

# BENJAMIN HALEY

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*Energy consultant with experience across all aspects of electricity sector planning including long-term greenhouse gas target achievement, distributed resource portfolio optimization, and asset evaluation.*

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## PROFESSIONAL EXPERIENCE

### EVOLVED ENERGY RESEARCH, SAN FRANCISCO, CA

Co-Founder, January 2016– Present

- Founded a consulting firm focused on energy-sector transformation in the context of deep decarbonization. Lead developer of two software tools – EnergyPATHWAYS and the Regional Investment and Operations platform (RIO) – designed to answer questions posed by these types of energy systems.
- Technical lead on deep decarbonization analyses for Washington State, Hydro-Quebec, and Portland General Electric
- Technical lead on analysis underpinning *Risky Business: From Risk to Return*, a nationwide study focused on the business opportunities of deep decarbonization
- Other projects include work with DOE’s Office of Energy Policy and Systems Analysis on the value of flexible loads in the U.S.; work with the National Renewable Energy Laboratory on their *Electrification Futures Study* initiative; and work with other electric utility clients on deep decarbonization and related topics

### UNITED STATES DEEP DECARBONIZATION PATHWAYS RESEARCH TEAM, SAN FRANCISCO, CA

Technical Lead, August 2015– Present

- As the lead analyst for the U.S. research team, contributed to the 2014 Deep Decarbonization Pathways Project (DDPP) Synthesis Report and the 2015 DDPP Synthesis Report issued to the U.N. by the Sustainable Development Solutions Network (SDSN) and the Institute for Sustainable Development and International Relations (IDDRI)
- Built the US PATHWAYS model that provided the analytics for the USDDPP reports: “Policy Implications of Deep Decarbonization” and “Pathways to Deep Decarbonization”

### ENERGY & ENVIRONMENTAL ECONOMICS, INC., SAN FRANCISCO, CA

Senior Consultant, June 2010 – December 2015

- Lead developer of PATHWAYS, an economy-wide, bottom-up energy sector model used to inform mid-term greenhouse gas target-setting by the California Governor’s Office
- Lead technical analyst on a distributed resources planning model for Con Edison of New York that was used to develop portfolios that include energy storage, demand response, energy efficiency, and customer-side generation resources consistent with the state of New York’s Utility 2.0 vision. The model was selected by the Utility Analytics Institute in 2014 for its “Most Innovative Award”
- Developed the Energy Storage Valuation Tool for the Electric Power Research Institute (EPRI), which allows for comprehensive cost-benefit analysis amongst different technology options and applications

## ACADEMIC PUBLICATIONS

- Haley, et. al (2012). “The 2020 emissions reduction impact of urban water conservation in California,” *Journal of Water and Climate Change*.
- Cutter, E., B. Haley, J. Hargreaves, J.H. Williams (2014). “Utility scale energy storage and the need for flexible capacity metrics,” *Applied Energy*.
- DeBenedictis, A., B. Haley, C.K. Woo, E. Cutter (2013). “Operational energy-efficiency improvement of municipal water pumping in California,” *Energy*.
- Mahone, A., B. Haley, R. Orans, J.H. Williams (2011). “Electric Vehicles and Gas-Fired Power: A strategic approach to mitigating rate increases and greenhouse gas price risk”, *Public Utilities Fortnightly*.

## EDUCATION

### MIDDLEBURY INSTITUTE OF INTERNATIONAL STUDIES, Monterey, CA

*Master of Arts in International Environmental Policy, May 2010*

### BUCKNELL UNIVERSITY, Lewisburg, PA

*Bachelor of Science in Business Administration, May 2007*

