

# VALERIE J. KARPLUS

MIT Sloan School of Management  
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Cambridge, MA 02142 U.S.A.

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## EMPLOYMENT

**Assistant Professor, Global Economics and Management Group, Sloan School of Management,** Massachusetts Institute of Technology, Cambridge, MA (July 2014 – Present)

**Visiting Assistant Professor, Management Science and Engineering,** Stanford University, Palo Alto, CA (January – June 2017)

**Co-Director, China Energy and Climate Project (July 2011 – May 2016) / Research Scientist, MIT Joint Program on the Science and Policy of Global Change (July 2011 – June 2014),** Massachusetts Institute of Technology, Cambridge, MA

**Research Associate,** National Institute of Biological Sciences, Beijing, China (2005-2006)

**Fellow,** Robert Bosch Fellowship Program, worked at the German Federal Foreign Office (Berlin, Germany) and KfW Development Bank (Frankfurt, Germany) (2004-2005)

**Luce Scholar,** Luce Scholars Program, College of Humanities and Development, China Agricultural University, Beijing, China (2002-2003)

## EDUCATION

**Massachusetts Institute of Technology,** Cambridge, MA, Ph.D., Engineering Systems Division (Technology, Management, and Policy), June 2011.

**Massachusetts Institute of Technology,** Cambridge, MA, M.S., Technology and Policy and Civil and Environmental Engineering, June 2008.

**Yale University,** New Haven, CT, B.S., Molecular Biophysics and Biochemistry and Political Science, May 2002.

## LANGUAGES

English (native), Mandarin Chinese (fluent), German (fluent)

## AWARDS

Top 40 Management Professors Under 40 (Poets and Quants) (2016), Pyke Johnson Paper Award (2012), USAEE/IAEE Student Paper Award (2010), EPA STAR Graduate Fellowship (2010), Martin Family Fellowship for Sustainable Development Professionals (2009-2010), Atlantik-Brücke e.V. Young Leader (2008), Robert Bosch Fellowship (2004-2005), Luce Scholars Program (2002-3)

## MEMBERSHIPS

International Association of Energy Economics, Transportation Research Board (Energy and International Trade and Transport Committees), U.S.-China Climate Change Track II

## TEACHING

Global Strategy and Organization (MIT, Spring 2014, Fall 2014)

New Models for Global Business (MIT, Fall 2015)

Entrepreneurship without Borders (MIT, Fall 2014, Fall 2015)

China and India Lab (MIT, Spring 2018)

Global Energy: Politics, Markets, and Policies (MIT, Spring 2018)

Mentor for Global Entrepreneurship Lab, China Lab, Global Organizations Lab (MIT, 2015-2018)

TA for Applications of Technology in Energy and the Environment (MIT, Fall 2007)

Various short courses on energy, climate change, transportation, and microeconomics (MIT)

## RESEARCH IN PROGRESS

### WORKING PAPERS

\* Authors are listed in alphabetical order. \*\* First author is a doctoral student I advised or co-advised.

\*Filippini, M., Geissmann, T., Karplus, V.J., and Zhang, D. (2018). A green bargain? The Impact of an Energy Efficiency Program on Productivity Growth in China's Iron and Steel Industry. [MIT CEEPR Research Brief SSRN Working Paper](#)

Karplus, V.J. and Zhang, D. (2018). Closing the Energy Efficiency Gap in Manufacturing Firms: The Role of Management. [ARCS Conference Paper](#)

Karplus, V.J., Shen, X., and Zhang, D. (2018). Herding cats? Firm-level performance in China's industrial energy conservation program.

Karplus, V.J., Zhang, S., and Almond, D. (2018). Investigating Corrupt Mayors Reduces SO<sub>2</sub> Pollution from Coal Power Plants in China.

\*\*Qiu, M., Weng, Y., Cao, J., Selin, N.E., and Karplus, V.J. (2018). Co-benefits of Energy and Environmental Policy: Evidence from Industrial Firms in China.

\*\*Singh, A., Winchester, N., and Karplus, V.J. (2018). Evaluating India's Climate Targets: The Implications of Economy-Wide and Sector-Specific Policies.

### PEER-REVIEWED RESEARCH (1404 citations, h-index: 19, i10-index: 30 as of September 2018)

\*\*Helveston, J.P., Wang, Y., Karplus, V.J., and Fuchs, E.R.H. (2018). Institutional Complementarities: The Origins of Experimentation in China's Plug-in Electric Vehicle Industry. *Research Policy*.

