

Professional Summary

Chris specializes in analysis of markets for energy efficiency, demand response, renewable energy and strategic electrification measures and the design and evaluation of programs and policies to promote them. During his 25+ years in the clean energy industry, Mr. Neme has worked for energy regulators, utilities, government agencies and advocacy organizations in 30+ states, 6 Canadian provinces and several European countries. He has defended expert witness testimony in nearly 60 dockets before utility regulatory commissions in twelve different jurisdictions; he has also testified before several state legislatures.

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

Education

M.P.P., University of Michigan, 1986

B.A., Political Science, University of Michigan, 1985

Selected Projects

- **Natural Resources Defense Council (Midwest).** Critically review efficiency plans, distribution system plans, demand response plans and IRPs filed by Illinois, Michigan and Ohio utilities. Draft and defend regulatory testimony on critiques. Represent NRDC in stakeholder-utility processes governing plan and goal development and related policies. Provide technical support to collaborative efforts with utilities to design and launch non-wires alternative pilot projects. Supported development of Illinois Future Energy Jobs Act. (2010 to present)
- **New Jersey Board of Public Utilities.** Serve on management team responsible for statewide delivery of New Jersey Clean Energy Programs. Lead strategic planning; support regulatory filings, cost-effectiveness analysis & evaluation work. (2015 to present) Served on management team for start-up of residential and renewables programs for predecessor project. (2006-2010)
- **E4TheFuture.** Co-Author of 2017 National Standard Practice Manual for assessing cost-effectiveness of energy efficiency and forthcoming (2020) Manual for all distributed resources. Assisting state regulators and others in understanding and applying the Manual. (2016 to present)

- **Regulatory Assistance Project - U.S.** Provide guidance on efficiency policy and programs. Lead author on strategic reports on achieving 30% electricity savings in 10 years, using efficiency to defer T&D system investments, & bidding efficiency into capacity markets. (2010 to present)
- **Ontario Energy Board.** Serve on provincial gas DSM Evaluation Committee, advisory committee on gas efficiency potential study and advisory committee on carbon price forecast. (2015 to present) Served on predecessor utility-stakeholder evaluation committees. (2000 to 2015)
- **Green Energy Coalition (Ontario).** Represent coalition of environmental groups in regulatory proceedings, utility negotiations and stakeholder meetings on DSM policies (including integrated resource planning on pipeline expansions) and utility proposed DSM Plans. (1993 to present)
- **New Hampshire Consumer Advocate.** Filed expert witness testimony on the merits of including a non-wires alternative pilot project in the state's efficiency program plans. (2018)
- **Southern Environmental Law Center.** Critically reviewed and filed expert witness testimony on Duke Energy efficiency program plans and past year savings claims. (2018)
- **Green Mountain Power (Vermont).** Support development and implementation of GMP's compliance plan for Vermont RPS Tier 3 requirement to reduce customers' direct consumption of fossil fuels. Also led development of forecast of strategic electrification potential. (2016 to 2018)
- **Toronto Atmospheric Fund.** Helped draft an assessment of efficiency potential from retrofitting of heat pumps into electrically heated multi-family buildings. (2017)
- **Regulatory Assistance Project - Europe.** Supported efficiency policy work in Germany and the UK. Reviewed draft European Union policies on Savings Obligations and EM&V protocols. Drafted policy briefs on efficiency feed-in-tariffs and a roadmap for residential retrofits. (2009 to 2017)
- **Northeast Energy Efficiency Partnerships.** Helped manage Regional EM&V forum project estimating savings for emerging technologies, including field study of cold climate heat pumps. Led assessment of best practices on use of efficiency to defer T&D investment. (2009 to 2015)
- **Ontario Power Authority.** Managed jurisdictional scans on leveraging building efficiency labeling/disclosure requirements and non-energy benefits in cost-effectiveness screening. Supported staff workshop on the role efficiency can play in deferring T&D investments. Presented on efficiency trends for Advisory Council on Energy Efficiency. (2012-2015)
- **New Hampshire Electric Co-op.** Led assessment of the co-op's whole building efficiency retrofit, cold climate heat pump and renewable energy programs. (2014)
- **National Association of Regulatory Utility Commissioners (NARUC).** Assessed alternatives to first year savings goals to better promote investment in longer-lived measures/programs. (2013)
- **New York State Energy Research and Development Authority (NYSERDA).** Led residential & renewables portions of several statewide efficiency potential studies. (2001 to 2010)
- **Ohio Public Utilities Commission.** Senior Advisor developing a new TRM. (2009 to 2010)
- **Vermont Electric Power Company.** Led residential portion of efficiency potential study to assess alternatives to new transmission line. Testified before Public Service Board. (2001-2003)
- **Efficiency Vermont.** Served on Sr. Management team. Supported initial project start-up. Oversaw residential planning, input to regulators on evaluation, input to regional EM&V forum, development of M&V plan and other aspects of bidding efficiency into New England's Forward Capacity Market (FCM), and development and updating of nation's first TRM. (2000 to 2010)

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Selected Publications

Recommendations for Accelerating Adoption of Heat Pumps in the Ontario eMURB Sector, Toronto Atmospheric Fund, forthcoming in 2018 (with Devon Calder, Brian Purcell and Judy Simon)

National Standard Practice Manual for Assessing Cost-Effectiveness of Energy Efficiency Resources, Edition 1, Spring 2017 (with Tim Woolf, Marty Kushler, Steven Schiller and Tom Eckman)

The Next Quantum Leap in Efficiency: 30% Electricity Savings in Ten Years, published by the Regulatory Assistance Project, February 2016 (with Jim Grevatt)

Energy Efficiency as a T&D Resource: Lessons from Recent U.S. Efforts to Use Geographically Targeted Efficiency Programs to Defer T&D Investments, published by Northeast Energy Efficiency Partnerships, January 9, 2015 (with Jim Grevatt)

Unleashing Energy Efficiency: The Best Way to Comply with EPA's Clean Power Plan, Public Utilities Fortnightly, October 2014, pp. 30-38 (with Tim Woolf, Erin Malone and Robin LeBaron)

U.S. Experience with Participation of Energy Efficiency in Electric Capacity Markets, Regulatory Assistance Project, August 2014 (with Richard Cowart)

The Positive Effects of Energy Efficiency on the German Electricity Sector, IEPEC 2014 Conference, September 2014 (with Friedrich Seefeldt et al.)

Final Report: Alternative Michigan Energy Savings Goals to Promote Longer Term Savings and Address Small Utility Challenges, prepared for the Michigan Public Service Commission, September 13, 2013 (with Optimal Energy)

Energy Efficiency Feed-in-Tariffs: Key Policy and Design Considerations, Proceedings of ECEEE 2013 Summer Study, pp 305-315 (with Richard Cowart)

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)

A Comparison of Energy Efficiency Programmes for Existing Homes in Eleven Countries, prepared for the British Department of Energy and Climate Change, 19 February, 2010 (with Blair Hamilton et al.)

Recommendations for Community-Based Energy Program Strategies, Final Report, developed for the Energy Trust of Oregon, June 1, 2005 (with Dave Hewitt et al.)

Shareholder Incentives for Gas DSM: Experience with One Canadian Utility, Proceedings of ACEEE 2004 Summer Study on Energy Efficiency in Buildings, Volume 5 (with Kai Millyard)