



## CHRISTOPHER NEME, PRINCIPAL

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### EDUCATION

M.P.P., University of Michigan, 1986  
B.A., Political Science, University of Michigan, 1985

### EXPERIENCE

2010-present: Principal, Energy Futures Group, Hinesburg, VT  
1999-2010: Director of Planning & Evaluation, Vermont Energy Investment Corp., Burlington, VT  
1993-1999: Senior Analyst, Vermont Energy Investment Corp., Burlington, VT  
1992-1993: Energy Consultant, Lawrence Berkeley National Laboratory, Gaborone, Botswana  
1986-1991: Senior Policy Analyst, Center for Clean Air Policy, Washington, DC

### PROFESSIONAL SUMMARY

Chris Neme leads a variety of consulting projects for clients across the United States, Canada, and Europe. He specializes in analysis of markets for energy efficiency measures and the design and evaluation of programs and policies to promote them. Prior to co-founding Energy Futures Group, he served as Director of the Vermont Energy Investment Corporation's 30-person consulting division. During his 20+ years in the energy efficiency industry, Mr. Neme has conducted or critically reviewed analyses of efficiency potential in ten states; reviewed or developed efficiency programs in more than 25 states and provinces and in Europe; and defended expert witness testimony before regulatory commissions in ten different jurisdictions. Mr. Neme has led training courses on the elements of good efficiency program design and published/presented assessments of efficiency markets, programs and policies through a variety of publications, conferences, Consortium for Energy Efficiency Committees, ENERGY STAR working groups and other forums. He recently served as Co-Chair of NEEP's EM&V Research and Evaluation Committee.

### SELECTED PROJECTS

- ***Northeast Energy Efficiency Partnerships.*** Managing Regional EM&V forum project to develop savings estimates for emerging technologies. Also, leading project to assess national best practices and develop policy guidance on the use of efficiency to defer T&D investments. (2009 to present)
- ***Regulatory Assistance Project - U.S.*** Providing on-going technical support on efficiency policy and program design, including drafting of a report on the U.S. experience using efficiency programs to defer T&D system investments; providing technical assistance to regulators in several states; and providing technical support on efficiency program planning and evaluation to Energy Foundation grantees across the U.S. (2010 to present)
- ***Natural Resources Defense Council (Illinois & Michigan).*** Critically reviewed multi-year DSM plans filed by Illinois and Michigan utilities. Drafted and defended regulatory testimony on critiques. Represent NRDC in monthly stakeholder-utility meetings to discuss program designs, evaluation priorities, draft evaluation reports, cost-effectiveness screening, market-based efficiency procurement policies and other related topics. Also, assisting with the development of strategy for maximizing the use of efficiency to cost-effectively address EPA's proposed 111(d) regulations of carbon emissions from power plants. (2010 to present)



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- ***Green Energy Coalition (Ontario)***. Representing a coalition of environmental groups in various regulatory proceedings. Present recommendations on DSM policies (including integrated resource planning when considering pipeline expansions), critically review and negotiate with utilities on proposed DSM Plans, serve (elected by other non-utility stakeholders) on utility Evaluation/Audit Committees which oversee an annual savings verification process and evaluation planning, and defend expert witness testimony. (1993 to present)
- ***Regulatory Assistance Project - Europe***. Providing on-going technical support on efficiency policy and program design to RAP and its partners in the United Kingdom, Germany, and other countries. Reviewed draft European Union policies on Energy Savings Obligations, EM&V protocols and other related issues. Drafted a policy brief on design considerations for efficiency feed-in-tariffs, a report on bidding of efficiency resources into capacity markets, and a roadmap for achieving deep retrofits in half of the residential building stock. (2009 to present)
- ***Vermont Public Interest Research Group***. Conducted comparative analysis of the economic and environmental impacts of fuel-switching from oil/propane heating to either natural gas or super-efficient, cold climate electric heat pumps. Filed regulatory testimony on findings. (2014)
- ***New Hampshire Electric Co-op***. Led assessment of the co-op's environmental and social responsibility programs' promotion of whole building efficiency retrofits, cold climate heat pumps and renewable energy systems. Presented recommendations to the co-op Board. (2014)
- ***National Association of Regulatory Utility Commissioners (NARUC)***. Assessed alternatives to basing state energy efficiency goals on first year savings to eliminate disincentives to invest in longer-lived (but often more expensive) measures and programs. Work was ultimately for the Michigan Public Service Commission and was used by Commission staff to establish lifetime savings metrics for utility programs it regulates. (2013)
- ***California Investor-Owned Utility***. Senior advisor on EFG project to compare the cost of saved energy across ~10 leading U.S. utility portfolios. The research sought to determine if there are discernable differences in the cost of saved energy related to utility spending in specific non-incentive categories, including administration, marketing, and EM&V. (2013)
- ***Green Mountain Power***. Helped develop new program to introduce ultra-efficient cold-climate heat pumps to Vermont residential and small business markets. (2012-2013)
- ***Ontario Power Authority***. Supported staff workshop on integrated resource planning for addressing transmission and distribution (T&D) system reliability needs and the role efficiency can play in deferring T&D investments. Also presented assessment of future efficiency policy and program trends for OPA's Advisory Council on Energy Efficiency. (2012-2013)
- ***Ohio Sierra Club***. Filed and defended expert witness testimony on the implications of not fully bidding all efficiency resources into the PJM capacity market. Also critically reviewing First Energy's and other utilities' multi-year DSM plans. (2012)
- ***Regulatory Assistance Project – Global***. Assisted RAP in framing several global research reports. Co-authored the first report – an extensive “best practices guide” on government policies for achieving energy efficiency objectives, drawing on experience with a variety of policy mechanism employed around the world. (2011)



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### **SELECTED PUBLICATIONS**

- “The Resource Value Framework: Reforming Energy Efficiency Cost-Effectiveness Screening”, published by the National Efficiency Screening Project, August 2014 (with Tim Woolf et al.)
- “U.S. Experience with Participation of Energy Efficiency in Electric Capacity Markets”, published by the Regulatory Assistance Project, August 2014 (with Richard Cowart)
- “Alternative Michigan Energy Savings Goals to Promote Longer-Term Savings and Address Small Utility Challenges”, prepared for the Michigan Public Service Commission, September 2013 (with Optimal Energy)
- “An Energy Efficiency Feed-in-Tariff: Key Policy and Design Considerations”, 2013 ECEEE Summer Study Proceedings, pp. 305-315 (with Richard Cowart)
- “U.S. Experience with Efficiency as a Transmission and Distribution System Resource”, published by the Regulatory Assistance Project, February 2012 (with Rich Sedano)
- “Achieving Energy Efficiency: A Global Best Practices Guide on Government Policies”, published by the Regulatory Assistance Project, February 2012 (with Nancy Wasserman)
- “Residential Efficiency Retrofits: A Roadmap for the Future”, published by the Regulatory Assistance Project, May 2011 (with Meg Gottstein and Blair Hamilton)
- “Is it Time to Ditch the TRC?” Proceedings of ACEEE 2010 Summer Study on Energy Efficiency in Buildings, Volume 5 (with Marty Kushler).
- “Energy Efficiency as a Resource in the ISO New England Forward Capacity Market”, in *Energy Efficiency*, published on line 06 June 2010 (with Cheryl Jenkins and Shawn Enterline).
- “Shareholder Incentives for Gas DSM: Experience with One Canadian Utility”, Proceedings of ACEEE 2004 Summer Study Conference on Energy Efficiency in Buildings, Volume 5 (with Kai Millyard).