"A Climate of Fairness" Environmental Taxation and Tax Justice in Developing Countries

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Fachtagung: Klimagerechtigkeit aus Entwicklingspolitischer Perspektive



A CLIMATE OF FAIRNESS

Environmental Taxation and Tax Justice in Developing Countries



Jacqueline Cottrell and Tatiana Falcão

November 2018

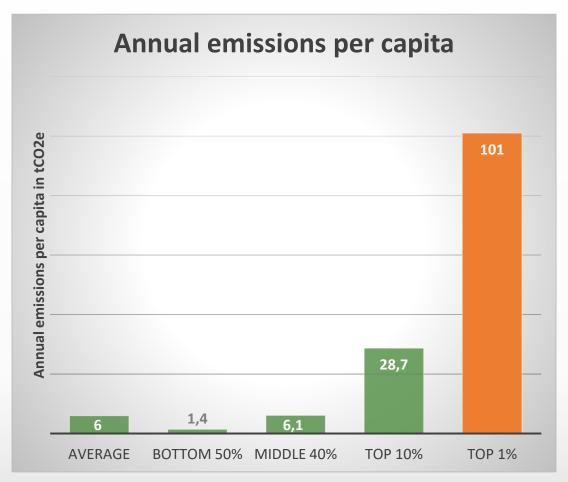
- Report on equity impacts of environmental taxes (ET) in middle and low-income countries
- Explores the potential for ET to safeguard environmental quality while reducing inequality
- Theoretical section: Legal and economic aspects
- Literature review: Generalized (tentative) conclusions, also on gender impacts and case studies
- http://archiv.vidc.org/fileadmin/Bibliothek/DP/A Climate of Fairness.pdf

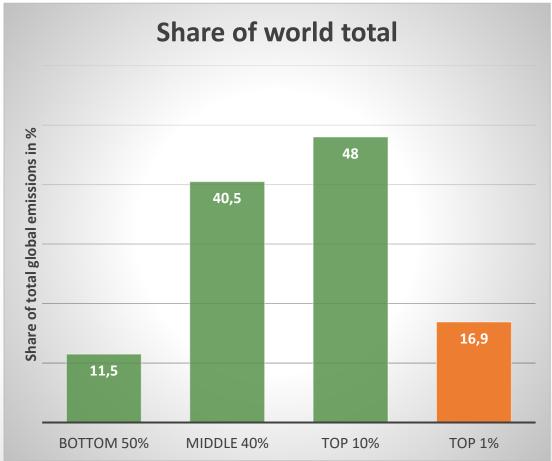
4 types of inequality

- 1. Inequality of contributions to pollution
- 2. Inequality of exposure to the impacts of climate change and environmental degradation
- 3. Inequality of representation in policymaking
- 4. Inequality of outcomes resulting from environmental taxation

Inequality of contributions worldwide

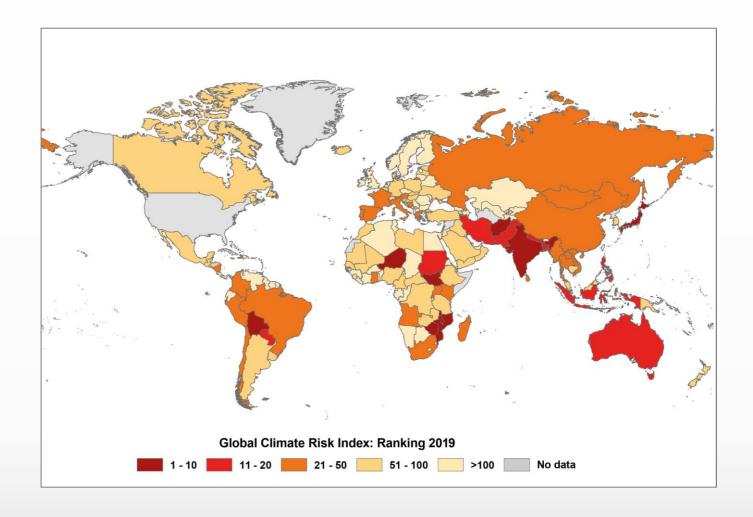
Emissions per capita by income category in tonnes CO2 equivalent





Source: World Inequality Lab https://wid.world/wp-content/uploads/2023/01/CBV2023-ClimateInequalityReport-3.pdf

Inequality of exposure



IPCC Climate Change 2022: Impacts Adaptation and Vulnerability:

