

PAUL N. LEIBY

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Summary of Qualifications

Over 20 years of experience conducting and leading research projects on the economic analysis of resource and energy policy, including renewable energy resources.

Work History and Accomplishments

- 1987 to present** **Oak Ridge National Laboratory, Oak Ridge, TN**
Senior Research Staff, Environmental Science Division
- Conducted and led multiple research projects on the economic analysis of resource and energy policy.
- 1979–1987** **Energy and Environmental Policy Center, Harvard University**
- Research Coordinator, International Energy Study, 1986–1987.
 - Research Fellow in Oil and Gas Policy, 1985–1986. Examined U.S. Strategic Petroleum Reserve policy in context of oil market risk and uncertainty.
 - Research Assistant (part- and full-time, 1981–1985). Member of Synthetic Fuels Study Group. Studied solar energy policy and natural gas curtailment (1979–1981).
 - Focus on quantitative energy analysis and modeling.
- 1982–1987** **Kennedy School of Government**
Teacher
- Teaching Fellow, "Analysis of Energy, Environmental, and Natural Resource Policy," conducting 1/3 of lectures (1987).
 - Head Teaching Fellow, "Analytic Methods" (1982).
 - Teaching Fellow, "Optimization Models for Policy Analysis" (1982).

Education and Training

- Ph.D. candidate (ABD), Public Policy, Harvard University (dissertation topic: Energy Security Policies and World Oil Market Risk)
- Advanced course work in operations research, MIT
- M.A., Public Policy, Kennedy School of Government, 1981 (specialization: modeling energy and environmental policy)
- A.B., Science and International Affairs, Harvard College, 1979, Magna Cum Laude, with Highest Honors in Science and International Affairs (honors thesis: Nuclear Fuel Reprocessing Initiatives)

Representative Publications

- Flexible Greenhouse Gas Emission Banking Systems*, principal Investigators Jonathan Rubin (Margaret Chase Smith Center for Public Policy, University of Maine) and Paul Leiby, Draft Final Technical Report, Integrated Assessment of Global Climate Change Research Program, Notice 98-15, March 31, 2001 (Report to DOE Office of Science).
- "Effectiveness and Efficiency of Policies to Promote Alternative Fuel Vehicles," Paul Leiby and Jonathan Rubin, *Transportation Research Record* 1750: 84-91 (2001).
- "Intertemporal Permit Trade for the Control of Greenhouse Gas Emissions," Paul Leiby and Jonathan Rubin, *Environmental and Resource Economics* 19(3): 229–256 (2001).
- "An Analysis of Alternative Fuel Credit Provisions of US Automotive Fuel Economy Standards," Jonathan Rubin and Paul Leiby, *Energy Policy* 28(9): 589–602 (2000).
- The Value of Expanding the U.S. Strategic Petroleum Reserve*, Paul N. Leiby and David Bowman, ORNL/TM-2000/179, Oak Ridge National Laboratory, January 2000.
- The Value of Expanding Asian Pacific Strategic Oil Stocks*, Paul N. Leiby and David Bowman, ORNL/TM-1999/39, Oak Ridge National Laboratory, January 2000.
- Emergency Oil Stocks and Energy Security in the APEC Region*, Asia Pacific Energy Research Centre, K. Yokobori et al., Tokyo, March 2000.

The Alternative Fuel Transition: Results from the TAFV Model of Alternative Fuel Use in Light-Duty Vehicles, 1996-2010, Paul Leiby, ORNL/TM-2000/168, Final Report–TAFV Version 1, May 2000.

"Sustainable Transportation: Analyzing the Transition to Alternative Fuel Vehicles," Paul Leiby and Jonathan Rubin, *Transportation Research Board Circular*., *Transportation, Energy, and Environment*, No. 492, August 1999.

"Ohio River Navigation Investment Model Requirements and Model Design," Michael S. Bronzini, T. Randall Curlee, Paul N. Leiby, Frank Southworth, and Michael S. Summers, *Transportation Research Record* 1620: 17-26 (1998).

"The Outlook for Oil Dependence," David L. Greene, Donald W. Jones, and Paul N. Leiby, *Energy Policy* 26(1): 55-60 (1998).

The Findings of the DOE Workshop on Economic Vulnerability to Oil Price Shocks: Summary and Integration with Previous Knowledge, Donald W. Jones, David J. Bjornstad, and Paul N. Leiby, 2nd draft, Oak Ridge National Laboratory, September 5, 1997.

"Forest/Biomass Based Mitigation Strategies: Does the Timing of Carbon Reductions Matter?" Gregg Marland, Bernhard Schlamadinger, and Paul Leiby, *Critical Reviews in Environmental Science and Technology* 27(Special Issue): S213-226 (1997).

"The Transitional Alternative Fuels and Vehicles Model," Paul Leiby and Jonathan Rubin, *Transportation Research Record* 1587: 10–18 (1997).

Other Pertinent Information

- Member of the Alternative Fuels Committee in the Transportation Research Board of the National Research Council
- Reviewed papers for the *Journal of Environmental Economics and Management*, *Operations Research Applications*, *Science*, the *Energy Journal*, and the *European Journal of Operations Research*
- Recipient, Crump Fellowship for Oil and Gas Studies (1985–1986)
- Recipient, Sheldon Scholarship for graduate studies (1983 and 1984 academic years)
- Graduated magna cum Laude, Harvard College, with Highest Honors in area of concentration (1979)
- Recipient, Bausch and Lomb Medal for Science Studies (1973)

Certification of Accuracy

This resumé has been certified for accuracy by Paul N. Leiby on February 21, 2002, and by T. Randall Curlee, Leader, Science and Technology Policy Group, Environmental Sciences Division, on February 21, 2002.