



**MIT Joint Program on the Science and Policy of Global Change  
Massachusetts Institute of Technology, Cambridge, USA**

<https://globalchange.mit.edu>

**GTAP-related activities, 2019**

The MIT Joint Program on the Science and Policy of Global Change made extensive use of the GTAP data set for research and analysis conducted in the program over the past year (see the following publication list). GTAP data serves as the principal economic data for the Program's Economic Projection and Policy Analysis (EPPA) Model, a global CGE model of the world economy with details on the energy sector and on emissions of greenhouse gases and other air pollutants. The EPPA model was used for variety of applications.

**2019 AND 2020 PUBLICATIONS BY MIT JOINT PROGRAM USING GTAP (AS OF MAY 2020)**

*Journal Publications:*

Paltsev, S., 2020, Projecting Energy and Climate for the 21st Century, *Economics of Energy and Environmental Policy*, 9(1), 43-62.

Winchester, N. and J. Reilly, 2020, The economic and emissions benefits of engineered wood products in a low-carbon future. *Energy Economics*, 85, 104596.

Chai, H.-C., W.-H. Hong, J. Reilly, S. Paltsev and Y.-H.H. Chen, 2019, Will Greenhouse Gas Mitigation Policies Abroad affect the Domestic Economy? The Case of Taiwan, *Climate Change Economics*, 10(4), 1950016.

Gurgel, A., S. Paltsev, and G. Breviglieri, 2019, The Impacts of the Brazilian NDC and their contribution to the Paris Agreement on Climate Change, *Environment and Development Economics*, 24(4), 395-412.

Arndt, C., P. Chinowsky, C. Fant, S. Paltsev, C. A. Schlosser, K. Strzepek, F. Tarp, and J. Thurlow, 2019, Climate Change and Developing Country Growth: The Cases of Malawi, Mozambique and Zambia, *Climatic Change*, 154, 335-349.

Morris, J., S. Paltsev, and A. Ku, 2019, Impacts of China's emissions trading schemes on deployment of power generation with carbon capture and storage, *Energy Economics*, 81, 848-858.

Morris, J., J. Farrell, H. Kheshgi, H. Thomann, H. Chen, S. Paltsev, H. Herzog, 2019, Representing the Costs of Low-Carbon Power Generation in Multi-region Multi-sector Energy-Economic Models, *International Journal of Greenhouse Gas Control*, 87, 170-187.

Winchester, N., 2019, A win-win solution to abate aviation CO2 emissions. *Journal of Air Transport Management*, 80 (Article 101692).

Singh, A., N. Winchester and V. Karplus, 2019, Evaluating India's climate targets: the implications of economy-wide and sector specific policies. *Climate Change Economics*, 10(3).

Morris, J., J. Reilly and H. Chen, 2019, Advanced Technologies in Energy-Economy Models for Climate Change Assessment, *Energy Economics*, 80, 476-490.

Winchester, N. and J. Reilly, 2019, The Economic, Energy and Emissions Impacts of Climate Policy in South Korea. *Climate Change Economics*, 10(3).

#### *MIT Reports:*

Landry, E., C.A. Schlosser, Y.-H.H. Chen, J. Reilly and A. Sokolov, 2019, MIT Scenarios for Assessing Climate-Related Financial Risk. MIT Joint Program Report 339 (<http://globalchange.mit.edu/publication/17392>)

MIT Energy Initiative, 2019, "Insights into Future Mobility," Cambridge, MA: MIT Energy Initiative.

Chen, Y.-H.H., J. Reilly, and S. Paltsev, 2019, Did the shale gas boom reduce US CO2 emissions? MIT Joint Program Report 336 (<http://globalchange.mit.edu/publication/17237>)

Hong, W-H., H-C. Chai, Y-H. H. Chen, J. Reilly, and S. Paltsev, 2019, Implications of Updating the Input-output Database of a Computable General Equilibrium Model on Emissions Mitigation Policy Analyses. MIT Joint Program Report 334 (<http://globalchange.mit.edu/publication/17198>)