Karplus, V.J., Zhang, S., & Almond, D. (2018). Quantifying coal power plant responses to tighter SO<sub>2</sub> emissions standards in China. *Proceedings of the National Academy of Sciences*, Early Release Version (201800605).

\*\*Li, M., Zhang, D., Li, C.-T., Mulvaney, K., Selin, N.E., and Karplus, V.J. (2018). Air Quality Co-benefits of Carbon Pricing in China. *Nature Climate Change*, 8(5), 398-403.

Wong, C. and Karplus, V.J. (2017). China's War on Air Pollution: Can Existing Governance Structures Support New Ambitions? *The China Quarterly*, 1-23.

Karplus, V.J., & Zhang, X. (2017). Incentivizing firm compliance with China's national emissions trading system. *Economics of Energy & Environmental Policy*, 6(2), 73-86.

\*\*Kishimoto, P.N., Karplus, V.J., Zhong, M., Saikawa, E., Zhang, D., & Zhang, X. (2017). The impact of coordinated policies on air pollution emissions from road transportation in China. *Transportation Research Part D: Transport and Environment*, 54, 30-49.

\*\*Luo, X., Zhang, D., Caron, J., Zhang, X.L., Karplus, V.J. (2016). Dynamic Effects of Interprovincial Migration on the Stringency of Energy Policy in China. *Energy Economics*, 58, 164-173.

\*\*Davidson, M., Zhang, D., Xiong, W., Zhang, X., and Karplus, V.J. (2016). Integrating Wind into China's Coal-Heavy Electricity System. *Nature Energy*, 1, 1-7.

- Karplus, V.J., Rausch, S., and Zhang, D. (2016). Energy Caps: Alternative Climate Policy Instruments for China? *Energy Economics*, 56, 422-431.
- Zhang, X., Karplus, V.J., Qi, Tianyu, Zhang, D., and He, J. (2016). CO<sub>2</sub> Emissions in China: How Far Can New Efforts Bend the Curve? *Energy Economics*, 54, 388-395.
- \*\*Zhang, D., Springmann, M., and Karplus, V.J. (2015). Equity and Emissions Trading in China. *Climatic Change*, 134, 131-146.
- Karplus, V.J., Kishimoto, P., and Paltsev, S. (2015). The Global Energy, CO<sub>2</sub> Emissions and Economic Impact of Vehicle Fuel Economy Standards. *Journal of Transport Economics and Policy*, 49(4), 517-538.
- \*\*Springmann, M., Zhang, D., and Karplus, V.J. (2015). Consumption-Based Adjustment of Emissions-Intensity Targets: An Economic Analysis for China's Provinces. *Environmental and Resource Economics*, 61(4), 615-640.
- Cao, J. and Karplus, V.J. (2014). Firm-Level Determinants of Energy and Carbon Intensity in China. *Energy Policy*, 75, 167-178.
- \*\*Zhang, D., Karplus, V.J., Cassisa, C., & Zhang, X. (2014). Emissions Trading in China: Progress and Prospects. *Energy Policy*, 75, 9-16.
- \*\*Qi, T., Winchester, N., Karplus, V.J., and Zhang, X. (2014). Will Economic Restructuring in China Reduce Trade-embodied CO<sub>2</sub> Emissions? *Energy Economics*, 42, 204-212.
- \*\*Qi, T., Zhang, X., and Karplus, V.J. (2014). The Energy and CO<sub>2</sub> Emissions Impact of Renewable Energy Development in China. *Energy Policy*, 68, 60-69.
- Nam, K.-M., Waugh, C.J., Paltsev, S., Reilly, J.M. and Karplus, V.J., (2014). Synergy between Pollution and Carbon Emissions Control: Comparing China and the U.S. *Energy Economics*, 46, 186-201.
- Rausch, S. & Karplus, V.J. (2014). Markets vs. Regulation: The Efficiency and Distributional Impacts of U.S. Climate Policy Proposals. *Energy Journal*, 35(S11), 199-227.
- Karplus, V.J., Paltsev, S., Babiker, M., & Reilly, J.M. (2013). Should a Vehicle Fuel Economy Standard be Combined with an Economy-wide Greenhouse Gas Emissions Constraint? Implications for Energy and Climate Policy in the United States. *Energy Economics*. 36, 322-333.
- Karplus, V.J., Paltsev, S., Babiker, M., & Reilly, J.M. (2013). Applying Engineering and Fleet Detail to Represent Passenger Vehicle Transport in a Computable General Equilibrium Model. *Economic Modelling*. 30, 295-305.
- Nam, K.-M., Waugh, C., Paltsev, S., Reilly, J., & Karplus, V.J. (2013). Carbon Co-benefits of Tighter SO<sub>2</sub> and NO<sub>x</sub> Regulations in China. *Global Environmental Change*, 23(6), 1648-1661.
- \*\*Zhang, D., Rausch, S., Zhang, X., & Karplus, V.J. (2013). Quantifying Regional Economic Impacts of CO<sub>2</sub> Intensity Targets in China. *Energy Economics*, 40, 687-701.
- Karplus, V.J. and Paltsev, S. (2012). Proposed Vehicle Fuel Economy Standards in the United States for 2017 to 2025: Impacts on the Economy, Energy, and Greenhouse Gas Emissions. *Transportation Research Record*, 2287, 132-139. (Winner of the Pyke Johnson Best Paper Award.)

