

PAUL N. LEIBY

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Professional Experience

1987 to present Distinguished Research Scientist, Oak Ridge National Laboratory, Environmental Science Div., Oak Ridge, TN.
Team Leader: Energy Analysis

1979 to 1987 Energy & Env. Policy Center, Harvard Univ. Research Coordinator, International Energy Study, Research Fellow Oil & Gas Policy

Education

Harvard Graduate School of Arts and Sciences, (ABD) in Public Policy.
Kennedy School of Government, Harvard University, 1981, Master's Degree in Public Policy.
Harvard College 1979, AB Magna Cum Laude, Highest Honors in Science & Intern'l Affairs.

Selected Publications

Uría-Martínez, R., **Leiby, P.N.**, and Brown, M.L. (2018). "Energy Security Role of Biofuels in Evolving Liquid Fuel Markets." *Biofuel, Bioproducts and Biorefining*. <https://doi.org/10.1002/bbb.1891>

Uría-Martínez, R., **Leiby, P.N.**, and Brown, M.L. (2018). "Cost of oil and biomass supply shocks under different biofuel supply chain configurations." *Transportation Research Record*.

Oladosu, G., **Leiby, P.**, Bowman, D.C., Uría-Martínez, R., and Johnson, M.M. (2018). "Impacts of oil price shocks on the U.S. economy: a meta-analysis of oil price elasticity of GDP for net oil-importing economies." *Energy Policy* 115:523-544.

Wadud, Zia, Donald MacKenzie and **Paul Leiby** 2016. "Help or hindrance? Travel, energy and carbon impacts of highly automated vehicles," *Transp. Res. A*. 86:1-18.

Rubin, JD, **PN Leiby**, M. Brown, "Regional Credit Trading: Economic and GHG Impacts of a National Low Carbon Fuel Standard," *Transp. Res. Rec: J. of TRB* 2454:28-35 (2014).

Rubin, J.D. and **P.N. Leiby**. 2013. "Tradable Credits System Design And Cost Savings For A National Low Carbon Fuel Standard For Road Transport," *Energy Policy*, 56:16-28.

Leiby, P.N., and J. Rubin, 2013. Energy Security Implications of a National Low Carbon Fuel Standard," *Energy Policy*, 56:29-40, May.

Dale VH, RA Efrogymson, KL Kline, MH Langholtz, **PN Leiby**, GA Oladosu, MR Davis, ME Downing, MR Hilliard. 2013. Indicators for assessing socioeconomic sustainability of bioenergy systems. *Ecological Indicators* 26:87-102.

Oladosu G. K. Kline, **P. Leiby**, R. Uria-Martinez, M. Davis, V. Dale, M. Downing, L. Eaton, "Global Economic Effects of US Biofuel Policy", *Future Science – Biofuels Journal* 3(6)

Jonathan Rubin, **Paul N. Leiby** and David L. Greene 2009. "Tradable Fuel Economy Credits: Competition and Oligopoly," *J. of Env Econ & Man*, 58 (2009) 315–328.

Kline, K, VH Dale, R Lee, & **P Leiby**. 2009. Biofuels, Done Right. *Issues in Sci Tech* 25(3).

Leiby, Paul N. 2008. *Estimating the Energy Security Benefits of Reduced U.S. Oil Imports*, Final Report, ORNL/TM-2007/028, Oak Ridge National Laboratory, Rev. March 14.

Greene, D.L., **P.N. Leiby**, B. James, J. Perez, M. Melendez, A. Milbrandt, S. Unnasch, M Hooks; ed. by S. McQueen, directed by S. Gronich. 2008. *Analysis of the Transition to Hydrogen Fuel Cell Vehicles & the Potential Hydrogen Energy Infrastructure Requirements*, ORNL/TM-2008/30, Oak Ridge National Laboratory, Oak Ridge, TN.

- Greene, David L., **Paul N. Leiby** and David Bowman, 2007. "Integrated Analysis of Vehicle Market Transformation Scenarios with HyTrans," ORNL/TM-2007/094, June.
- Greene, D.L., **P.N. Leiby**, P.D. Patterson, S.E. Plotkin, M.K. Singh, 2007. "Oil Independence: Achievable National Goal or Empty Slogan?" *Transp. Res. Record* No. 2017:47-53.
- P.N. Leiby**, D.L. Greene, D. Bowman, E. Tworek, 2006. "Systems Analysis of the Hydrogen Transition with HyTrans," *Transp. Research Record*, Vol. 1983:129-139.
- David L. Greene and **Paul N. Leiby**, 2006. "The Oil Security Metrics Model: a Tool for Evaluating the Prospective Oil Security Benefits of DOE's Energy Efficiency and Renewable Energy R&D Programs," ORNL TM-2006/505, May.
- Paul Leiby** and David Bowman, 2006. "Economic Benefits of Expanded Strategic Petroleum Reserve Size or Drawdown Capability," December 31, 2005, Final Report, Oak Ridge National Laboratory, ORNL/TM-2006/5.
- Paul Leiby**, David L. Greene, Sujit Das, David Bowman and Elzbieta Tworek 2005. "HyTrans - Hydrogen Transition Model, VERSION 1.5 Documentation," September 30.
- Jones, D.W., **P.N. Leiby**, and I.K. Paik 2004. "Oil Price Shocks and the Macroeconomy: What Has Been Learned since 1996," *Energy Journal*, 25(3).
- Paul Leiby** and Jonathan Rubin 2004. "Understanding the Transition to New Fuels and Vehicles: Lessons learned from Analysis and Experience of Alternative Fuel and Hybrid Vehicles," Chapter 14 in Daniel Sperling and James S. Cannon, *The Hydrogen Energy Transition* (London: Elsevier Academic Press).
- Paul N. Leiby** and Jonathan Rubin, 2003. "Transitions in Light-Duty Vehicle Transportation: Alternative Fuel and Hybrid Vehicles and Learning," *Transportation Research Record*.
- "Intertemporal Permit Trade for the Control of GHG Emissions," **Paul Leiby** and Jonathan Rubin, *Environmental and Resource Economics*, 19(3):229-256, 2001.
- Rubin, Jonathan and **Paul Leiby**, 2000. An Analysis of Alternative Fuel Credit Provisions of US Automotive Fuel Economy Standards, *Energy Policy*, 28(9):589- 602, (July).
- D.L. Greene, D.W. Jones, & **P.N. Leiby**, 1998. The Outlook for Oil Dependence, *Energy Policy* 26(1):55-60, 1998.
- Marland, Gregg, Bernhard Schlamadinger, and **Paul Leiby**, 1997. Forest/Biomass Based Mitigation Strategies: Does the Timing of Carbon Reductions Matter? *Critical Reviews in Environmental Science and Technology*, 27(Special):S213-226.

Other Pertinent Information

Chairman, Transportation Energy Committee, in the Transp. Research Board, of the NRC.
Reviewed for: Energy Policy, J. Env Econ. & Man, Operations Res. Applic., The Energy J.