

DECLARATION OF DR. NICHOLAS LUTSEY

EXHIBIT A

PEER-REVIEWED JOURNAL ARTICLES

- Wang, H., Lutsey, N. (2014). [Long-term potential to reduce emissions from international shipping by adoption of best energy-efficiency practices.](#) *Transportation Research Record: Journal of the Transportation Research Board.* 2426: 1-10
- Lutsey, N. (2012). [A technical analysis of model year 2011 US automobile efficiency.](#) *Transportation Research Part D: Transport and Environment.* 17: 361-369.
- Lutsey, N. (2012). [Regulatory and technology lead-time: The case of US automobile greenhouse gas emission standards.](#) *Transport Policy.* 21: 179-190.
- Lutsey, N., Sperling, D., (2012). [Regulatory adaptation: Accommodating electric vehicles in a petroleum world.](#) *Energy Policy.* 45: 308-316.
- Lutsey, N. (2011). [Comparison of emissions, energy, and cost impacts of diesel and hybrid models in the United States in 2010.](#) *Transportation Research Record: Journal of the Transportation Research Board.* 2252: 40-48.
- Lutsey, N. (2010). [Cost-effectiveness assessment of low-carbon vehicle and fuel technologies.](#) *Transportation Research Record: Journal of the Transportation Research Board.* 2191: 90-99.
- Lutsey, N., Sperling, D. (2010). [Toward integration of vehicle and fuel regulation: California case study.](#) *Transportation Research Record: Journal of the Transportation Research Board.* 2191: 100-110.
- Lutsey, N., Sperling, D. (2009). [Greenhouse gas mitigation supply curve for the United States for transport versus other sectors.](#) *Transportation Research Part D.* 14: 222-229
- Yeh, S., Lutsey, N., Parker, N. (2009). [Assessment of technologies to meet a low carbon fuel standard.](#) *Environmental Science & Technology.* 43 (18): 6907-6914.
- Lutsey, N. (2009). [Assessment of out-of-state truck activity in California.](#) *Transport Policy.* 16: 12-18.
- Lutsey, N., Sperling, D. (2008). [America's bottom-up climate change mitigation policy.](#) *Energy Policy.* 36: 673-685.
- Lutsey, N., Sperling, D. (2007). [Canada's voluntary agreement on vehicle greenhouse gas emissions: When the details matter.](#) *Transportation Research Part D.* 12: 474-487.
- Lutsey, N., Brodrick, C.J., Lipman, T. (2007). [Analysis of potential fuel consumption and emissions reductions from fuel cell auxiliary power units \(APUs\) in long-haul trucks.](#) *Energy.* 32: 2428-2438.
- Lutsey, N., Sperling, D. (2005). [Energy efficiency, fuel economy, and policy implications.](#) *Transportation Research Record: Journal of the Transportation Research Board.* 1941:8-17.
- Lutsey N., Brodrick, C.J., Sperling, D., Oglesby, C. (2004). [Heavy-duty truck idling characteristics: Results from a nationwide survey.](#) *Transportation Research Record: Journal of the Transportation Research Board.* 1880: 29-38
- Lutsey, N., Wallace, J., Brodrick, C.J., Dwyer, H., Sperling, D. (2004). [Modeling stationary power for heavy-duty trucks: Engine idling versus fuel cell APUs.](#) *Society of Automotive Engineers.* Paper 2004-01-1479

- Lutsey, N., Brodrick, C.J., Sperling, D., Dwyer, H. (2003). [Markets for fuel cell auxiliary power units in vehicles: A preliminary assessment](#). *Transportation Research Record: Journal of the Transportation Research Board*. 1842: 118-126.
- Brodrick, C.J., Lipman, T., Farshchi, M., Lutsey, N., Dwyer, H., Sperling, D. Gouse, S., Harris, B., King, F. (2002) [Evaluation of fuel cell auxiliary power units for heavy-duty diesel trucks](#). *Transportation Research Part D*. 7: 303-315.
- Brodrick, C. J., Lutsey, N., Keen, Q., Rubins, D., Wallace, J., Dwyer, H., Sperling, D., Gouse, S. (2001). [Truck idling trends: results of a northern California pilot study](#). *Society of Automotive Engineers*. Paper 2001-01-2828.

