

I. Ph.D. Dissertations

1. Azevedo, I.M.L., *Energy Efficiency in the U.S. Residential Sector: An Engineering and Economic Assessment of Opportunities for Large Energy Savings and Greenhouse Gas Emissions Reductions*. 2009.
2. Gilmore, E.A., *Integrating Comprehensive Air Quality Modeling with Policy Analysis: Applications for Distributed Electricity Generation*. 2009.
3. Samaras, C., *A life-cycle approach to technology, infrastructure, and climate policy decision making: Transitioning to plug-in hybrid electric vehicles and low-carbon electricity*. 2008.
4. Walawalkar, R., *Economics of Emerging Electric Energy Storage Technologies and Demand Response in Deregulated Electricity Markets*. 2008.
5. Spees, K., *Meeting Electric Peak on the Demand Side: Wholesale and Retail Market Impacts of Real-Time Pricing and Peak Load Management Policy*. 2008.
6. Newcomer, A., *Limiting the Financial Risks of Electricity Generation Capital Investments Under Carbon Constraints: Applications and Opportunities for Public Policies and Private Investments*. 2008.
7. McCoy, S.T., *The Economics of CO₂ Transport by Pipeline and Storage in Saline Aquifers and Oil Reservoirs*. 2008.
8. Chan, M., *Coal Supply and Cost Under Technological and Environmental Uncertainty*. 2008.
9. Marriott, J., *An Electricity-focused Economic Input-output Model: Life-cycle Assessment and Policy Implications of Future Electricity Generation Scenarios*. 2007.
10. Jaramillo, P., *A Life Cycle Comparison of Coal and Natural Gas for Electricity Generation and the Production of Transportation Fuels*. 2007.
11. Hines, P., *A Decentralized Approach to Reducing the Social Costs of Cascading Failures*. 2007.
12. Stolaroff, J.K., *CO₂ capture from ambient air: a feasibility assessment*. 2006.
13. Patiño-Echeverri, D., *Valuing Risk Reduction: Three Applications in the Electricity Industry*. 2006.
14. Morrow, W., *U.S. Biomass Energy: An Assessment of Costs & Infrastructure for Alternative Uses of Biomass Energy Crops as an Energy Feedstock*. 2006.
15. King, D.E., *Electric Power Micro-grids: Opportunities and challenges for an emerging distributed energy architecture*. 2006.
16. Chen, C., *A Technical and Economic Assessment of CO₂ Capture Technologies for IGCC*

- Power Plants*. 2006.
17. Blumsack, S., *Network Topologies and Transmission Investment Under Electric Industry Restructuring*. 2006.
 18. Vajjhala, S.P., *Mapping Alternatives: Facilitating Citizen Participation in Development Planning and Environmental Decision Making*. 2005.
 19. Bergerson, J.A., *Future Electricity Generation: An Economic and Environmental Life Cycle Perspective on Near-, Mid- and Long-Term Technology Options and Policy Implications*. 2005.
 20. Zerriffi, H., *Electric Power Systems Under Stress: An Evaluation of Centralized Versus Distributed System Architectures*. 2004.
 21. Wilson, E.J., *Managing the Risks of Geologic Carbon Sequestration: A Regulatory and Legal Analysis*. 2004.
 22. Perekhodtsev, D., *Two Essays on Problems of Deregulated Electricity Markets*. 2004.
 23. DeCarolis, J., *The Economics and Environmental Impacts of Large-Scale Wind Power in a Carbon Constrained World*. 2004.

II. Journal Articles

1. Peterson, S., J. Apt, and J. Whitacre, *Lithium-Ion Battery Cell Degradation Resulting from Realistic Vehicle and Vehicle-to-Grid Utilization*. Journal of Power Sources, In Review.
2. Pattanariyankool, S. and L.B. Lave, *Optimizing Transmission from Distant Wind Farms*. The Energy Journal, In Review.
3. Xie, L. and M. Ilic, *Structure-preserving Dynamical Model and Distributed Stabilization of Electricity Infrastructures with Renewable Energy Resources*. International Journal of Critical Infrastructures, In Review.
4. Rotering, N. and M. Ilic, *Optimal Charge Control of Plug-In Hybrid Electric Vehicles In Deregulated Electricity Markets*. Automatica, In Review.
5. Patiño-Echeverri, D. and B. Morel, *An options theory method to value Electricity Financial Transmission Rights*. IEEE Transactions on Power Systems, In Review.
6. Mangmeechai, A., H.S. Matthews, M. Griffin, P. Jaramillo, and C. Hendrickson, *Economic and Environmental Life Cycle Assessment of Oil Sands*. Environmental Science and Technology, In Review.
7. Gresham, R.L., J. Apt, M.G. Morgan, and S.T. McCoy, *Implications of Compensating Property-Owners for Geologic Sequestration of CO₂*. Environmental Science & Technology, In Review.

8. Gilmore, E.A., J. Apt, R. Walawalkar, P.J. Adams, and L.B. Lave, *The air quality and human health effects of integrating utility-scale batteries into the New York State electricity grid*. Journal of Power Sources, In Review.
9. Blumsack, S., M. Ilic, and L.B. Lave, *Decomposing Congestion and Reliability*. IEEE Transactions on Power Systems, In Review.
10. Samaras, C., H.S. Matthews, L. Lave, and G.M. Morgan, *Economic Subsidies of Plug-Hybrid Electric Vehicles*. Transportation Research Part D, In Review.
11. Ilic, M., L. Xie, U. Khan, and J.M.F. Moura, *Modeling, Sensing, and Control in Future Energy Systems*. IEEE Transactions on Systems, Man and Cybernetics, In Press (Special issue on engineering cyber-physical ecosystems).
12. Peterson, S., J. Whitacre, and J. Apt, *The Economics of Using PHEV Battery Packs for Grid Storage*. Journal of Power Sources, In Press.
13. Morel, A. and B. Morel, *How could avoided deforestation credits compete with returns from palm oil: A proposal for more flexible mechanism*. Journal of Sustainable Forestry, In Press.
14. Jaramillo, P., M. Griffin, and S.T. McCoy, *Life Cycle Inventory of CO₂ in an Enhanced Oil Recovery System*. Environmental Science and Technology, In Press.
15. Hines, P., J. Apt, and S. Talukdar, *Large Blackouts in North America: Historical trends and policy implications*. Energy Policy, In Press.
16. Victor, D.G., M.G. Morgan, J. Apt, J. Steinbruner, and K. Ricke, *The Geoengineering Option: A Last Resort Against Global Warming?* Foreign Affairs, 2009. **88**(2): p. 64-76.
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20. Newcomer, A. and J. Apt, *Near term implications of a ban on new coal-fired power plants in the US*. Environmental Science & Technology, 2009. **43**(11): p. 3995-4001.
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31. Walawalkar, R., S. Blumsack, J. Apt, and S. Fernands, *An Economic Welfare Analysis of Demand Response in the PJM Electricity Market*. Energy Policy, 2008. **36**(10): p. 3692-3702.
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