

Curriculum Vitae
Nicholas D. Laws, Ph.D.

February 26, 2025

Contents

Professional Experience	1
Education	1
Peer-Reviewed Journal Articles	2

Professional Experience

- Director of Modeling and Analytics, IdeaSmiths LLC, 2024–present
- Senior Power Systems Optimization Engineer, Camus Energy, 2022–present
- Research Engineer, National Renewable Energy Laboratory, 2017–2022
- Graduate Research Assistant, Webber Energy Group, UT Austin, 2018–2023
- Graduate Research Assistant, Thayer School of Engineering, Dartmouth College, 2014-2016
- Mountain, Climbing, and Ski Guide, Aspen Alpine Guides, 2013-2014
- Mountain Guide, International Mountain Guides, 2011-2014
- Commodity Buyer, Valley Lumber, 2007-2011
- Construction Manager, Eldorado Climbing Walls, 2006-2007

Education

- Ph.D. Mechanical Engineering, The University of Texas at Austin, 2023
- M.S. Engineering Sciences, Thayer School of Engineering Dartmouth College, 2016
- B.S. Aerospace Engineering, Boston University, 2005

Peer-Reviewed Journal Articles

6. **Laws, Nicholas D.**, Chen, Dongmei, and Webber, Michael J. “[Valuing distributed energy resources for non-wires alternatives](#)”. In: *Electric Power Systems Research* 234 (2024)
5. **Laws, Nicholas D.** and Hanasusanto, Grani A. “[Linearizing bilinear products of shadow prices and dispatch variables in bilevel problems for optimal power system planning and operations](#)”. In: *IEEE Transactions on Power Systems* 38.1 (2022)
4. Mishra, Sakshi, Pohl, Josiah, **Laws, Nicholas D.**, Cutler, Dylan, Kwasnik, Ted, Becker, William, Zolan, Alex, Anderson, Kate, Olis, Dan, and Elgqvist, Emma. “Computational framework for behind-the-meter DER techno-economic modeling and optimization: REopt Lite”. In: *Energy Systems* (2021). URL: <https://arxiv.org/pdf/2008.05873>
3. McLaren, Joyce, **Laws, Nicholas D.**, Anderson, Kate, DiOrio, Nicholas, and Miller, Hannah. “Solar-plus-storage economics: What works where, and why?” In: *The Electricity Journal* 32.1 (2019). URL: <https://www.sciencedirect.com/science/article/am/pii/S1040619018302744>
2. **Laws, Nicholas D.**, Anderson, Kate, DiOrio, Nicholas A, Li, Xiangkun, and McLaren, Joyce. “Impacts of valuing resilience on cost-optimal PV and storage systems for commercial buildings”. In: *Renewable energy* 127 (2018). URL: <https://www.sciencedirect.com/science/article/am/pii/S0960148118305305>
1. Anderson, Kate, **Laws, Nicholas D.**, Marr, Spencer, Lisell, Lars, Jimenez, Tony, Case, Tria, Li, Xiangkun, Lohmann, Dag, and Cutler, Dylan. “Quantifying and monetizing renewable energy resiliency”. In: *Sustainability* 10.4 (2018). URL: <https://www.mdpi.com/2071-1050/10/4/933/pdf>