OTHER SELECTED PUBLICATIONS

- Slowik, P., Fedirko, L., Lutsey, N. (2019). [Assessing ride-hailing company commitments to electrification](#). International Council on Clean Transportation. February.
- Nicholas, M., Hall, D., Lutsey, N. (2019). [Quantifying the electric vehicle charging infrastructure gap across U.S. markets](#). International Council on Clean Transportation. January.
- Slowik, P., Pavlenko, N., Lutsey, N. (2019). [Emerging policy approaches to electrify ride-hailing in the United States](#). International Council on Clean Transportation. January.
- Pavlenko, N., Slowik, P., Lutsey, N. (2019). [When does electrifying shared mobility make economic sense?](#). International Council on Clean Transportation. January.
- Hall, Cui, H., Lutsey, N. (2018). [Electric vehicle capitals: Accelerating the global transition to electric drive](#). International Council on Clean Transportation. October.
- Slowik, P., Lutsey, N. (2018). [The continued transition to electric vehicles in U.S. cities](#). International Council on Clean Transportation. July.
- Hall, D., Pavlenko, N., Lutsey, N. (2018). [Beyond road vehicles: Survey of zero-emission technology options across the transport sector](#). International Council on Clean Transportation. July.
- Lutsey, N., Grant, M., Wappelhorst, S., Zhou H. (2018). [Power play: How governments are spurring the electric vehicle industry](#). International Council on Clean Transportation. May.
- Lutsey, N. (2018). [California's continued electric vehicle market development](#). International Council on Clean Transportation. May.
- Lutsey, N., Isenstadt, A. (2018). [How will off-cycle credits impact U.S. 2025 efficiency standards?](#) International Council on Clean Transportation. March.
- Hall, D., Lutsey, N. (2018). [Effects of battery manufacturing on electric vehicle life-cycle greenhouse gas emissions](#). International Council on Clean Transportation. March.
- Hall, D., Cui, H., Lutsey, N. (2017). [Electric vehicle capitals of the world: What cities are leading the transition to electric?](#) International Council on Clean Transportation. November.
- Hall, D., Lutsey, N. (2017). [Emerging best practices for electric vehicle charging infrastructure](#). International Council on Clean Transportation. October.
- Isenstadt, A., Lutsey, N. (2017). [Developing hydrogen fueling infrastructure for fuel cell vehicles: A status update](#). International Council on Clean Transportation. October.

- Moultak, M., Lutsey, N., Hall D. (2017). [Transitioning to zero-emission heavy-duty freight vehicles](#). International Council on Clean Transportation. September.
- Slowik, P., Lutsey, N. (2017). [Expanding the electric vehicle market in U.S. cities](#). International Council on Clean Transportation. July.
- Lutsey, N. (2017). [Integrating electric vehicles within U.S. and European efficiency regulations](#). International Council on Clean Transportation. June.
- Miller, J., Lutsey, N. (2017). [Consumer benefits of increased efficiency in 2025-2030 light-duty vehicles in the U.S.](#) International Council on Clean Transportation. June.
- Lutsey, N. (2017). [Update: California's electric vehicle market](#). International Council on Clean Transportation. May.
- Lutsey, N., Meszler, D., Isenstadt, A., German, J., Miller, J. (2017). [Efficiency technology and cost assessment for U.S. 2025–2030 light-duty vehicles](#). International Council on Clean Transportation. March.
- Hall, D., Moultak, M., Lutsey, N. (2017). [Electric vehicle capitals of the world: Demonstrating the path to electric drive](#). International Council on Clean Transportation. March.
- Hall, D., Lutsey, N. (2017). [Literature review on electric power utility best practices regarding electric vehicles](#). International Council on Clean Transportation. February.
- Slowik, P., Lutsey, N., (2016). [Evolution of incentives to sustain the transition to a global electric vehicle fleet](#). International Council on Clean Transportation. November.
- Lutsey, N., Slowik, P., Jin, L. (2016). [Sustaining electric vehicle market growth in U.S. cities](#). International Council on Clean Transportation. November.
- Kwan, I., Lutsey, N., Slowik, P., Jin, L. (2016). [Identifying the leading regional electric vehicle markets in the U.S.](#) International Council on Clean Transportation. November.
- Slowik, P., Pavlenko, N., Lutsey, N. (2016). [Assessment of next-generation electric vehicle technologies](#). International Council on Clean Transportation. October.
- Searle, S., Pavlenko, N., Lutsey, N. (2016). [Leading edge of electric vehicle market development in the United States: An analysis of California cities](#). International Council on Clean Transportation. September.
- Wolfram, P., Lutsey, N. (2016). [Electric Vehicles: Literature review of technology costs and carbon emissions](#). International Council on Clean Transportation. July.
- Tietge, U., Mock, P., Lutsey, N., Campestrini, A. (2016). [Comparison of leading electric vehicle policy and deployment in Europe](#). International Council on Clean Transportation. June.
- Lutsey, N., Chambliss, S., Tietge, U., Mock, P. (2016). [A comparative analysis of electric-drive policy in Germany and California](#). National Organisation Hydrogen and Fuel Cell Technology. May.
- Yang, Z., Slowik, P., Lutsey, N., Searle, S. (2016). [Principles for effective electric vehicle incentive design](#). International Council on Clean Transportation. June.
- Lutsey, N. (2015). [Global climate change mitigation potential from a transition to electric vehicles](#). International Council on Clean Transportation. December.

