

Elizabeth (Liz) Mettetal, Ph.D.

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.

Cambridge, MA

Senior Consultant

Dr. Mettetal joined E3 in 2019. An experienced economist and project manager with expertise in environmental and energy economics, her work enables utilities and regulators to prepare for the clean energy transition. Prior to E3, Dr. Mettetal spent four years in energy and environmental consulting at Abt Associates and NERA Economic Consulting, where she conducted cost-benefit analyses for both fossil and nuclear electric power plants and for U.S. government agencies. She also brings significant experience performing economic impact modeling, including evaluating effects on employment, income, and gross regional product. In graduate school, Dr. Mettetal was a fellow in the Harvard Environmental Economics Program and served as the Head Teaching Fellow for Harvard's environmental economics course. She has also conducted research on the potential health externalities of agricultural water use and on incentives for environmental technology adoption. Dr. Mettetal holds a Ph.D. in Public Policy from Harvard University and a B.S. in Environmental Engineering Science, with a minor in Economics, from the Massachusetts Institute of Technology.

ABT ASSOCIATES

Cambridge, MA

Associate

September 2017 – June 2019

- Managed and performed economic analyses for federal agencies on topics related to energy, natural gas, water, waste, air quality, climate change, and transportation. Main clients included U.S. Environmental Protection Agency (EPA), U.S. Pipeline and Hazardous Safety Administration (PHMSA), and National Oceanographic and Atmospheric Administration (NOAA).
- Conducted regulatory impact analysis, cost-benefit analysis, economic impact assessments, uncertainty analysis, and applied econometric and statistical analysis. Analyses regularly withstood rigorous review and external evaluation by policy stakeholders.
- Senior economist on team that won company-wide Abt Technical Innovation Award (2018) for work building modeling tools that evaluate economic and environmental impacts of solid waste management strategies.

NERA ECONOMIC CONSULTING

Boston, MA

Consultant

April 2015 – August 2017

- Provided expert consulting services on the economics of environmental and energy policies related to air quality, water, climate change, and the electric grid.
- Managed and performed analysis evaluating the economic and environmental impacts of potential electricity resource alternatives for a major western utility's Integrated Resource Planning (IRP) process.

- Contributed to writing testimonies and expert reports submitted to the Court, public utility commissions, and other regulatory proceedings.

HARVARD UNIVERSITY

Teaching Assistant

Research Assistant

Cambridge, MA

February 2011 – May 2013

April 2010 – June 2014

- Head Teaching Fellow for undergraduate/masters-level Fundamentals of Environmental Economics and Policy for Professor Robert Stavins (Spring 2011-2013)
- Teaching Fellow for masters-level Advanced Microeconomics Analysis for Professor Chris Avery (Fall 2011)
- Research Assistant to Professor Robert Stavins, Professor Rohini Pande, and Professor Michael Kremer on projects related to environmental/energy economics and development economics

TECHNOSERVE

Consultant

Mozambique

June 2008 – May 2009

- Performed financial and strategic analyses to build sustainable businesses, increase economic growth, and reduce poverty.
- Main project involved researching interactions between human and environmental health in Nampula province, organizing workshop for key stakeholders to contribute and share insights, and providing integrated planning recommendations for NGOs, government, and investors.

MCKINSEY & COMPANY

Business Analyst

Washington, DC

September 2006 – June 2008

- Served private, public, and social sector clients on consulting projects related to organizational challenges and business opportunities.
- Selected projects include creating a growth strategy for a city development organization; quantitative analysis of potential gains from improvements in claims processing for a major health insurance company; and evaluating and redesigning the incentive structure for call center agents at a financial services company.

Education

Harvard University

Ph.D., Public Policy

Cambridge, MA

2015

Massachusetts Institute of Technology

B.S., Environmental Engineering Science

Cambridge, MA

2006

Selected Publications and Reports

1. Mettetal, E. "Irrigation Dams, Water, and Infant Mortality: Evidence from South Africa." *Journal of Development Economics*. May 2019.
2. Oliva, P. Jack, K., Bell, S., Mettetal, E., and C. Severen. "Technology Adoption Under Uncertainty: Take-Up and Subsequent Investment in Zambia" Forthcoming in *Review of Economics and Statistics*. 2019.
3. Mettetal, E., Donahue, J., Graff, M., Enriquez, S. Sala, R. and T. Frankiewicz. *Evaluation of the Potential Climate Benefits from Naucalpan's Proposed Anaerobic Digester Project*. Abt Associates and U.S. EPA Report prepared for City of Naucalpan, Mexico. July 2018.
4. Harrison, D., Mettetal, E., Hogan, D., and E. Shakun. *Methodology for Evaluating the Macroeconomic Impacts of Energy Efficiency Programs using REMI*. NERA Report prepared for confidential client. August 2017.
5. Harrison, D., Mettetal, E., Hogan, D., Ledvina, K., and E. Shakun. *Environmental Costs and Economic Impacts of 100 MW Generic Technology/Resource Options*. NERA Report prepared for Sierra Pacific Power Company/NV Energy. September 2016.
6. Harrison, D., Walker (Mettetal), E., Fishbein, R., Hitchins, N., Levina, K., and P. White. *Environmental Costs and Economic Impacts of the 2016 Integrated Resource Plan*. NERA Report prepared for Sierra Pacific Power Company/NV Energy, Inc. June 2016.
7. Harrison, D., Walker (Mettetal), E., Franco, N., Hitchins, N., McPherson, C. and A. Stuntz. *Environmental Costs and Economic Impacts of the 2015 Integrated Resource Plan*. NERA Report prepared for Nevada Power Company/NV Energy, Inc. June 2015.
8. Harrison, D., Meehan, G., Walker (Mettetal), E., Coughlin, C., Franco, N., McPherson, C., and A. Stuntz. *Economic Analyses of Permanent Mandatory Summertime Outages at Indian Point Energy Center (IPEC)*. NERA Report prepared for Entergy Nuclear Indian Point 2 and 3, LLC. June 2015.
9. Pande, R., Ryan, N., Sudarshan, A., and E. Walker (Mettetal). "Industrial Pollution, Regulation and Growth: Governance Challenges and Innovations – Background Paper for the 2012 San Servolo Workshop on Grand Challenges of Sustainability." *Sustainability Science Program Working Paper No. 2012-01*. Sustainability Science Program, Kennedy School, Harvard University. May 2012.
10. Null, C., Miguel, T., Kremer, M. Lantagne, D. and E. Walker (Mettetal). "Effects of Exceeding Recommended Storage Time of Hypochlorite-Treated Water in Ceramic Pots." *Proceedings of the Water Environment Foundation*. 2011.

Citizenship

United States