



DAN MELLINGER, SENIOR CONSULTANT

EDUCATION

B.S., Electrical Engineering, Michigan State University, 1999

CERTIFICATIONS

Professional Engineer (PE) – Vermont, 2006

Certified Energy Manager (CEM) – Association of Energy Engineers, 2008

Lighting Certified (LC) – National Council on Qualifications for the Lighting Professions, 2009

Leadership and Management Professional Certificate – University of Vermont, 2013

EXPERIENCE

2017-present: Senior Consultant, Energy Futures Group, Hinesburg, VT

2016-2017: Senior Strategic Planner, Vermont Energy Investment Corp., Burlington, VT

2009-2016: Commercial Lighting Strategy Manager, Vermont Energy Investment Corp., Burlington, VT

2005-2009: Business Energy Consultant, Vermont Energy Investment Corp., Burlington, VT

1999-2005: Semiconductor Manufacturing Engineer, IBM, Essex Junction, VT

PROFESSIONAL SUMMARY

Dan specializes in the design, planning and administration of commercial and industrial energy efficiency programs, with expertise in lighting technologies. He provides technical consultative services on a wide range of energy efficiency topics including technology capabilities; market analysis; technology adoption; savings potential forecasting; program planning and design; industry standards; training programs; and financing. He has designed, launched, and managed industry leading commercial energy efficiency programs. Dan has consulted on hundreds of commercial efficiency projects across numerous jurisdictions and speaks nationally on program design, policy development, industry standards, and lighting technology.

SELECTED PROJECTS

- *California Alternative Energy and Advance Transportation Financing Authority (CAEATFA)*. Provide technical assistance on the design, development, and implementation of commercial energy efficiency financing pilots. (2017 to present)
- *DesignLights Consortium*. Provide research and technical assistance on the evolution of the version 5.0 solid state lighting technical performance requirements. Incorporate LED product requirements that enable the integration of networked lighting controls. (2018 to present)
- *DesignLights Consortium*. Develop product adoption and energy savings forecasts for commercial and industrial LED lighting and networked lighting controls. (2018)
- *Rhode Island Energy Efficiency & Resource Management Council*. Provide technical consultative insights on commercial and industrial energy saving measures. Propose new



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- technologies, programs, and approaches that help meet the need for innovation savings. (2018 to present)
- ***Citizens Action Coalition (Indiana)***. Delivered and defended testimony that quantified the potential for higher levels of energy efficiency as an alternative resource to a proposed gas plant. Critically reviewed market potential study findings and action plans. (2018-2019)
 - ***Minnesota Center for Environmental Advocacy***. Delivered and defended testimony that quantified the potential for higher levels of energy efficiency in a 250 MW gas plant integrated resource plan proceeding. (2018)
 - ***Natural Resources Defense Council (Michigan and Colorado)***. Critically reviewed multi-year DSM plans filed by Michigan and Colorado utilities. Delivered and defended regulatory testimony on energy efficiency potential. (2017-2018)
 - ***Technical Reference Manual Development (Vermont, Ohio, Illinois, Iowa, D.C.)***. Developed commercial lighting TRM characterizations for Efficiency Vermont prescriptive and midstream programs. Technologies addressed include LED lamps & fixtures, fluorescent lamps & fixtures, and lighting controls. Contributed to TRM lighting measure characterizations in Ohio, Illinois, Iowa, and the Washington D.C. (2011-2017)
 - ***Vermont Demand Resource Plan***. Developed a 20-year forecast of efficiency potential from commercial and residential lighting for the Vermont Demand Resource Plan (DRP). Forecast metrics included adoption, energy and demand savings, and incentive spending. The DRP is used by the Public Utility Commission to establish Efficiency Vermont 3-year budgets and goals. (2016-2017)
 - ***DesignLights Consortium (DLC) LED Qualification Program***. Contributed toward the concept, launch, and growth of the DLC LED qualification program, in collaboration with Northeast Energy Efficiency Partnerships (NEEP) and other regional utilities. Acted as a leading technical advisor on specification development, program design, and strategic planning. (2010-2016)
 - ***Vermont Efficiency Excellence Network***. Aided in the design and launch of the Efficiency Excellence Network for Efficiency Vermont trade allies. Helped establish trade group participation criteria, aided in trade ally recruiting, and delivered programmatic and technical training. (2013-2016)
 - ***Midstream Lighting Program***. Contributed to the design of, and eventually administered, the nation's first commercial lighting midstream program. Continuously expanded and evolved the program to keep pace with new technology developments and market changes. Facilitated distributor relationships and grew participation to include 100% of Vermont electrical distributors. (2009-2016)
 - ***Lighting Design Program***. Created a program that pairs Vermont commercial customers with professional lighting designers on retrofit projects. The resulting energy savings per project averaged 50% higher compared to typical lighting retrofits. With professional guidance,



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projects utilized the most efficient lighting equipment, light levels were optimized for the task, and lighting controls were used extensively. (2010-2016)

- ***LED Direct Install Program.*** Designed and launched an LED direct install program for small and medium businesses in Vermont. Targeted customers who were in capacity constrained areas of the electric grid in an attempt to avoid costly infrastructure investments. Responsible for RFP management, contractor selection, budgeting, and performance management. (2013)