

STEVEN NADEL

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Citizenship: United States

DOB: Jan. 13, 1957

EXPERIENCE

American Council for an Energy-Efficient Economy, Washington, D.C., 1989 - present. Executive Director (2001-present), Deputy Director (1993-2000), Senior Associate (1989-1992). Manage a non-profit research organization devoted to promoting energy efficiency through research and advocacy. Directed the Buildings/Equipment and Utilities programs for many years. Major activities include:

- Responsible for overall management of the organization including supervising program directors, fund-raising, overseeing administrative systems, and working with the Board of Directors.
- Directed Buildings and Equipment Program for many years including work on appliance and equipment efficiency standards, building codes, and market transformation programs. Led successful effort to incorporate lamp, motor and HVAC standards and luminaire and office equipment labeling in the federal Energy Policy Act of 1992. Led successful efforts to adopt additional efficiency standards on 16 products and to adopt energy efficiency tax incentives in the Energy Policy Act of 2005. Played a similar role with 10 products incorporated into the Energy Independence and Security Act of 2007. Played a leading role in initiating market transformation programs promoting high-efficiency refrigerators, clothes washers, residential and commercial air conditioners, and commercial packaged refrigeration systems. Continue to play a major role on U.S. efficiency standards and market transformation programs.
- Directed Utilities Program for many years and continue to play active role. Led path-breaking studies on lessons learned from utility DSM programs (including residential and commercial lighting programs) and on the achievable potential from these programs. Currently active in the development and implementation of energy savings targets at both the state and national levels, improving the business case for utility investments in energy efficiency, and helping to develop next generation utility efficiency programs.
- Supervise Industry Program and led or assisted in numerous studies. Co-authored a book for program and policy planners on *Energy-Efficient Motor Systems*.
- Lead and assist with projects to promote energy efficiency in developing countries including work in China, Thailand, India, and Egypt. Spent a year in China working on projects to promote utility integrated resource planning (IRP) and demand-side management (DSM) and to improve the efficiency of refrigerators, air conditioners, motors and lighting equipment in China. Co-wrote manual on IRP/DSM for Chinese utilities. Led development of Project Brief and Project Document for an \$8 million GEF grant for the China Green Lights program, participated in project implementation. Led development of a \$1.5 million UNIDO/UN Foundation project to improve optimization of motor systems in Shanghai and Jiangsu province. Coordinated evaluation of this project. Assisted China National Institute of

Standardization to develop priorities for new efficiency standards and labels and assisted them to develop new motor, pump and commercial refrigeration standards. With Chinese colleagues, conducted studies on implementation of appliance and lighting standards in China. Technical lead on project assisting Thai government to develop minimum efficiency standards, labels and incentives for eight products. Led study for World Bank to estimate the energy efficiency potential in India. Assisted the Andra Pradesh State Electricity Board to develop and model a suite of energy-efficiency programs. Taught workshop for Indian utilities, regulators and evaluators on utility role in energy efficiency.

- Led or assisted on numerous research projects, leading to many published papers and reports.

New England Power Service Company, Westborough, MA, 1987-89.

Senior Analyst (1988-89). Analyst (1987-88).

Planned and evaluated energy conservation programs for a major electric utility. Supervised research assistants and consultants.

- Responsible for program evaluation and market research for the Company's commercial and industrial (C&I) lighting programs, new construction programs, stand-by generation program, large C&I shared savings program and residential water heater rebate program. Evaluation work included energy savings, cost-benefit and process evaluations. Market research included mail and phone surveys, focus groups and market data analysis.
- Coordinated a collaborative planning process on commercial and industrial programs involving Company employees, the Conservation Law Foundation, and other interested outside parties.

University of Massachusetts at Boston, 1988-89.

Adjunct Professor.

Taught undergraduate course entitled "Energy Trends".

Massachusetts Audubon Society, Lincoln, MA, 1983-87.

Staff Energy Scientist and Energy Priority Coordinator.

Responsible for coordinating energy programs for a statewide environmental organization.

- Coordinated planning for the Energy Transition Priority, one of the Society's three major priorities for the 1980's.
- Directed research projects including projects to: evaluate the fuel savings achieved by the statewide low income Weatherization Assistance Program; estimate the costs and benefits of appliance efficiency standards in Massachusetts; and monitor the performance of innovative solar energy systems.
- Prepared educational materials including a widely distributed series of consumer handbooks. Provided technical training on energy conservation and solar energy issues to community groups. Directed technical training for regional operators of a statewide, residential, energy conservation loan program.
- Participated in public policy forums. Testified on energy issues before the Massachusetts legislature and state regulatory bodies. Member of official state boards dealing with the

energy sections of the Massachusetts building code, the Residential Conservation Service, and urea-formaldehyde foam insulation.

- Wrote and administered grants.

Independent Consultant, New Haven, CT, 1982-1983.

Responsible for coordinating projects for several clients with an emphasis on energy conservation in multi-family housing.

- Evaluated the Hartford Heating Plant Efficiency Loan Program -- a program for improving heating systems in multifamily housing.
- Coordinated and authored an analysis on the impact of energy prices on housing abandonment and condominium conversion in Hartford, CT.

Wesleyan University, Middletown, CT, 1982.

Teaching Associate.

Taught undergraduate course entitled "Energy Policy: Conflicting Values, Difficult Choices."

Home Maintenance Corporation, New Haven, CT, 1979-1981.

Energy Coordinator.

Responsible for energy conservation, alternative energy, energy planning and energy instruction programs for a non-profit community group working in the Upper Hill, New Haven's poorest neighborhood.

- Developed a "one stop shop" energy conservation program. Set up energy audit and financial counseling procedures, and trained and supervised workers in them.
- Helped develop and implement procedures for integrating energy conservation work into the organization's housing rehabilitation activities.

Congressman Morris Udall, Washington, D.C. Summer, 1975.

Intern.

Researched and wrote on land use issues.

EDUCATION

M.S. in Energy Management, New York Institute of Technology, Dec., 1985. Program combined engineering, energy management and business administration classes. Thesis on low income weatherization programs.

M.A. in Environmental Studies, Wesleyan University, Jan., 1980. Thesis on energy use, conservation and supply in urban areas.

B.A. in Government, magna cum laude, Wesleyan University, May, 1979.

Energy Engineering, Rensselaer Polytechnic Institute. Graduate course work in energy conversion systems, thermodynamics and heating, ventilating and air conditioning analysis.

PROFESSIONAL AFFILIATIONS

American Society of Heating, Refrigeration and Air Conditioning Engineers - member of SSPC 90.1 for many years (Energy-Efficient Design of New Commercial Buildings).

Northeast Energy Efficiency Partnerships - member Board of Directors, Finance and Program Committees.

New Buildings Institute - member Board of Directors

Top Ten USA – member Board of Directors

Gas Technology Institute – member of Public Interest Advisory Committee.

Institute for Electric Efficiency – member of Advisory Board.

Electric Power Research Institute – member of Energy Efficiency Advisory Board.

PUBLICATIONS

More than 200 publications on topics related to energy policy, utility energy efficiency programs and policies, appliance and equipment standards, market transformation and a variety of other topics. Publications list available upon request.