- Paltsev, S., Morris, J., Cai, Y., Karplus, V.J., & Jacoby, H. (2012). The Role of China in Mitigating Climate Change. *Energy Economics*, 34(S3), S444-S450.
- Karplus, V.J., Paltsev, S., & Reilly, J. M. (2010). Prospects for Plug-in Hybrid Electric Vehicles in the United States and Japan: A General Equilibrium Analysis. *Transportation Research Part A*. 44(8), 620-641.
- Sandoval, R., Karplus, V.J., Paltsev, S., & Reilly, J. M. (2009). Modeling Prospects for Hydrogen Powered Transportation Through 2100. *Journal of Transport Economics and Policy*. 43(3), 291-316.
- Chen, H., Karplus, V.J., Ma, H., & Deng, X.W. (2006). Plant biology research comes of age in China. *The Plant Cell*, 18(11), 2855-2864.

## SELECTED BOOKS, CHAPTERS, & OTHER PUBLICATIONS

- Jotzo, F., Karplus, V.J., Grubb, M., Löschel, A., Neuhoff, K., Wu, L., & Teng, F. (2018). China's emissions trading takes steps towards big ambitions. *Nature Climate Change*, 8(4), 265–267.
- Karplus, V.J. (2018). Institutions and Emissions Trading in China. *American Economic Review: Papers and Proceedings*.
- Karplus, V.J., Lessard, D.R., Rajpurkar, N., and Singh, A. (2017). Institutional enablers of energy system transition: Lessons from solar PV in eight African countries. Book chapter for *Achieving Collective Ends with Limited Resources: Africa's Struggle to Bridge the Infrastructure Gap*.
- \*Jenkins, J. and Karplus, V.J. (2017). Carbon Pricing under Political Constraints: Insights for Accelerating Clean Energy Transitions. In *The Political Economy of Clean Energy Transitions*. Chapter 3. Oxford University Press.
- \*\*Davidson, M., Karhl, F., and Karplus, V.J. (2017). Towards a Political Economy Framework for Wind Power Does China Break the Mould? In *The Political Economy of Clean Energy Transitions*. Chapter 13. Oxford University Press.
- Karplus, V.J. and Zhang, X.L. (2016). 空气污染和气候变化的双控策略 (Coordinated Policy Strategies for Air Pollution and Climate Change, in Chinese), Annual Review of Low Carbon Development in China (Chapter 10).
- Karplus, V.J. (2015). Double Impact: Why China Needs Coordinated Air Quality and Climate Strategies (in English and Chinese). Energy and Environmental Paper Series. Chicago, IL: Paulson Institute.
- Karplus, V.J. (2013, July 26). Policy: Carbon emissions in China's trade. *Nature Climate Change*, 3, 703–704.
- Karplus, V.J. (2014). China. In Castle, D., Phillips, P., and Smith, S., *Handbook on Agriculture, Biotechnology, and Development*, Chapter 4. Edward Elgar.
- Karplus, V.J. (2012, Feb. 22). The case for a higher gasoline tax. *New York Times*, A23. [LINK](#)
- Heywood, J.B. and Karplus, V.J. (2009, Aug. 22). Electric vehicles aren't the solution—yet (Editorial). *The Boston Globe*, A9.
- Karplus, V.J. and Deng, X.W. (2008). *Agricultural Biotechnology in China: Origins and Prospects*, New York, NY: Springer.
- Karplus, V.J. (2005, April 1). HIV/AIDS in China: Bewertung des Problems/mögliche deutscher Beitrag zur HIV/AIDS Bekämpfung. (In German) Report for the State Minister for Europe and State Minister for External Affairs of the German Federal Foreign Office, Berlin, Germany.

