Curriculum Vitae
Nicholas D. Laws, Ph.D.

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Contents

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), page 110521. URL: `https://www.sciencedirect.com/science/article/pii/S0378779624004073`

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), pages 668–680

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), pages 1–29. 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), pages 28–46. 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), pages 896–909. 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), page 933. URL: `https://www.mdpi.com/2071-1050/10/4/933/pdf`