- Lutsey, N., Slowik, P. (2015). [U.S. city electric vehicle city profiles](#). International Council on Clean Transportation. December.
- Lutsey, N. (2015). [Supporting the electric vehicle market in U.S. cities](#). International Council on Clean Transportation. October.
- Lutsey, N. (2015). [Transition to a global zero-emission vehicle fleet: A collaborative agenda for governments](#). International Council on Clean Transportation. September.
- Lutsey, N., Searle, S., Chambliss, S., Bandivadekar, A., (2015). [Assessment of leading electric vehicle promotion activities in United States cities](#). International Council on Clean Transportation. July.
- Lutsey, N., Muncrief, R., Sharpe, B., Delgado, O., (2015). [U.S. efficiency and greenhouse gas emission regulations for MY 2018–2027 heavy-duty vehicles, engines, and trailers](#). International Council on Clean Transportation. June.
- Meszler, D., Lutsey, N., Delgado, O. (2015). [Cost effectiveness of advanced efficiency technologies for long-haul tractor-trailers in the 2020–2030 timeframe](#). International Council on Clean Transportation. April.
- Delgado, O., Lutsey, N. (2015). [Advanced tractor-trailer efficiency technology potential in the 2020–2030 timeframe](#). International Council on Clean Transportation. April.
- Lutsey, N. (2015). [Regulatory considerations for advancing commercial pickup and van efficiency technology in the United States](#). International Council on Clean Transportation. April.
- Malins, C., Lutsey, N., Galarza, S., Shao, Z., Searle, S., Chudziak, C., van den Berg, M. (2015). [Potential low carbon fuel supply to the Pacific Coast region of North America](#). International Council on Clean Transportation. January.
- Jin, L., Searle, S. Lutsey, N. (2014). [Evaluation of state-level U.S. electric vehicle incentives](#). International Council on Clean Transportation. October.
- Lutsey, N., Langer, T., Khan, S. (2014). [Stakeholder workshop report on tractor-trailer efficiency technology in the 2015-2030 timeframe](#). International Council on Clean Transportation. August
- Sharpe, B. Delgado, O., Lutsey, N. (2014). [Benefit-cost analysis of integrating trailers into heavy-duty vehicle efficiency regulation](#). International Council on Clean Transportation. July.
- Delgado, O., Lutsey, N. (2014). [The U.S. SuperTruck Program: Expediting development of advanced HDV efficiency technologies](#). International Council on Clean Transportation. June.
- Wang, H., N. Lutsey (2013). [Long-term potential for increased shipping efficiency through the adoption of industry-leading practices](#). International Council on Clean Transportation. July.
- Lowell, D., H. Wang, N. Lutsey (2013). [Assessment of the fuel cycle impact of liquefied natural gas as used in international shipping](#). International Council on Clean Transportation. May.
- Lutsey, N. (2012). [New Automobile Regulations: Double the Fuel Economy, Half the CO2 Emissions, and Even Automakers Like It](#). ACCESS Magazine. October.

