
SUMMARY

Philippe Dunsky brings over twenty years of experience advising clients in the fields of energy efficiency, renewable energy and climate change tools and opportunities. He has extensive experience in the design and analysis of effective plans, policies, programs and opportunities, for clients ranging from electric and gas utilities to government agencies, private power producers, non-profit organizations and energy efficiency firms. Philippe couples strong analytical skills and creativity with a fundamental understanding of energy markets and environmental concerns. He brings to his work a passion for bridging the gap between economic growth and environmental sustainability.

Philippe's work has focused largely on the following areas:

- **Comprehensive Plans:** DSM portfolio reviews and preparation of full-scale EE/RE plans, including all related issues such as policies, guiding principles, portfolio design, design of individual programs and strategies, savings and cost-effectiveness analysis, benchmarking, and others. Also provided full regulatory support, including responding to interrogatories, assisting with hearings preparation, providing expert testimony, and other strategic support.
 - *Sample clients: Efficiency Maine Trust, N.J. Board of Public Utilities, Quebec Energy Efficiency Agency, NB Power, Manitoba Hydro, Efficiency Nova Scotia Corporation*
- **Program Design:** Designed numerous EE/RE programs, including: low-income retrofit (including owner and renter markets), home energy retrofit (including single- and multi-fuel), residential new construction, residential heating systems (including advanced/renewable heat), appliance turn-ins, plug load, fuel switching, small commercial retrofit, large commercial custom (comprehensive), small and large industrial, and renewable power generation.
 - *Sample clients: BC Hydro, Terasen Gas, NYSERDA, Saskatchewan Go Green Fund, City of Toronto, Hydro-Quebec, Quebec Bureau of Energy Efficiency & Innovation, Nova Scotia Power Inc.*
- **Best Practice Reviews:** Conducted numerous reviews of best practice and lessons learned from experience with a diverse set of EE/RE program and strategic areas, including: residential retrofit, new construction, energy technology innovation, low-income programs, innovative financing mechanisms, high-efficiency products and appliances, home and building energy performance labelling requirements, small

business direct install programs, large commercial custom (including negotiated approaches), behavioural (including home energy reports), small-scale renewable power, and others.

– *Sample clients: Hydro-Quebec, Efficiency Maine Trust, Efficiency New Brunswick, Terasen Gas, Long Island Power Authority, Saskatchewan Go Green Fund.*

- **Cost-Effectiveness and Market Potential:** Conducted detailed cost-effectiveness analysis for thousands of measures/building types, dozens of programs and several comprehensive plans, using the full slate of standard cost-effectiveness test procedures. Developed economic and achievable potential studies at various levels of granularity, for both energy efficiency and demand response. Also advised clients and presented to international audiences on appropriate cost-effectiveness testing methodologies, protocols, policies and algorithms.

– *Sample clients: Newfoundland and Labrador Hydro, Quebec Energy Efficiency Agency, Efficiency Maine Trust, New Jersey Board of Public Utilities, Hydro-Quebec, BC Hydro, Efficiency Nova Scotia, NB Power.*

- **Next-Generation Strategies and Opportunities:** Developed innovative programs and strategies aimed at securing savings from “next-generation” opportunities, including notably: home energy labeling, building energy performance benchmarking, innovative financing including PACE and PAYS models, community engagement strategies, small-scale renewable power, and advanced “green” heating systems. Also managed opportunity assessments for advanced technologies: solar (PV and CSP), deep-well geothermal, hydrokinetic, whole-house pellet systems, advanced biomass/biogas, and a host of others for both on- and off-grid communities.

– *Sample clients: Northeast Energy Efficiency Partnerships (NEEP), Canada Mortgage and Housing Corp., B.C. Ministry of Energy and Mines, Efficiency Nova Scotia, Quebec Energy Efficiency Agency, Center for Energy Advancement through Technological Innovation*

- **Program Evaluation:** Program evaluation assistance, including: participation in both process and impact evaluations; assessment and design of evaluation plans; counsel on evaluation planning, strategies, and approaches; methodological issues including attribution (conventional and non-conventional programs), net-to-gross (including spillover and market effects), logic models and evaluation surveys; development of evaluation protocols and savings algorithms; assessment of program-related non-energy benefits; and others.

