HOW CAN RUSSIA SUCCESSFULLY NAVIGATE GLOBAL GREEN TRANSITION?





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RUSSIA IS LESS PREPARED TO MANAGE LOW-CARBON TRANSITION RISKS THAN FUEL IMPORTERS, BUT BETTER THAN MANY EXPORTERS





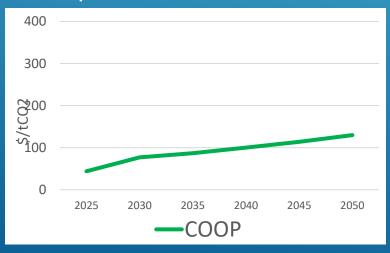
LONG-TERM STRATEGIES OF CLIMATE CLUBS

WHAT-IF EXPLORATORY SCENARIOS TO NAVIGATE DEEP UNCERTAINTY

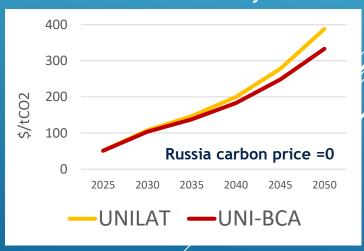
ENVISAGE model version with endogenous oil, gas and coal extraction module

Scenario	Climate policies	Trade policies
BAU (NDC)	BAU with unconditional NDCs	No carbon border adjustment taxes (CBAT)
COOP	Global cooperative carbon taxes	No carbon border adjustment taxes (CBAT)
UNILAT	Unilateral carbon taxes by climate policy leaders;FFDCs freeride	No carbon border adjustment taxes (CBAT)
UNI-BCAT		CBAT on carbon content of import from fossil fuel dependent countries

Cooperative Domestic Carbon Taxes

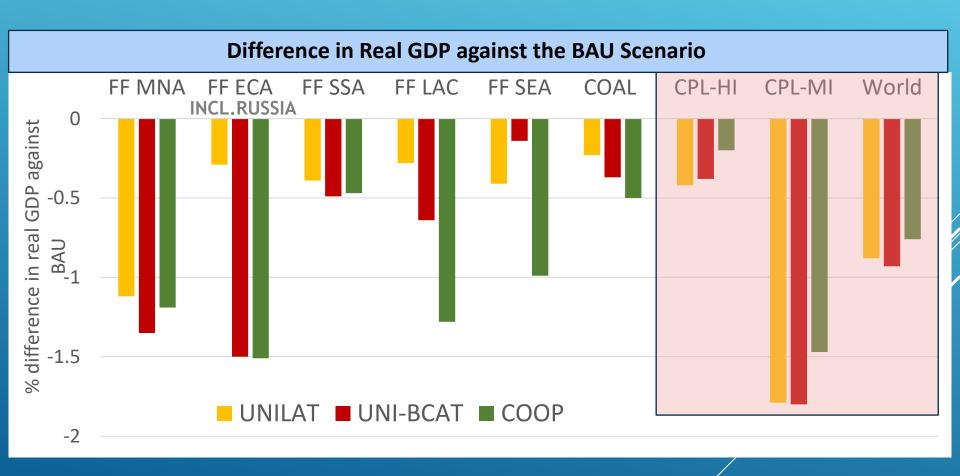


Unilateral Carbon Taxes by CPLs



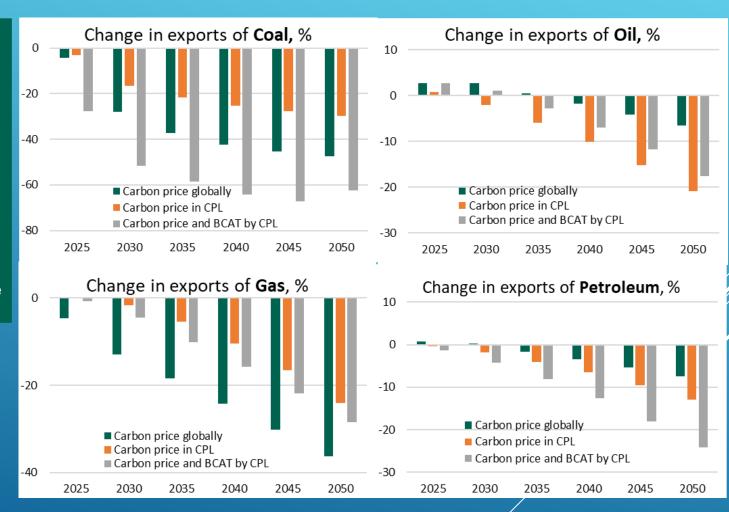
CPL CLUB HAS STRATEGIC INCENTIVES TO LEAD ON CLIMATE ACTION AND USE CBAT

MNA, ECA (inc. Russia) and Sub-Saharan Africa most vulnerable to border carbon taxes