- By 2030, there is a high risk that 35–132 million people will be pushed to extreme poverty
- Economic damages as share of income in 2100 are 9 times larger in the poorest 5% of counties than in the richest 5%

Inequality of representation

- Likely to lead to policies that favour greater protection of higherincome groups and perpetuate the administration of regressive policies
- Failing to incorporate marginalised groups in decision-making is likely to have implications for the environmental effectiveness of policies, esp. where communities have long-standing traditions of natural resource management
- Some claim that uneven power relations even more than exposure and sensitivity to climatic hazards – make the poor and disadvantaged more vulnerable than more affluent, privileged, and powerful groups and individuals

Inequality of outcomes of environmental taxes (ET)

Explainer: Why are social equity impacts of ETs so hotly debated?

We face several challenges when understanding equity impacts:

- 1. Ideally, we need to predict or understand changing impacts over time thus far, studies tend not to do this
- 2. Impacts even within one income group are not uniform and we need to analyse these differences
- 3. Overlapping dimensions of inequality make predicting impacts even more difficult, e.g. gender, age, ethnicity...
- 4. Indirect impacts are difficult to predict

Equity impacts of environmental taxes – general trends

Taxes on stationary energy use

- Carbon taxes on fossil fuels for power generation
- Household energy taxes

Taxes on mobile energy use and transport

- Carbon taxes on transport fuels
- Taxes on vehicle ownership
- Aviation taxes

Other environmental taxes, e.g. on:

- Agricultural inputs
- Pollution
- Waste
- Natural resources

Generally regressive, particularly in High-Income countries

May have progressive impact if energy access is low, or spending on energy unequally distributed

Concern: unwanted substitutions, e.g. replace butane/LPG/kerosene for cooking with biomass

Generally progressive or neutral, most progressive in least equal societies

Private vehicle ownership is low in many LMICs — such taxes can be considered a "luxury tax" in many contexts

Concern: indirect effects, e.g. pass through of fuel price increases drives commodity price increases

Less evidence available – context dependent

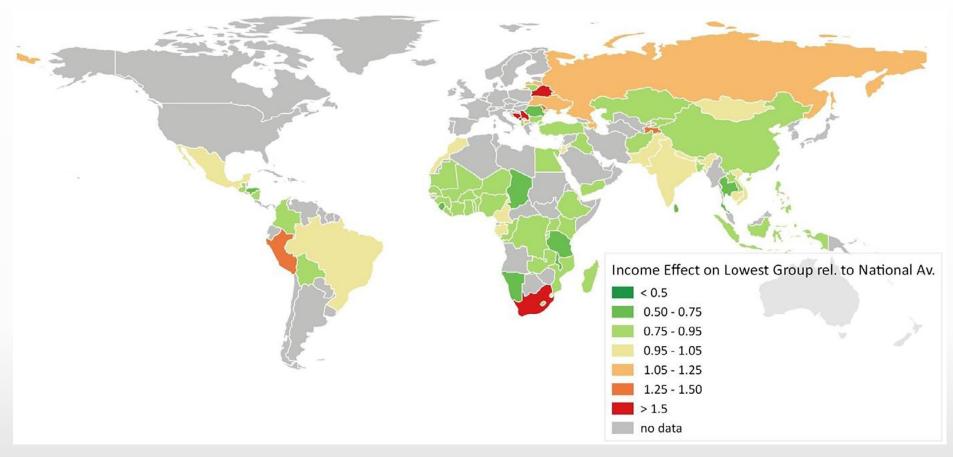
Regressive if livelihoods of vulnerable are affected

Progressive if resources are consumed more by high-income groups

Minimal impact if taxes are levied on exported products

In countries with per capita incomes of less than USD 15,000* per year, carbon pricing has progressive distributional effects