– *Sample clients: Canadian Office of Energy Efficiency, Northeast Energy Efficiency Partnerships, Hydro-Quebec, Efficiency Nova Scotia Corporation, Efficiency Maine Trust, Equiterre.*

- **Others:** Many other advisory services including EE/RE policy, administrative models, incentive regulation, staff training, benchmarking, greenhouse gas / carbon strategies, non-energy benefits, employment impacts, and a host of others.

– *Sample clients: Ontario Power Authority, Manitoba Hydro, Efficiency Vermont, Efficiency New Brunswick, Association of Energy Service Professionals, Environment Northeast, Rio Tinto Alcan, Canada Economic Development*

Professional Experience

2004-- ***Dunsky Energy Consulting***

Founder/President of leading energy efficiency and renewable energy consulting firm. Research, analysis and strategic counsel for a broad clientele comprised of utilities, government agencies, private firms and non-profit organizations.

2004-05 ***McGill University***

Lecturer in the Faculty of Management.

1996-04 ***Helios Centre for Sustainable Energy Strategies***

Executive Director of an independent, sustainable energy think tank focused on the intersection between climate, energy solutions and market issues. Diverse clientèle including governments, consumer and environmental groups, utilities, large industry, independent power producers and First Nations.

1995-96 ***Independent Energy Consultant***

Consulting for various governmental and non-governmental bodies. Projects included design of large residential energy efficiency retrofit program and assessment of a variety of demand and supply-side options. Also named to several blue-ribbon panels.

1991-95 ***ENJEU Inc.***

Energy Director for environmental non-profit. Played a key role in conducting research as well as representation in utility consultative and collaborative processes.

Education and Teaching

- **Trainer:** DSM trainer for Association of Energy Service Professionals (AESP)
- **Lecturer:** Faculty of Management, McGill University, 2004-05.
- **Graduate Studies:** Post-Graduate Diploma – Economics, University of London (U.K.), 2002.
- **Guest lecturer:** Many university courses addressing business strategies, management, energy and the environment, including at McGill University (2003), University of Montreal-HEC (2001, 1995), University of Laval (1999), and Concordia University (1998 et 1999).

Current Projects (highlights)

Mr. Dunsky is currently responsible for several key projects including:

- Program review and design assistance for **BC Hydro**.
- Strategic assistance on issues including program design, innovative financing, regulatory and cost-effectiveness frameworks, and technical support – for **Efficiency Nova Scotia**.
- Development of a Property-Assessed Clean Energy financing model and business case for the **Quebec Association for Energy Management**, among other partners
- Assistance to **Efficiency Maine Trust** regarding a variety of topics including both quantitative analysis and strategic counsel.
- Demand response potential study and technology assessment, for **Hydro-Québec**.
- Official provider of DSM training courses, including beginner and advanced levels, for the **Association of Energy Service Professionals (AESP)**.
- Energy policy support, including assessment of leading practices in Canada, the U.S. and Europe, and identification of key policy opportunities, for the **government of Quebec**.
- Development of the province's first three-year electric DSM Plan, for **NB Power, Efficiency New Brunswick, the Government of New Brunswick and municipal utilities**.
- Contribution to the process and impact evaluations of the state of Maine's innovative **Property Assessed Clean Energy (PACE)** program
- Part of the team providing targeted DSM services, on behalf of the **Ontario Power Authority**, to the commercial buildings retail market.

