

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

<http://globalchange.mit.edu>

GTAP-related activities, 2015

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.

**2015 AND 2016 PUBLICATIONS BY MIT JOINT PROGRAM USING GTAP (AS OF
MAY 2016)**

Journal Publications:

Octaviano, C., S. Paltsev, and A. Gurgel, 2016, "Climate change policy in Brazil and Mexico: Results from the MIT EPPA model," *Energy Economics*, in press.

Chen, Y-H., S. Paltsev, J. Reilly, J. Morris and M. Babiker, 2016, "Long-term Economic Modeling for Climate Change Assessment," *Economic Modeling*, 52, 867-883.

Qi, T., N. Winchester, D. Zhang and X. Zhang, 2016, "An analysis of China's climate policy using the China-in-Global Energy Model," *Economic Modeling*, 52, 650-660.

Paltsev, S., V. Karplus, H. Chen, I. Karkatsouli, J. Reilly, and H. Jacoby, 2015, "Regulatory Control of Vehicle and Power Plant Emissions: How Effective and at What Cost?" *Climate Policy*, 15(4), 438-457.

Winchester, N. and J.M. Reilly, 2015, The feasibility, costs, and environmental implications of large-scale biomass energy, *Energy Economics*, 51, 188-203.

Karplus, V., P. Kishimoto and S. Paltsev, 2015, "The global energy, CO2 emissions, and economic impact of vehicle fuel economy standards," *Journal of Transport Economics and Policy*, 49(4), 517-538.

Paltsev, S., E. Monier, J. Scott, A. Sokolov, and J. Reilly, 2015, "Integrated Economic and Climate Projections for Impact Assessment," *Climatic Change*, 131(1), 21-33.

Nam, K-M., C. Waugh, S. Paltsev, J. Reilly, and V. Karplus, 2015, "Synergy between Pollution and Carbon Emissions Control: Comparing China and the United States," *Energy Economics*, 46, 186-201.

MIT Joint Program Reports:

Ejaz, Q., S. Paltsev, D. Kicklighter and N. Winchester, 2016, Are Land-use Emissions Scalable with Increasing Corn Ethanol Mandates in the United States? MIT Joint Program Report 295, Cambridge MA.
<http://globalchange.mit.edu/research/publications/2975>

Zhang, D. and S. Paltsev, 2016, The Future of Natural Gas in China: Effects of Pricing Reform and Climate Policy, MIT Joint Program Report 294, Cambridge MA.
<http://globalchange.mit.edu/research/publications/2963>

Chen, Y.-H.H., M. Babiker, S. Paltsev and J. Reilly, 2016, Costs of Climate Mitigation Policies, MIT Joint Program Report 292, Cambridge MA.
<http://globalchange.mit.edu/research/publications/2957>

Paltsev, S., A. Sokolov, H. Chen, X. Gao, A. Schlosser, E. Monier, C. Fant, J. Scott, Q. Ejaz, E. Couzo, R. Prinn and M. Haigh, 2016, Scenarios of Global Change: Integrated Assessment of Climate Impacts, MIT Joint Program Report 291, Cambridge MA.
<http://globalchange.mit.edu/research/publications/2948>

Gillingham, K., W. Nordhaus, D. Anthoff, G. Blanford, V. Bosetti, P. Christensen, H. McJeon, J. Reilly and P. Sztorc, 2015, Modeling Uncertainty in Climate Change: A Multi-Model Comparison, MIT Joint Program Report 290, Cambridge MA.
<http://globalchange.mit.edu/research/publications/2939>

Ramberg, D.J., Y.H.H. Chen, S. Paltsev and J. Parsons, 2015, The Influence of Gas-to-Liquids and Natural Gas Production Technology Penetration on the Crude Oil-Natural Gas Price Relationship, MIT Joint Program Report 288, Cambridge MA.
<http://globalchange.mit.edu/research/publications/2935>

Jacoby, H.D. and Y.H.-H. Chen, 2015, Launching a New Climate Regime, MIT Joint Program Report 286, Cambridge MA.
<http://globalchange.mit.edu/research/publications/2925>

Paltsev, S., Y.-H.H. Chen, V. Karplus, P. Kishimoto and J. Reilly, 2015, Impacts of CO2 Mandates for New Cars in the European Union, MIT Joint Program Report 281, Cambridge MA.
<http://globalchange.mit.edu/research/publications/2901>

Chen, Y.-H.H., S. Paltsev, J.M. Reilly, J.F. Morris and M.H. Babiker, 2015, The MIT EPPA6 Model: Economic Growth, Energy Use, and Food Consumption, MIT Joint Program Report 278, Cambridge MA.

<http://globalchange.mit.edu/research/publications/2892>

Winchester, N., R. Malina, M.D. Staples and S.R.H. Barrett, 2015, The Impact of Advanced Biofuels on Aviation Emissions and Operations in the U.S., MIT Joint Program Report 275, Cambridge MA.

<http://globalchange.mit.edu/research/publications/2876>

Winchester, N. and J.M. Reilly, 2015, The Contribution of Biomass to Emissions Mitigation under a Global Climate Policy, MIT Joint Program Report 273, Cambridge MA.

<http://globalchange.mit.edu/research/publications/2865>