

**Alex Marten, Associate Office Director in EPA's [National Center for Environmental Economics](#)**

**Research Interests:** General Equilibrium Analysis; Energy Economics; Climate Change Economics

**Biography:** Alex is Associate Director of the National Center for Environmental Economics and has been at the U.S. EPA since 2009. He has conducted extensive research into the general equilibrium effects of environmental policies, the economics of climate change, and decision making under uncertainty. Alex was recognized for his innovative research contributions with a [2015 Presidents Early Career Award for Scientists and Engineers \(PECASE\)](#). He has worked extensively on environmental policies related to stationary sources of air pollution and has served on U.S. delegations to the OECD and UN IPCC. Alex has also served as an Adjunct Professor at Georgetown University since 2015. Alex Marten has a PhD in economics from North Carolina State University (2009) and a BS in economics and political science from the University of Pittsburgh (2003).

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**Recent NCEE Working Papers:**

[“The Importance of Source-Side Effects for the Incidence of Single Sector Technology Mandates and Vintage Differentiated Regulation.”](#) NCEE Working Paper #2019-03.

[“An Applied General Equilibrium Model for the Analysis of Environmental Policy: SAGE v1.0 Technical Documentation.”](#) (with Richard Garbaccio), NCEE Working Paper #2018-05.

[“Economy-Wide Effects of Mortality Risk Reductions from Environmental Policies.”](#) (with Stephen Newbold), NCEE Working Paper #2017-03.

**Peer-Reviewed Publications:**

[“Exploring the General Equilibrium Costs of Sector-Specific Environmental Regulations.”](#) (with Richard Garbaccio and Ann Wolverton), Journal of the Association of Environmental and Resource Economists, 6(6), pp. 1065-1104, November 2019.

[“The Impacts of Environmental Regulation on the U.S. Economy”.](#) (with Ann Ferris, Richard Garbaccio, and Ann Wolverton), In Oxford Encyclopedia of Environmental Economics. Jim Kahn eds, 2017.

["Incremental CH<sub>4</sub> and N<sub>2</sub>O Mitigation Benefits Consistent with the US Government's SC-CO<sub>2</sub> Estimates."](#) (with Steve Newbold, Elizabeth Kopits, Charles Griffiths and Ann Wolverton), *Climate Policy*, 15(2), pp. 272-298, May 2014.

["The Role of Scenario Uncertainty in Estimating the Benefits of Carbon Mitigation,"](#) *Climate Change Economics*, 5(3), August 2014.

["Incorporating "Catastrophic" Climate Change into Policy Analysis,"](#) (with Elizabeth Kopits and Ann Wolverton), *Climate Policy*, 14(5) pp. 637-664, 2014.

["The Value of Information for Integrated Assessment Models of Climate Change,"](#) (with Steve Newbold), *Journal of Environmental Economics and Management*, 68, pp. 111-123, July 2014.

["Temporal Resolution and DICE"](#) (with Steve Newbold), *Nature Climate Change*, pp. 526-527, 2013.

["Improving the Assessment and Valuation of Climate Change Impacts for Policy and Regulatory Analysis,"](#) (with Robert Kopp, Kate Shouse, Charles Griffiths, Elke Hodson, Elizabeth Kopits, Bryan Mignone, Chris Moore, Steve Newbold, Stephanie Waldhoff and Ann Wolverton), *Climatic Change*, 117(3), pp. 433-438, April 2013.

["U.S. Emergency Response and Removal: Superfund's Overlooked Cleanup Program"](#) (with Robin Jenkins, Heather Klemick and Elizabeth Kopits). *Review of Environmental Economics and Policy*, 6(2), pp. 278-297, 2012.

"The Social Cost of Carbon: Valuing Carbon Reductions in Policy Analysis,." (with Charles Griffiths, Elizabeth Kopits, Steve Newbold, Chris Moore and Ann Wolverton), In [\*Fiscal Policy to Mitigate Climate Change: A Guide for Policymakers\*](#), I.W.H. Parry, R. de Mooij, and M. Keen, eds. International Monetary Fund, 2012.

["Estimating the Social Cost of non-CO<sub>2</sub> GHG Emissions: Methane and Nitrous Oxide,"](#) (with Steve Newbold), *Energy Policy*, 51, pp. 957-972, December 2012.

["Transient Temperature Response Modeling in IAMs: The Effects of Over Simplification on the SCC,"](#) Special Issue: The Social Cost of Carbon, *Economics*, No. 2011-18, October 11, 2011.

["An Options Based Bioeconomic Model for Biological and Chemical Control of Invasive Species,"](#) (with Chris Moore), *Ecological Economics*, 70(1), pp 2050-2061, September 2011.

#### **Select EPA Publications:**

[\*Handbook on Benefits, Costs, and Impacts of Land Cleanup and Reuse\*](#), (contributing authors include Heather Klemick, Elizabeth Kopits, Robin Jenkins, David Simpson and others), EPA 240-R-11-001, October 2011.

## **Honors and Awards:**

- 2017 EPA Science and Technology Achievement Awards, for “Filling an analytic gap in benefit-cost analysis of methane and nitrous oxide emission reductions” (with Alex Marten, Charles Griffiths, Steve Newbold, and Ann Wolverton). Level III Award.
- [2015, Presidents Early Career Award for Scientists and Engineers \(PECASE\)](#)
- [2012, Trudy A. Speciner Non-Supervisory Award for Advancing Environmental Protection](#)
- [2011, Southern Agricultural Economics Association Outstanding Doctoral Dissertation Award](#)