## **INVITED PRESENTATIONS (SINCE 2014)**

### **2018**

Presenter. Allied Social Sciences Association Annual Meeting, Philadelphia, PA, January 5, 2018.

Title: Institutions and Emissions Trading in China

Presenter. Deep Decarbonization Initiative (D2I) Seminar Series, Laboratory for International Lab and Regulation and University of California San Diego, La Jolla, California. February 28, 2018.

Title: Air Quality Co-benefits of Energy Policies: Evidence from Industrial Firms in China

Keynote Speaker. Mannheim Energy Conference. Center for European Economic Research, Mannheim, Germany.

Title: Frontiers and Challenges in the International Expansion of Emissions Trading Systems

Presenter. Big Data, Digitization, and Environmental Governance in China, Hannover, Germany

Title: Effect of Citizen Scrutiny on Polluter Behavior in China

Presenter. Alliance for Research on Corporate Sustainability Tenth Annual Research Conference, MIT Sloan School of Management, Cambridge, MA.

Title: Did scrubbing the government clean up the air? Polluter responses to China's anticorruption campaign

Presenter. 22<sup>nd</sup> Annual Conference Society of Institutional and Organizational Economics, Montreal, Canada.

Title: State Accountability, Decision Horizon, and Managerial Practices in Chinese Firms

Presenter. World Congress of Environmental and Resource Economists, Gothenburg, Sweden, June 29, 2018.

Title: Herding Cats: Understanding Firm Non-Compliance in China's Industrial Energy Efficiency Program (with X. Shen, and D. Zhang)

Presenter. NBER Energy and Environmental Economics, Cambridge, MA. July 23, 2018.

Title: Did scrubbing the government clean up the air? Polluter responses to China's anticorruption campaign

Discussant. American Political Science Association. Session: The Politics of Clean Energy Innovation, Boston, MA.

Presenter. Seminar at NYU Shanghai, Department of Economics, Shanghai, China, September 7, 2018.

Presenter. NBER Chinese Economy Working Group, Beijing, China. September 10, 2018.

Title: Did scrubbing the government clean up the air? Polluter responses to China's anticorruption campaign

Keynote Speaker. Beijing Energy Conference, Renmin University.

Title: Industrial Energy Efficiency Programs in China: Incentives and Impacts

Presenter. Seminar in Multinational Management, Wharton School University of Pennsylvania, October 22, 2018.

Presenter. Wharton-Penn Law Risk Regulation Seminar, October 30, 2018.

Title: Did scrubbing the government clean up the air? Polluter responses to China's anticorruption campaign

Organizational Economics Lunch, MIT Sloan School of Management, November 27, 2018.

Title: Did scrubbing the government clean up the air? Polluter responses to China's anticorruption campaign

### **2017**

Discussant. Workshop: "International Cooperation in East Asia to Address Climate Change," Harvard Project on Climate Agreements, Harvard Project on Climate Agreements, Harvard Center Shanghai, Shanghai, China, Sept. 27, 2017.

Presenter. Seminar in Environmental Economics and Policy, Harvard Kennedy School, Cambridge, MA, USA, October 25, 2017.

Title: Co-benefits of Energy and Environmental Policy: Evidence from Industrial Firms in China

Presenter. Workshop: "Market Mechanisms and the Paris Agreement," Harvard Project on Climate Agreements, Harvard Kennedy School, Cambridge, MA, USA, July 6, 2017.

Title: The Status of China's National Emissions Trading System

Panel Moderator. Panel: "Energy Access in Developing and Emerging Countries." International Association for Energy Economics Annual Meeting, Singapore, June 19, 2017.

Presenter. Alliance for Research on Corporate Sustainability, Ninth Annual Research Conference, Rotterdam School of Management, Rotterdam, The Netherlands, June 16, 2017.

Title: Management and Energy Efficiency in a Chinese Manufacturing Cluster

Presenter. Eleventh Conference on the Economics of Energy and Climate Change, Toulouse School of Economics, Toulouse, France, June 6, 2017.

Title: Incentivizing Firm Compliance with China's National Emissions Trading System

Presenter. Stanford Woods Institute Seminar, Stanford University, Stanford, CA, USA, May 23, 2017.

Title: Managing the Origins of Air Pollution and Climate Change in China's Industrial Firms

Presenter. Stanford Energy and Environmental Policy Analysis Center Lunch Seminar, Stanford, CA, USA, April 17, 2017.

