

## **Professional Experience**

**Executive Director, American Council for an Energy-Efficient Economy, 2001–present**

**Deputy Director, 1993–2000**

**Senior Associate, 1989–1992**

Manages entire organization. Supervises senior directors. Manages fundraising. Works with board of directors. Leads or assists on numerous research projects, resulting in over 200 published papers. Directed Buildings Program and Utilities Program for many years; worked on appliance and equipment efficiency standards, building codes, market transformation programs, utility programs and policies; continues to play active role in these areas. Led successful efforts to incorporate efficiency standards on more than 30 products into federal energy legislation enacted in 1992, 2005, and 2007. Played leading role in initiating market transformation programs promoting high-efficiency appliances and equipment. Led groundbreaking studies on utility demand-side management programs and their achievable potential. Authored multiple papers on the rebound effect, carbon pricing and electrification. Helped implement energy savings targets and public benefit programs and policies in several states. Led projects to promote energy efficiency in developing countries including China, India and Thailand.

**Senior Analyst, New England Power Service Company (now National Grid USA), 1988–1989**

**Analyst, 1987–1988**

Planned and evaluated energy conservation programs for major electric utility. Responsible for program evaluation including energy savings, cost-benefit, process evaluations. Conducted market research including mail and phone surveys, focus groups, market data analysis.

**Staff Energy Scientist and Energy Priority Coordinator, Massachusetts Audubon Society, 1983–1987**

Coordinated energy programs. Coordinated planning for Energy Transition Priority, one of the Society's three major priorities. Directed research projects including monitoring performance of innovative solar energy systems and evaluation of fuel savings achieved by statewide low-income Weatherization Assistance Program. Directed technical training for local programs. Prepared educational materials including a series of consumer handbooks. Led successful effort to adopt appliance efficiency standards in Massachusetts.

**Independent Consultant, 1982–1983**

Evaluated Hartford, CT Heating Plant Efficiency Loan Program for improving heating systems in multifamily housing.

**Energy Coordinator, Home Maintenance Corporation, 1979–1981**

Responsible for energy conservation, alternative energy, energy planning, energy instruction programs for nonprofit community group in the Upper Hill, New Haven's poorest neighborhood. Developed one-stop-shop energy conservation program. Set up energy audit and financial counseling procedures; trained and supervised counselors.

## **Professional Activities**

Mary Kilmarx Award for outstanding service, Committee on Energy Resources and the Environment, National Association of Regulatory Utility Commissioners, 2014

Energy Efficiency Hall of Fame, Johnson Controls and US Energy Association, 2014  
Public Service Award, Air-Conditioning, Heating and Refrigeration Institute, 2011  
Member, Board of Directors and Treasurer, Northeast Energy Efficiency Partnerships, 1996–present  
Member, Board of Directors and former Treasurer, New Buildings Institute, 1997–present  
Member, ASHRAE SSSC 90.1 (which develops model commercial building code), 1990–1999

## Education

MS, Energy Management, New York Institute of Technology, 1985  
MALS, Environmental Studies, Wesleyan University, 1980  
BA, Government, Wesleyan University, 1979