Past Projects (highlights)

Throughout his consulting career, Mr. Dunsky has been responsible for hundreds of consulting projects. Below are several highlights of past projects:

In 2012

- Lead on an electric DSM potential study update for **NB Power**.
- Analytic support for **Environment Northeast** study of the macro-economic impacts (GDP, tax revenue, employment) of various DSM scenarios for four Canadian provinces.
- Assessment of the early experience with mandatory building energy performance rating and disclosure policies, for **Northeast Energy Efficiency Partnerships**

In 2011

- Economic and energy performance assessment of the dishwasher market, in support of the **Office of Energy Efficiency's** regulatory functions.
- Assessment of the costs, benefits and other implications of various levels of potential medium- and long-term energy savings requirements, for a **confidential provincial government**.
- Program evaluation best practices review, and assistance in developing an evaluation plan for the **Canadian Office of Energy Efficiency's** residential programs.

- Analytic and strategic assistance to the **Government of B.C.** regarding a potential “Pay-As-You-Save (PAYS)” financing program
- Best practice assessment, analysis and design of a small-scale renewable energy incentive strategy for the **Government of Saskatchewan’s** Go Green fund.
- Development of a residential fuel switching program for **Nova Scotia Power Inc.** focused on retrofits aimed at natural gas and wood pellet heating systems.
- Achievable potential assessment and strategic direction for a **confidential electric utility.**
- Strategic review and assessment of inherited electric DSM plans for Canada’s first-ever dedicated “energy efficiency utility”, **Efficiency Nova Scotia Corp.** Recommendations for new programs and policies to significantly enhance energy savings with a view to achieving the most ambitious targets in North America. Additional support through regulatory process.
- Design of a residential new construction program, for British-Columbia’s **Terasen Gas Co.,** to promote adoption of advanced energy efficiency and renewable energy options beyond a newly-enhanced building code requirement.
- Development of comprehensive train-the-trainer modules as well as quality control and quality assurance protocols for an **Ontario Power Authority** energy efficiency program for low-income customers.
- Strategic review and assistance to **BC Hydro** in support of its long-term residential new construction program, with a focus on both advanced energy efficiency and renewable energy options.
- Strategic assistance for **Efficiency New Brunswick** focused on redesigning and optimizing their programs aimed at both small and medium/large sized commercial, institutional and industrial customers. Portfolio-level strategic counsel as well.
- Design, implementation assistance and evaluation for the **Québec Energy Efficiency Agency’s** low-income energy efficiency pilot program.
- Assessment and development of a strategy, for the **Québec Energy Efficiency Agency,** aimed at requiring home energy evaluations and labelling at the time of sale.
- Development of a strategy to maximize direct and indirect market effects from a **confidential electric utility’s** large-scale commercial buildings program.

In 2010

- Development of the **Efficiency Maine Trust’s** first triennial energy efficiency plan addressing all fuels and sectors, including responsibility for all residential and enabling strategies.
- Measure characterization, screening and program design assistance for a **Newfoundland and Labrador Hydro** efficient products program for rural customers.
- Development of, and implementation assistance for an all-fuels residential energy efficiency program (pilot project) directed at low- and moderate-income consumers. For the **Quebec Energy Efficiency Agency.**
- Strategic review, including gap analysis and program assessments, of **Conserve Nova Scotia’s** full portfolio of energy efficiency programs.
- Assistance in the design and development of a CO2 reduction program aimed at large industrial customers, for the **New York State Research and Development Authority.**

- Strategic counsel regarding the opportunity for fuel switching and fuel choice strategies to play a role in **Nova Scotia Power Inc.**'s industry-leading electric demand-side management objectives. Including high-level opportunity analyses and recommendations for policy and regulatory frameworks.
- Assistance in the review and design (or redesign) of large-scale energy efficiency programs for **Hydro-Québec**'s commercial, institutional and industrial sector customers.
- Industrial supply chain and policy gap analysis of wind and biomass-related industries, and public policy recommendations for maximizing economic development, for the **Canada Economic Development Agency**.
- Market opportunity assessment for energy efficiency programs aimed at early retirement of inefficient refrigerators and air conditioners. For **Recyclage Ecosolutions**.