Title: A Green Bargain? The Impact of an Energy Saving Program on Productivity Growth in China's Iron and Steel Industry.

Discussant. Panel: "Economic and Political Incentives of Local Cadres in China," Association for Asian Studies Annual Conference, Toronto, Canada, March 18, 2017.

Presenter. Seminar for Civil and Environmental Engineering Department, University of Washington, Seattle, WA, USA, April 10, 2017.

Title: Air Quality Co-benefits of Climate Policy in China

Presenter. Seminar at School of International and Public Affairs, Columbia University, New York, NY, USA, March 20, 2017.

Title: Air Quality Co-benefits of Climate Policy in China

Presenter. RFF/Stanford SEEPAC Workshop: "Design of China's National Emissions Trading System," Stanford University, Stanford, CA, USA, Jan. 12, 2017

Title: Incentivizing Firm Compliance with China's National Emissions Trading System

Presenter and Discussant. Panel: "Quantifying Causes and Consequences of Air Pollution in China." Allied Social Sciences Association Annual Meeting, Chicago, IL, USA, Jan. 8, 2017.

Title: Do Local Government-Industry Linkages Affect Air Quality? Evidence from Chinese Cities

## **2016**

Presenter. NCSC-Harvard Workshop: "Design, Implementation, and Operation of China's National ETS," Harvard Project on Climate Agreements, Beijing, China, Dec. 16, 2016.

Title: Emissions Trading in China: Potential Impacts and System Design Challenges

Presenter. Social Science and Technology Seminar, Stanford University, Stanford, CA, USA. Sept. 27, 2016.

Title: Management and Energy Efficiency in a Chinese Manufacturing Cluster.

Presenter. Energy Seminar, Stanford University, Stanford, CA, USA, March 7, 2016.

Title: Managing Energy and Climate Change in China: Connecting Micro Decisions with Macro Impacts

Presenter. STEP (Science, Technology and Environmental Policy) Seminar, Princeton University, Princeton, NJ, USA, April 16, 2016.

Title: Wind energy, grid operations, and China's low carbon energy transition

Moderator. Plenary Fireside Chat with Kandeh Yumkella, former United Nations Under-Secretary-General and the Special Representative of the Secretary-General for Sustainable Energy for All, MIT Energy Conference, Cambridge, MA, USA, March 5, 2016.

## **2015**

Presenter. ETH Zürich, Seminar in the Center for Energy Policy for Economics, Department of Management, Technology, and Economics, Zürich, Switzerland, Feb. 27, 2015.

Title: Ownership and Pollution Control in China's Cities

Panelist. Panel: "Entrepreneurship in Asia," Conference: Expansion beyond Asia: Global Horizons. Harvard Project for Asian and International Relations, Harvard University, Cambridge, MA, USA, Feb. 16, 2015

Presenter. Fifth Annual Strategy Symposium on Emerging Markets. Rice University, Jones Graduate School of Business, Houston, TX, USA, April 24, 2015.

Title: Air Pollution Management in Emerging Markets: Insights from Industrial Firms in China

Presenter. Emerging Markets Seminar, Northeastern University, D'Amore-McKim School of Business, Boston, MA, USA, April 29, 2015.

Title: Firm Incentives and Environmental Control: Evidence from Chinese Cities

Presenter. Annual Conference of the Association of Environmental and Resource Economists, San Diego, CA, USA, June 4, 2015.

Title: Environmental Regulatory Outcomes under Heterogeneous Firm Ownership

Presenter. Invited Seminar at the Center for Energy and Environmental Policy (CEEP), Chinese Academy of Sciences, Beijing, China, June 17, 2015.

Title: Environmental Regulatory Outcomes under Heterogeneous Firm Ownership

Presenter. European Association of Energy and Resource Economics Annual Meeting, Helsinki, Finland, June 26, 2015.

Title: Local and Global Implications of China's Climate Pledge

Presenter. Second Biennial Conference of China Development Studies, Shanghai Institute for National Economy, Shanghai Jiao Tong University, Shanghai, China, June 27, 2015.

Title: Firm Incentives and Environmental Control: Evidence from Chinese Cities

Presenter. Stanford University Energy Modeling Forum, Snowmass, CO, USA, July 21-22, 2015.

Title: Air Pollution Policy in Asia / BC from transportation: How much now, and future?

Panelist. Panel: "Prospects for a Low Carbon Transition in China," Conference: Meeting China's Climate Goals, Columbia University, New York, NY, USA, Sept. 22, 2015.