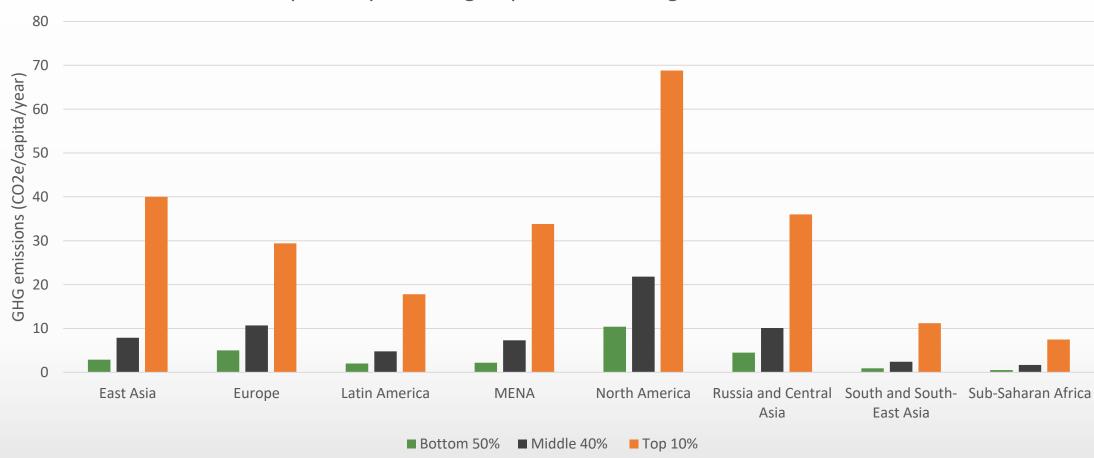
Income effect of a USD 30 / tCo₂ carbon tax on the lowest income group relative to the national average: values lower than 1 indicate progressive outcomes



^{*}PPP-adjusted for 2011 USD, modelling conducted in 87 countries

Carbon taxes can be a tool of climate justice

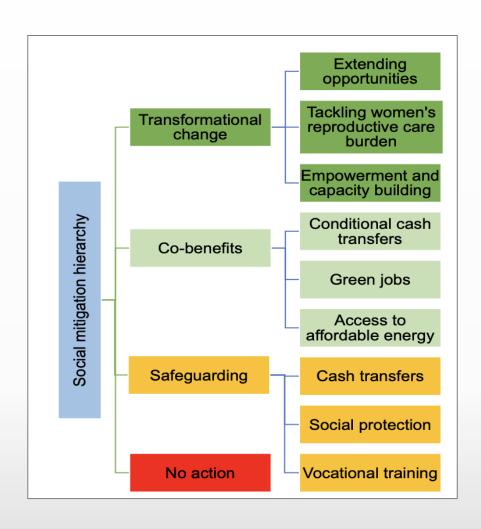
Carbon footprints by income group in different regions of the world in 2019

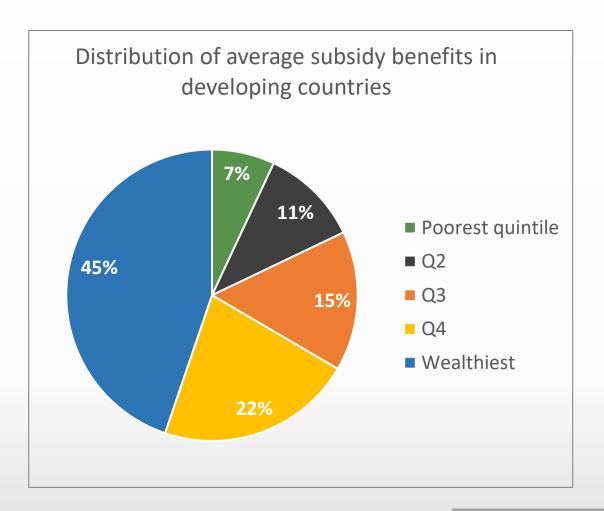


 $Source: World Inequality Lab \ \underline{https://wid.world/wp-content/uploads/2023/01/CBV2023-ClimateInequalityReport-3.pdf}$

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Key is understanding equity impacts and addressing them effectively





Final thoughts – recommendations (1)

ETs have several benefits for low- and middle-income countries:

- May enhance fiscal governance by boosting tax morale
- Difficult to evade
- Mobilize domestic revenue
- Deliver environmental benefits
- Social mitigation instruments can prevent or mitigate negative equity impacts

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Final thoughts – recommendations (2)

International cooperation should be explored:

- Levies on shipping and aviation could raise as much as USD 392 billion if all 195 Paris signatory countries participate
- Multilateral carbon tax treaty tax rates in line with "common but differentiated responsibilities"
- Alternatively: initiate the harmonization of carbon pricing between smaller groups of countries in combination with a Border Tax Adjustment, e.g. G20 countries (redesign CBAM?)
- Wealth taxes for climate finance?

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Thank you very much for your attention!



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