

Towards Political Feasibility: Burden-sharing Rules for Stabilizing Greenhouse Gas Concentrations from an Equity Perspective

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The authors selected three major equity principles, i.e., *egalitarian equity*, *horizontal equity*, and *proportional equality* (often referred to also as *sovereign equity*) to carry out a detailed examination of two sets of quantitative emission entitlements, which are based on two burden-sharing rules, i.e., the *equal emissions per capita* approach and the *carbon intensity* approach. We then used the two rules for allocating the global emissions described by a path leading to an atmospheric CO₂ concentration of 550 ppmv to 67 countries and 9 world regions. We then assessed how these allocations from the perspective of the three equity principles.