- Kodjak, D., A. Bandivadekar, J., German, N. Lutsey (2011). [*The Regulatory Engine: How Smart Policy Drives Vehicle Innovation*](#). International Council on Clean Transportation. January.
- Lutsey, N. (2010). [*Review of Technical Literature and Trends Related to Automobile Mass-Reduction Technology*](#). Institute of Transportation Studies, University of California, Davis. Research Report UCD-ITS-RR-10-10.
- German, J., N. Lutsey, (2010). [*Size or Mass?: The Technical Rationale for Selecting Size as an Attribute for Vehicle Efficiency Standards*](#). International Council on Clean Transportation. White Paper Number 9. July.
- Lutsey, N. (2009). “Technology Progress and Prospects toward Automobile Greenhouse Gas Emission Reductions in the United States.” Proceedings of the 2009 Korean Transport Institute International Conference. September.
- Sperling, D. and N. Lutsey (2009). [*Energy Efficiency in Passenger Transportation*](#). *The Bridge*. National Academy of Engineering. Volume 39 (2): 22-30. Summer 2009.
- Sperling, D., D. Salon, N. Lutsey (2009). “[*Reducing Greenhouse-Gas Emissions from Transportation*](#).” Chapter 7 in *Transportation Infrastructure: The Challenges of Rebuilding America*. Ed. M. Boarnet. American Planning Assoc.
- Sperling, D., Cannon, J. Lutsey, N. (2009). [*Climate change and transportation*](#). Chapter 1 in *Reducing Climate Impacts in the Transportation Sector*. Springer.
- Lutsey, N. (2008). [*Prioritizing Climate Change Mitigation Alternatives: Comparing Transportation Technologies with Options in Other Sectors*](#). Ph.D. Dissertation. Institute of Transportation Studies, University of California, Davis.
- Lutsey, N. (2008). [*Assessment of Out-of-State Heavy Duty Truck Activity in California*](#). Institute of Transportation Studies, University of California, Davis.
- Lutsey, N., B. Jungers, and D. Niemeier (2008). [*Yolo County Government: An Action Plan for Reducing Greenhouse Gas Emissions Associated with County Operations*](#). John Muir Institute on the Environment. University of California, Davis.
- Lutsey, N., Regnier, J. et al (2006). [*Assessment of Tire Technologies and Practices for Potential Waste and Energy Use Reductions*](#). Institute of Transportation Studies, University of California, Davis, Research Report UCD-ITS-RR-06-11.
- Lutsey, N. (2003) [*Fuel Cells for Auxiliary Power in Trucks: Requirements, Benefits, and Marketability*](#). Institute of Transportation Studies, University of California, Davis, Research Report UCD-ITS-RR-03-04

SELECTED PRESENTATIONS

- “An international perspective on electric vehicle market development.” Agora Verkehrswende. Berlin, Germany. November 17, 2017.
- “What is driving the U.S. electric vehicle market.” Electric Vehicle Symposium 30. Stuttgart, Germany. October 10, 2017
- “Emerging best practices for electric vehicle charging infrastructure.” Electric Vehicle Symposium 30. Stuttgart, Germany. October 9, 2017