In 2009

- White paper and roadmap for Northeastern states interested in adopting mandatory building energy labelling and upgrade policies, for the **Northeast Energy Efficiency Partnerships (NEEP)**.
- Strategic evaluation of Manitoba Hydro's complete portfolio of electric and natural gas energy efficiency programs. Work includes comparative assessments of utility's major programs (all sectors combined) with leading North American practices, as well as qualitative evaluation and benchmarking of the portfolio as a whole, in order to pinpoint strengths and weaknesses. For **Manitoba Hydro**.
- Turnkey design/development of a small-business energy efficiency program for **Hydro-Québec**. Included market characterization, measure analysis and selection, review of North American best practices, definition of key strategic issues and options, and recommendations, design of management and delivery structures, risk analysis, detailed analysis and forecasting of savings, costs and cost-effectiveness, development of a logic model and evaluation plan, budget, implementation timeframe and follow-up services.
- Senior Advisor to the team tasked with developing a portfolio of energy efficiency programs and policies to help New Jersey meet its ambitious savings target of 20% by 2020. Work covered all sectors and fuels. For the **New Jersey Board of Public Utilities** (under contract with the *Northeast Energy Efficiency Partnerships*).
- Member of **Enbridge Gas Distribution**'s Energy Efficiency Audit and Evaluation Committee – counsel on evaluation and audit issues including free ridership, spillover and other net-to-gross issues.
- Opportunity study of a potential residential energy efficiency program for **Efficiency New Brunswick**. Also prepared a high-level, 10-year energy savings opportunity assessment for the province, including analysis of costs, benefits and employment impacts.
- Market analysis of opportunities for using existing renewable power assets to generate additional revenue streams through carbon credit, renewable energy and other environmental attributes. For a **confidential industrial customer**.
- Strategic counsel to the **Québec Energy Efficiency Agency** on a variety of topics, including strategic planning, portfolio design, cost-benefit tests and policies, analytic tools, and options for advanced policies. Also provided expert testimony in the Agency's first regulatory proceeding.

In 2008

- Turnkey design of an aggressive, state-of-the-art low-income energy efficiency program. Work included design of all essential program components as well as forecasts of energy savings, costs and benefits for a program aimed at all energy sources (electric, gas, oil, propane and wood). For **Hydro-Québec** with the active participation of the **Agence de l'efficacité énergétique** and of **Gaz Metro**.
- Analyses and strategic counsel aimed at increasing savings and improving the performance of a residential energy efficiency program. For **Efficiency New Brunswick**.
- Analysis and expert testimony regarding a proposed low-income energy efficiency program developed by Manitoba Hydro. **Manitoba Public Interest Law Centre**.
- Strategic evaluation of a large utility's full portfolio of energy efficiency programs, including all residential, business and institutional sector strategies. For **Hydro-Québec**.
- Assistance in development of energy efficiency training materials covering issues including estimating energy savings, the economics of energy efficiency, program design and others. For the **Association of Energy Service Professionals (AESP)**.

In 2007

- Analysis and counsel to the **Vermont Energy Investment Corporation** regarding potential costs and savings of a second refrigerator early retirement program for northeastern U.S. states.
- Critical assessments of an array of energy efficiency plans and proposals from the Ontario Power Authority's Conservation Bureau. Also named to high-level OPA advisory group. For the **Ontario Power Workers Union**.
- Staff training on key energy efficiency concepts, including market barriers, design and planning principles, cost-effectiveness tests and potential studies, among others, for **Efficiency New Brunswick**.
- Various scopes of work regarding primarily best practices in low income energy efficiency programs, as well as presentation to roughly 100 **Hydro-Québec** staff on innovative energy efficiency strategies.

In 2006

- Review of the State of Maine's draft energy efficiency plan, including high-level issues and approaches, as well as analysis of new program opportunities involving front-loading washers, efficient computer power supplies and heat pumps, for the **State of Maine Office of the Public Advocate**.
- Assessment of electric planning reliability issues arising from energy efficiency objectives developed by the OPA and built into integrated resource planning scenarios. Analysis of planning risks included review of planned/forecast savings over time in more than a dozen regions. For **Elenchus Research Associates**.
- Comparative analysis of medium-term energy savings goals from a variety of North American and European jurisdictions for all fuel types and sectors, with a view to assisting the **Quebec Energy Efficiency Agency** in adopting 10-year savings targets.
- Led a series of thematic meetings for **Hydro-Québec** senior staff aimed at developing the utility's policies and strategies with regard to a variety of energy efficiency related issues, including : rates, market barriers, incentive tools, emerging technologies, savings targets,

success indicators, distribution of roles and responsibilities among parties, governance and implementation structures, and transition strategies.