## Selected Publications

- S. Nadel. 2019. “Electrification in the Transportation, Buildings and Industrial Sectors: A Review of Opportunities, Barriers and Policies.” *Current Sustainable/Renewable Energy Reports* (in press).
- S. Nadel and L. Ungar. 2019. *Halfway There: Energy Efficiency Can Cut Energy Use and Greenhouse Gas Emissions in Half by 2050*. Washington, DC: ACEEE. [aceee.org/halfway-there](http://aceee.org/halfway-there) .
- S. Nadel. 2019. “Focusing and Improving Traditional Energy Efficiency Strategies. *Electricity Journal*. Sept. [aceee.org/journal-article/focusing-ee-strategies](http://aceee.org/journal-article/focusing-ee-strategies) .
- S. Nadel and C. Kubes. 2019. *State and Provincial Efforts to Put a Price on Greenhouse Gas Emissions, with Implications for Energy Efficiency*. Washington, DC: ACEEE. [aceee.org/white-paper/carbon-tax-010319](http://aceee.org/white-paper/carbon-tax-010319) .
- S. Nadel. 2016. “Learning from 19 Carbon Taxes: What Does the Evidence Show?” Proceedings 2016 Summer Study on Energy Efficiency in Buildings. [aceee.org/files/proceedings/2016/data/papers/9\\_49.pdf](http://aceee.org/files/proceedings/2016/data/papers/9_49.pdf) .
- S. Nadel. 2016. “The Potential for Additional Energy Efficiency Savings Including How the Rebound Effect Could Affect This Potential.” *Current Sustainable/Renewable Energy Reports*. 3:35-41. [link.springer.com/article/10.1007/s40518-016-0044-2](http://link.springer.com/article/10.1007/s40518-016-0044-2) .
- S. Nadel, R. N. Elliott, and T. Langer. 2015. *Energy Efficiency in the United States: 35 Years and Counting*. Washington, DC: ACEEE. [aceee.org/research-report/e1502](http://aceee.org/research-report/e1502).
- D. York, S. Nadel, E. Rogers, R. Cluett, S. Kwatra, H. Sachs, J. Amann, and M. Kelly. 2015. *New Horizons for Energy Efficiency: Major Opportunities to Reach Higher Electricity Savings by 2030*. Washington, DC: ACEEE. [aceee.org/research-report/u1507](http://aceee.org/research-report/u1507).
- S. Nadel and R. Young. 2014. “Why is Electricity Use No Longer Growing?” *Public Utilities Fortnightly*, September. [www.fortnightly.com/fortnightly/2014/09/why-electricity-use-no-longer-growing](http://www.fortnightly.com/fortnightly/2014/09/why-electricity-use-no-longer-growing).
- S. Nadel. 2013. “Utility Energy Efficiency Programs: Lessons from the Past, Opportunities for the Future.” In F. Sioshansi, ed., *Energy Efficiency: Towards the End of Demand Growth* 51–86. Waltham, MA: Academic Press.

S. Nadel and K. Farley. 2013. *Tax Reforms to Advance Energy Efficiency*. Washington, DC: ACEEE. [aceee.org/research-report/e132](http://aceee.org/research-report/e132).

S. Vaidyanathan, S. Nadel, J. Amann, C. Bell, A. Chittum, K. Farley, S. Hayes, M. Vigen, and R. Young. 2013. *Overcoming Market Barriers and Using Market Forces to Advance Energy Efficiency*. Washington, DC: ACEEE. [aceee.org/research-report/e136](http://aceee.org/research-report/e136).

S. Nadel. 2012. *The Rebound Effect: Large or Small?* Washington, DC: ACEEE. [aceee.org/white-paper/rebound-effect-large-or-small](http://aceee.org/white-paper/rebound-effect-large-or-small).

S. Nadel and R. Gold. 2010. "Utility DSM: Off the Coasts and into the Heartland." *The Electricity Journal* 23(8): 51–62. [www.sciencedirect.com/science/article/pii/S1040619010002277](http://www.sciencedirect.com/science/article/pii/S1040619010002277).

S. Nadel, J. Amann, H. Sachs, B. Prindle, and R. N. Elliott. 2003. *Market Transformation: Substantial Progress from a Decade of Work*. Washington, DC: ACEEE. [aceee.org/research-report/a036](http://aceee.org/research-report/a036).

S. Nadel, R. N. Elliott, M. Shepard, S. Greenberg, G. Katz, and A. de Almeida. 2002. *Energy-Efficient Motor Systems: A Handbook on Technology, Program, and Policy Opportunities*. Washington, DC: ACEEE. [aceee.org/ebook/energy-efficient-motor-systems](http://aceee.org/ebook/energy-efficient-motor-systems).