MEDIUM-TERM RISKS OF GLOBAL DECARBONIZATION: IMPACTS ON RUSSIA'S ENERGY EXPORTS TO 2050

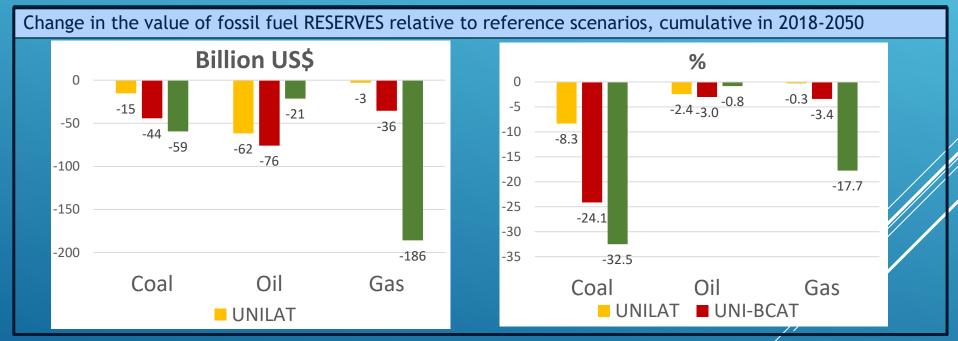
- Reduced global fossilfuel demand and prices lead to reduced fossilfuel exports and adversely impact terms of trade.
- Oil producers benefit from cooperative action by Russia, gas & coal could prefer no domestic carbon price.
- Border carbon adjustment (BCAT) by "climate policy leaders" (CPL) increases negative effects.



RUSSIAN OIL RENTS HIGHER WITH DOMESTIC COOPERATIVE CARBON PRICES

GAS AND COAL RENTS BENEFIT FROM NON-COOPERATION AND EMISSIONS LEAKAGE

- Lower CPL carbon prices in cooperative scenario prolong external demand and prices of Russian oil (no impact on CO₂)
- External carbon prices lower export revenues, reverse Dutch disease and helps domestic heavy manufacturing
- · Leakage of emissions to Russia compensate loss of export revenue by increase of domestic sales



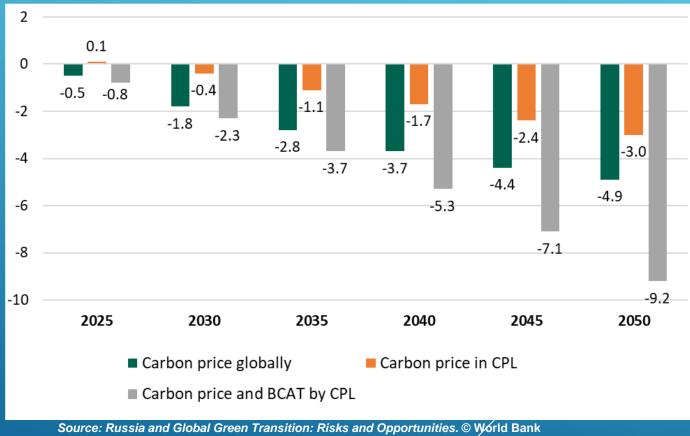
*Value of Assets: Discounted sum of expected resource rents (revenues - costs +/- taxes/subsidies) from commercially recoverable reserves over the lifetime of an asset

MEDIUM-TERM RISKS OF GLOBAL DECARBONIZATION: BENEFITS OF COOPERATION SCENARIOS FOR RUSSIA

Change in welfare by scenarios, % relative to the baseline level



Given the impacts of BCAT, a better strategy for Russia is to join global climate mitigation efforts to reduce the negative impacts on welfare and GDP.



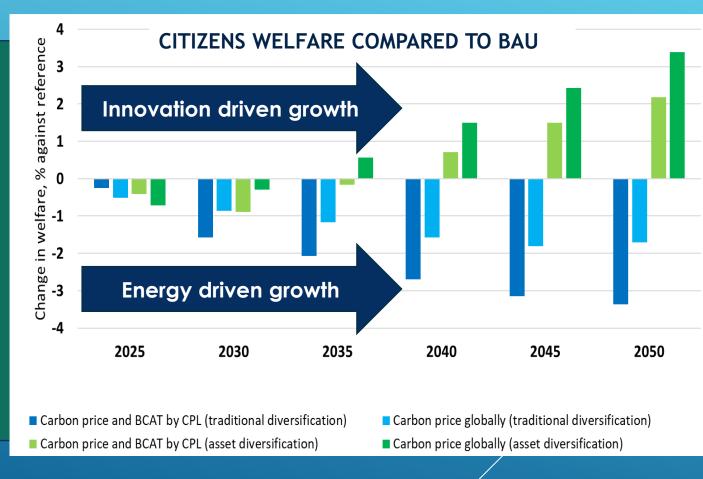
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ASSET DIVERSIFICATION THROUGH INNOVATION AND HUMAN CAPITAL UNLOCKS PRODUCTIVITY-DRIVEN GROWTH AND IMPROVED WELFARE

...but the social cost of initial transition will need to be addressed

Diversification with fossil fuel subsidies (1% of GDP to subsidize energy-intensive industrial sectors)

Diversification through innovation and knowledge (1% of GDP invested in education, R&D)



GREEN TRANSITION POLICIES CAN BE A DRIVER FOR ECONOMIC DIVERSIFICATION AND LONGER-TERM COMPETITIVENESS

Deeper diversification: Beyond hydrocarbon revenues AND beyond carbon-intensive industry and fuel-intensive value chains.

Comprehensive climate policy, with fiscal and pricing reforms at the core to create incentives for firms to invest in green innovation and households to change behavior.

Participation in global efforts to decarbonize economies and reduce GHG emissions – not necessarily carbon markets.