Panelist. Panel on "Local and Global Climate Action on the Path to Paris." Open Public Forum hosted by World Resources Institute and the *Christian Science Monitor*, Boston, MA. Sept. 14, 2015.

Presenter. Salon hosted by the MIT Club of France, France-Amériques Club, Paris, France, Dec. 4, 2015.

Title: Implications of Climate Policy in China for Energy and Air Quality

Presenter. Empirical Management Conference at Stanford University, Stanford, CA, USA, Dec. 11, 2015.

Title: Management in China

## **2014**

Presenter. Conference: China and Innovation: Past, Present, and Future, Bucknell University, April 4, 2014.

Title: Innovation in China's Energy Sector

Testimony to the U.S.-China Economic and Security Review Commission, "U.S.-China Clean Energy Cooperation," Washington, DC, April 25, 2014.

Presenter. Shanghai Forum, Shanghai, China, May 25, 2014.

Title: Ownership and Energy Management in China's Industrial Firms during the Eleventh Five-Year Plan

Presenter. China Energy Workshop, Peterson Institute and Carnegie Mellon University, Washington, DC, June 26-27, 2014.

Title: China, the West, and the Alternative Energy Innovation Challenge

Presenter. World Congress of Environmental and Resource Economists, Istanbul, Turkey, June 28 - July 2, 2014.

Title: Ownership and Energy Management in China's Industrial Firms

Presenter. U.S. Department of Energy, Energy Information Agency, Annual Conference, Panel on "Asian Energy Demand Outlook," Washington, DC, July 14-15, 2014.

Title: Drivers of Future Energy Demand in China

Presenter. Academy of Management Annual Conference, Philadelphia, PA, August 1-5, 2014.

Title: Ownership and Energy Management in China's Industrial Firms

Panelist. Latin America-China Conference, Panel on "A Deep Dive with MIT Sloan," Sao Paulo, Brazil, August 28-29, 2014.

Presenter. MIT Energy Initiative External Advisory Board, October 2, 2014.

Title: China's Energy System in Transition: Insights from the China Energy and Climate Project at MIT

Presenter. Carnegie Mellon CEIC / EPP / SETChange Seminar, Pittsburgh, PA, October 23-24, 2014.

Title: Incentives and Energy Saving Outcomes in China's Industrial Firms: Does ownership matter?

Panelist. China FAQs Network Meeting: "Prospects for peaking of China's CO<sub>2</sub> emissions," Moderator and Panelist, "China Energy Outlook," World Resources Institute, Washington, DC. November 6, 2014.

Presenter. Center for Economic and Environmental Policy Research. November 19, 2014.

Title: China's Energy System in Transition: Insights from the China Energy and Climate Project at MIT

## **FUNDRAISING**

MIT Energy Initiative Seed Grant (\$150,000)	2017
Tata Fellowship (Support for a graduate fellow plus \$25,000, Co-PI: Niven Winchester)	2016
Samuel Tak Lee Real Estate Entrepreneurship Laboratory Seed Grant (\$130,000)	2015
MITEI Curriculum Development Grant (\$199,261, Co-PI: Chris Warshaw)	2015
J-WAFS Seed Grant (\$200,000, Co-PI: Noelle Selin)	2015



Environmental Solutions Initiative Seed Grant (\$306,137, Co-PI: Noelle Selin)	2015
Eni (“New Business Models for Renewables in Sub-Saharan Africa,” \$125,000, Co-PI: Don Lessard)	2014
DOE EIA Cooperative Agreement (\$750,000 over 5 years)	2013
Energy Foundation (“Integrated Assessment of Emissions, Air Quality, Economic, and Health Impacts of Transport Policies in China,” sub-award, joint with Emory University, \$150,000 over 2 years)	2013
China Energy and Climate Project (Served as Director, \$2.5 million over 5 years, funded by a consortium including Eni, the French Development Agency, ICF International, and Shell)	2011

#### **EXTERNAL ROLES & EDITORIAL BOARDS**

**Managing Editor**, *Economics of Energy and Environmental Policy*, International Association of Energy Economics (Fall 2016 – present)

**Research Associate**, China Energy Group, Lawrence Berkeley National Laboratory (2014 – present)

**Member**, External Advisory Board, Center for Climate and Energy Decision-Making (CEDM), Carnegie Mellon University (2015 – present)

**Member**, International Experts Group, China National Renewable Energy Center (2015 – present)