- Market and incentive program opportunity assessment for encouraging adoption of efficient computer power supplies. Included market characterization, economic evaluation including cost-effectiveness screening, energy and CO₂ savings forecasts, and design of a high-level market strategy. For **Natural Resources Canada (Office of Energy Efficiency)**.
- Held focus groups in order to identify strengths and weaknesses of technical and strategic aspects of a new construction energy efficiency program aimed at multi-unit residential buildings. Jointly for the **Quebec Energy Efficiency Agency and Hydro-Québec**.

In 2005

- Best practice study for **Hydro-Québec** of government and utility programs aimed at accelerating proper installation of ground-source heat pumps (GSHP). Included review of Canadian, U.S. and European practices.
- Pre-feasibility study regarding a possible centre for excellence in CO₂ emission reduction technologies. Included assessment of technologies and opportunities developed or under development by Quebec-based firms, as well as policy gap analysis. For the **Quebec Metro Technology Park**.
- Economic and GHG analysis, pre-feasibility study and development of an energy efficient computer transformer market transformation program in Canada, for **Ecos Consulting**.
- Detailed review of fund's portfolio of 20 gas DSM programs, including quantitative and qualitative assessment of each program's costs and benefits, as well as review of each program's incentive levels, incentive design, market strategy and target clientèle. For Gaz Metro's **Energy Efficiency Fund**.
- In-depth review and assessment of an electric utility's \$1 billion energy efficiency plan, including program-by-program best practices gap analysis, benchmarking, identification of new opportunities and 75 recommendations for improved performance. Also included expert testimony before regulatory board. For an ad-hoc **coalition of municipal, business, consumer, environmental and industrial stakeholders**.
- International benchmarking of models for organization and delivery of energy efficiency services, including review of models in Canada, the U.S., Europe and Australia. For **Equiterre**.

In 2004

- Review of North American "best practices" for select residential energy efficiency programs. Also review of programs aimed at encouraging commercialization of innovative and emerging energy efficiency technologies or strategies. For **Hydro-Québec**.
- Assessment of the potential for accelerated electrical energy efficiency gains in Québec. Included development of programs in the residential, commercial/institutional and small and medium industrial sectors, as well as detailed cost analyses. Also testimony at a regulatory hearing. For an **ad-hoc coalition of environmental stakeholders**.
- Comparative assessment of the economic, environmental and labour impacts of a series of supply and demand-side options, namely a combined-cycle power plant, wind power development scenarios and accelerated energy efficiency programs. Also testimony at a regulatory hearing. For an **ad-hoc coalition of environmental and consumer groups**.

Pre-2004

Prior to founding Dunsky Energy Consulting, Philippe Dunsky led consulting projects in a variety of capacities in the fields of energy efficiency, renewables and climate change. Below are select examples of work.

