU



Source: ERCST, 2021

## OECD vs BRICS: importers and exporters of emissions embodied in trade

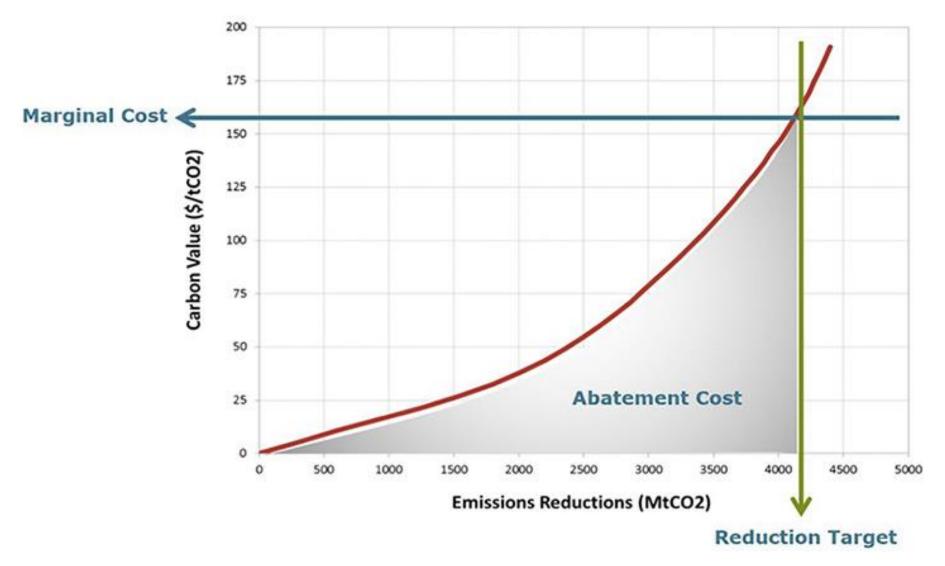
#### Consumption- and production-based emissions in OECD and BRICS countries in 2018

Country	Production- based emissions		Consumption- based emissions		Net exports of emissions	
	Mt	% of world	Mt	% of world	Mt	% of national emission s
OECD, total	12 602	34.6%	13 865	38.1%	-1 264	-10.0%
Canada	587	1.6%	588	1.6%	-2	-0.3%
France	332	0.9%	442	1.2%	-110	-33.3%
Germany	755	2.1%	862	2.4%	-106	-14.1%
Italy	348	1.0%	466	1.3%	-118	-33.8%
Japan	1 136	3.1%	1 312	3.6%	-177	-15.6%
Spain	270	0.7%	288	0.8%	-18	-6.6%
Sweden	42	0.1%	71	0.2%	-29	-69.5%
United Kingdom	380	1.0%	540	1.5%	-160	-42.1%
United States	5 425	14.9%	5 767	15.8%	-343	-6.3%

Country	Production- based emissions		Consumption- based emissions		Net exports of emissions	
	Mt	% of world	Mt	% of world	Mt	% of national emissio ns
BRICS, total	15 178	41.7%	13 554	37.2%	1 624	10.7%
Brazil	467	1.3%	489	1.3%	-22	-4.8%
China	9 957	27.3%	8 960	24.6%	997	10.0%
India	2 591	7.1%	2 355	6.5%	237	9.1%
Russia	1 691	4.6%	1 415	3.9%	277	16.4%
South Africa	472	1.3%	335	0.9%	137	29.0%

Source: OECD

## Opportunities related to EGD: it is cheaper to reduce emissions in Russia than in the EU



### Key issues

#### Forests projects:

- The potential of reforestation in Russia is estimated at 151 million ha with mitigation potentials of up to 351 Mt CO<sub>2</sub>/year (Leskinen et al., 2020)
- No system of certification and no recognition by the EU

### Hydro and nuclear:

- 36% of electricity production
- No recognition as green by the EU

#### • CCS:

- Too costly and probably risky
- Hydrogen:
  - Russia is willing to develop blue and yellow hydrogen (probably together with CCS)
  - The EU wants green hydrogen

## From "deal of the century" to EU-Russia Green Deal?





1970 2020s?

### Thanks for your attention!