



GTAP Consortium Agency Report International Monetary Fund (IMF)

1. GTAP Model and Data Base Usage

The GTAP database 10 and 11 and the GTAP-E model have been extensively used for three lines of works:

- To assess policy options to curb carbon emissions
- To assess macroeconomic and financial stability issues related to the climate transition policies (so called “transition risk”). The model and the data are used to estimate the impact of several carbon reduction policies on sectoral GVAs and then translate those into risks for banks’ portfolios.
- To assess the macroeconomic consequences of trade restrictions, in particular related to geopolitical fragmentation

The use of those data and modeling framework has helped the IMF achieve its mission of multilateral surveillance, assessment of macroeconomic and financial stability and support to its membership with insights about the benefits of globalization and prevention of trade restrictions.

2. Publications

2022, A Comprehensive Package of Macroeconomic Policy Measures for Implementing China's Climate Mitigation Strategy, IMF Working Paper No. 2022/142

2022. Climate Policy Options: A Comparison of Economic Performance, IMF Working Paper No. 2022/242

2022 Economic and Environmental Benefits from International Cooperation on Climate Policies, IMF Departmental Paper

2022 Getting on Track to Net Zero: Accelerating a Global Just Transition in This Decade Energy Security, IMF Staff Climate Note

3. Presentations

Several presentations were given to several countries authorities related to all the mentioned publications.

4. Special Reports

2022 United Kingdom: IMF Financial Sector Assessment Program-Systemic Stress, and Climate-Related Financial Risks: Implications for Balance Sheet Resilience.

2022 Mexico: IMF Financial Sector Assessment Program-Financial System Stability Assessment in Mexico.

2023 IMF Selected Issue Papers. South Africa Article IV Staff Report. Carbon Pricing and Climate Mitigation Policy

2023 IMF Selected Issue Papers. Poland Article IV Staff Report. Balancing Decarbonization with Energy Security in Poland

5. Projects

We have several ongoing projects to use the GTAP data in our IMF-ENV (CGE) model to assess a comprehensive climate mitigation framework in India, Indonesia and Saudi Arabia. We are also working on financial stability analysis for Kazakhstan.

We are also working on projects to evaluate the macroeconomic effects of Russia's war in Ukraine and the effect of the Inflation Reduction Act (IRA) in the United States.