



Jonathan A. Strahl

Associate Director

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Professional Summary

Jonathan Strahl is an Associate Director with Navigant's Central Analytics service offering. Jonathan specializes in financial analysis to support innovative electric utility programs such as vehicle-to-grid, non-wires alternatives, and distributed grid intelligence to regulators, stakeholders and decision-makers within the enterprise. Jonathan is an expert at using probabilistic analytical methods to quantify the uncertainty inherent to all innovative investments and help clients to set investment priorities in an environment of rapid technological transformation. He earned an MA from Stanford University where he was formally trained in design process leadership, workshop facilitation, and project management through the Stanford d.school and Graduate School of Business.

Additional Professional Experience

Benefit-Cost Analysis of Distributed Energy Resources

- Currently leading the technical and economic analysis of PSE's non-wires alternatives. The analysis considers DR, DSM, solar PV, and battery storage against an hourly forecast of loads specific to each region. Jonathan developed a toolkit for PSE to use to determine the optimal mix of DSM/DR resources to pair with strategically-dispatched storage for a least cost solution that still meets PSE's technical criteria.
- Currently leading a cost benefit analysis for Avangrid's non-wires and non-pipes alternative solution proposals in New York state. The analysis involves substation-level 8760 load forecasts, developing a template to solicit market-based alternative solutions from third-party developers, and assessing technical feasibility and cost effectiveness of the proposed solutions.
- Currently leading Navigant's APS modeling team, including managing Navigant's PROCESS (Program Cost Effectiveness Scenario Software) tool for implementation planning, savings verification, cost effectiveness testing, and portfolio incentive optimization. Other responsibilities include developing results for ACC regulatory filings, characterizing energy storage measures optimized around time-of-use rates, and assessing time-differentiated and locational non-wires alternative value of energy and demand savings.



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- Lead model developer for Duke Energy's Distributed Intelligence Business model. The project involves developing expected benefits and costs from distributed intelligence technologies that communicate independent of a centralized system. The analysis relies on Monte Carlo simulation, power flow modeling of representative circuits, and scenario analysis to represent inherent uncertainty associated with cutting-edge technology investments.
- Project manager for Eversource's cost benefit analysis of 15 different distribution grid modernization investments (e.g. distribution automation, FLISR, TVR, and network monitoring) using Navigant's Grid+ quantitative cost benefit analysis tool. Developed a framework to categorize investment impacts and streamline data transfer. The client used the analysis to defend their investments decisions to the state regulator. Massachusetts [DPU Docket Number 15-122](#).

Pacific Northwest Market Experience

- **Puget Sound Energy DSM Program Evaluation.** Project manager for evaluation of 2016-2017 biennium of PSE's commercial new construction program. The evaluation included business case review and development of energy simulation models to verify savings for a statistically significant representative sample of program participants.
- **Portland General Electric: Electric Vehicle Program Cost Benefit Analysis.** [Download Report](#). Led development of a cost benefit analysis model to allow PGE to assess cost effectiveness of EV education programs, public DC fast charging infrastructure, and an electric bus initiative.
- **Bonneville Power Administration Residential HVAC Momentum Savings.** Lead developer of a methodology to calculate residential and commercial HVAC "momentum savings" that occur outside of utility EE programs in the Pacific Northwest. The methodology uses primary sales data, sophisticated energy models, and region-specific stock turnover models. Mr. Strahl coordinated efforts between various teams developing each input, and led design of the model that uses a creative problem solving to unite the inputs into an analysis. He presented the analysis and results to technical and non-technical audiences.
- **Tacoma Power Energy Trading and Risk Management Technology Integration Roadmap.** Developed a technology integration roadmap to modernize the power operations group and real time energy trading team at Tacoma Power. This entails understanding the needs of each function within power operations, assessing vendor offerings against these needs, and facilitating development of a short and long term operations technology modernization plan.
- **Pacific Gas and Electric Vehicle to Home Cost Benefit Analysis.** Led the cost-benefit analysis for [PG&E's EPIC 2.03 project](#) examining the technical and economic viability of Vehicle to Home (V2H) electric vehicle capabilities. The analysis compared an electric vehicle to stationary storage to serve demand response and disaster resilience use cases.

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Selected Publications

- Hamm, Jessica, Erik Gilbert, and Jonathan Strahl. "[Will Grid Distributed Intelligence Actually Provide Net Benefits?](#)" Distributech Jan 23rd 2018, San Antonio, Texas.
- Strahl, Jonathan; Emily Paris, and Laura Vogel. "The Bankable Microgrid: Strategies for Financing On-Site Power Generation." Powergen Conference Proceedings. December 2015.
- Strahl, Jonathan. "Cracking the Code: An Approach to Estimating Savings from Energy Codes." IEPEC Conference Proceedings 2015, August 2015.
- Wood, Lee and Jonathan Strahl. "Maintaining Cost Effective ENERGY STAR Homes Programs in a Shifting Environment." ACEEE Summer Study 2014, August 2014.
- Strahl, Jonathan and Michael Noreika. "The Goldilocks Formula: How Should Utilities Reach Small Commercial Customers?" Association of Energy Service Professionals Fall Conference 2013. October 2, 2013. Seattle, WA.

Professional Associations

- LEED v4 AP BD + C
- PTCS Certified Home Energy Technician

Education

- MA, International Policy Studies – Energy and Environment. Stanford University
- BA, Psychology, Class Valedictorian, Claremont McKenna College