- “What’s driving electric vehicle uptake?” Electric vehicle roadmap 10. Portland, Oregon. June 21, 2017
- “Electric vehicle discussion.” European Parliament. Brussels, Belgium. May 23, 2017.
- “Global ZEV technology and policy trends.” Zero Emission Vehicle Alliance Annual Assembly. Amsterdam, Netherlands. May 19, 2017.
- “Looking ahead: Electric drive.” Health Effects Institute 2017 Annual Conference. Washington, D.C. April 30, 2017.
- “Electric vehicles: Global technology, market, and policy trends.” Naval Postgraduate School Defense Energy Seminar. Monterey, California. August 26, 2016.
- “Emerging best practices to accelerate electric vehicle deployment.” C40 Low Emission Vehicle Network Workshop. Los Angeles, California. June 29, 2016.
- “Global ZEV technology and policy trends.” Zero Emission Vehicle Alliance Annual Assembly. Montréal, Québec. June 23, 2017.
- “Emerging best practices to accelerate electric vehicle deployment.” Institute of Transportation Studies, University of California, Davis Seminar. May 2016
- “Emerging international best practices to promote electric vehicles.” AVERE E-mobility Conference. Amsterdam, Netherlands. April 13, 2016.
- “Transitioning to an electric vehicle fleet.” UN Foundation / Ceres Investment Summit on Climate Risk conference. New York, New York. January 27, 2016
- “Research on available tractor-trailer efficiency technologies.” SAE Government/Industry Meeting. Washington, D.C. January 21, 2016
- “Proposed U.S. heavy-duty standards: Technologies, costs, and global context.” SAE Commercial Vehicle Engineering Congress. Rosemont, Illinois. October 7, 2015.
- “Transition to a global zero-emission vehicle fleet: A collaborative agenda for governments.” International Zero-Emission Vehicle launch event. New York, New York. September 29, 2015.
- “ICCT testimony on US heavy-duty vehicle Phase 2 regulation.” Chicago, Illinois, August 6, 2015
- “Zero-emission vehicle policy, research, target-setting, recommendations.” Zero-emission vehicle collaboration meeting. Oakland, California. May 20, 2015.
- “Tractor-trailer efficiency technology, cost, and payback assessment.” Memphis, Tennessee. FedEx. May 14, 2015.
- “Briefing on ICCT research on electric vehicle policy and deployment” International Energy Agency Implementing Agreement meeting. Gwangju, Republic of Korea. April 30, 2015.
- “Tractor-trailer efficiency technology, cost, and payback assessment.” California Phase 2 GHG April 2015 Symposium. Diamond Bar, California. April 22, 2015.
- “Tracking electric-drive vehicle progress.” Electric drive vehicle strategy session. Atlanta, Georgia. April 15, 2015.
- “Preliminary results on efficiency technology and payback analysis.” Walmart. Bentonville, Arkansas. March 12, 2015.
- “Potential low-carbon fuel supply to the Pacific Coast region of North America.” Calstart Low Carbon Fuel Symposium. Sacramento. February 3, 2015.
- “Advanced Tractor-Trailer Efficiency Technologies: Progress from the U.S. SuperTruck Program.” 5th International Car Training Institute Conference. Troy, Michigan. September 2014.

- “The State of the U.S. Electric Vehicle Market: Webinar” Bloomberg Government. March 13, 2014
- “Prospects for International Harmonization for Heavy-Duty Vehicle Efficiency.” SAE Government/Industry Meeting. Washington, D.C. January 24, 2014.
- “Global lightweight vehicle developments and policy design implications.” Global Fuel Economy Initiative workshop. Beijing, China. June, 2013.
- “Best practices in global low carbon fuel policy.” SAE Fuels, Lubricants, and Aftertreatment Symposium. Long Beach, California. November 19th, 2013
- “Overview on actions to reduce shipping emissions.” 2012 U.S.-Taiwan Sustainability Symposium: Creating Sustainable Cities and Promoting Sustainable Ports in the Asia Pacific Region. Kaohsiung, Taiwan. December 10-11, 2012
- "Technical Assessment in US Greenhouse Gas (GHG) Regulations: Methodology and Key Results." Greenhouse Gas Reduction Technology Workshop. Brussels, Belgium. [February 1, 2012.](#)
- "The Case for Vehicle Efficiency Regulations: Past, Present, and Future of US Standards." 21st Annual UCLA Lake Arrowhead Symposium. Lake Arrowhead, CA. [October 17, 2011.](#)
- "Electric Vehicles in US Regulations: Existing 2012-2016 provisions and considerations regarding future electric vehicle policy." GIZ, Ministry of Science and Technology, CATARC. Beijing, China. July 13, 2011.
- "Emerging Technologies for Efficient, Low-CO₂ Automobiles." Congreso Internacional de Transporte Sustentable VI. Mexico City, Mexico. [October 5, 2010.](#)
- "Technologies and Trends for Reducing Automobile Greenhouse Gas Emissions in the 2025 Timeframe." California Air Resources Board. El Monte, CA. [March 2, 2010.](#)
- “Review of Fuel Economy/GHG Standards Worldwide: Design Considerations.” Presentation to the Instituto Nacional de Ecologia. Mexico City, Mexico. September 2, 2009.
- “Technology Progress and Prospects toward Automobile Greenhouse Gas Emission Reductions in the United States.” Proceedings of the 2009 East-West Center and Korean Transport Institute. Honolulu, Hawaii. August 13, 2009.
- "Prioritizing Climate Change Mitigation Alternatives by Cost-Effectiveness." Chairman’s Air Pollution Seminar Series. California Air Resources Board. Sacramento, CA. [April 30, 2008.](#)
- "America’s Bottom-Up Climate Change Mitigation Policy." Transportation Research Board 87th Annual Meeting. Washington, D.C. January 14, 2008.