- 1997-2003: Expert testimony in a dozen regulatory hearings, addressing primarily utility energy efficiency plans and programs, as well as renewable energy strategies and performance-based regulation. For a broad array of economic, social and environmental stakeholders.
- 2003: Review and analysis of policies and strategy options for meeting climate change commitments under the Kyoto Protocol, for the **Quebec Environment Department**.
- 2003: Establish methodology to identify all existing and planned (10 years out) renewable energy projects in Canada, the U.S. and Mexico. For the **North American Commission on Environmental Cooperation**.
- 2003: Member of expert working group dealing with the linkages between fiscal policy and industrial energy efficiency investments. For the **National Round Table on the Economy and the Environment**.
- 2002-03: Supervised staff work on U.N.'s Clean Development Mechanism (Kyoto Protocol mechanism). Mandates included opportunity studies in a variety of African countries, as well as defining obstacles to successful project completion. For a **variety of clients**.
- 1998-2002: Consulting and strategic counsel in the context of several Parliamentary Committee mandates to examine Hydro-Quebec's successive strategic plans (1997, 1999, 2002). Examined draft plans, provided support to MPPs, thematic training sessions, analysis and thematic reports, preparing questions, live support during hearings, and drafting final reports. Focus on energy efficiency, new energy technologies, R&D, market competition/deregulation, demand forecasts and capital investment plans. For the Quebec Parliament's **Commission on Labour and the Economy**.
- 1991-2002: Participation in a vast array of consultative or negotiating committees with electric and gas utilities, addressing primarily energy efficiency plans, potential studies, performance-based regulatory regimes, resource planning and rate structures. For **a broad spectrum of stakeholder groups**.
- 2001: Design of energy efficiency programs aimed at improving building envelopes of existing, natural gas heated homes. For **Gaz Metro's Energy Efficiency Fund**.
- 2000-01: Two studies quantifying the costs and benefits, as well as labour and environmental impacts, of a proposed Canada-wide energy efficiency program for low-income customers. For **Equiterre, Green Communities Association, and Vivre en Ville**.
- 1996-2001: Training for a variety of clients on the principles and approaches toward and opportunities for energy efficiency. Also similar training addressing renewable energy, climate change strategies and opening electricity markets to competition. **Government of Canada, other clients**.
- 2000: White paper for utility regulators on appropriate treatment of energy efficiency and DSM. Addressed market barriers, screening tests, regulatory principles and models, integrated resource planning and incentive mechanisms under competitive market structures. For the **Quebec Energy Efficiency Agency**.
- 1998: Strategic counsel and analysis for an independent wind power developer, including analysis of value-added revenue opportunities from budding environmental attribute markets. For **NEG Micon Canada**.

- 1996: Designated Large Project leader within historic Premier's Economic Summit (Business and Jobs Committee). Responsible for assessing value of large project proposals in the energy and environmental sectors, and providing support to developers throughout the process.
- 1995-96: Lead on design of large-scale, community-based, multi-fuel energy efficiency program aimed at residential retrofits. Work included coordinating a team of Energy Department staff, program design, cost-benefit analysis, supervision of a labour impact study, assessment of forecast environmental benefits, and public presentation of the program jointly with the Quebec **Minister of Natural Resources**.
- 1995-96: Named by the Minister of Natural Resources to a **blue-ribbon panel** tasked with revamping the province's energy policy. Tasks included holding public hearings in 10 communities, review of some 300 oral and written briefs, fact-finding missions, 50 panel meetings, negotiation of a final, consensus report including nearly 200 recommendations, the most important of which were quickly translated into official provincial policy.
- 1995: Main author of a technical/economic analysis of past and future trends in wind energy and passive solar technologies. Also led a team in defining the group's positions on energy and transportation issues, recorded in a three volume briefing. For **Environnement Jeunesse**.
- 1995: Development and write-up of government agency's policy on energy and transportation issues. For **Government of Québec's Permanent Youth Council**.

Published Articles and Book Chapters (partial list)

- 2012 "Establishing Savings Algorithms and Evaluation Procedures for Emerging Technologies and Innovative Program Approaches". McCowan, Dunsky, Livingston, and Sutter, in *American Council for an Energy Efficient Economy 2012 Summer Study Proceedings*.
- 2012 "DSM Cost-Effectiveness: When the TRC Harms Efficiency, What's Next?", *American Council for an Energy Efficient Economy*. Dunsky and Boulanger, in *American Council for an Energy Efficient Economy 2012 Summer Study Proceedings*.
- 2010 "Nobody's Perfect: Choosing (and Improving) Models for Energy Efficiency Program Administration". Dunsky and Lindberg, in *American Council for an Energy Efficient Economy 2010 Summer Study Proceedings*.
- 2010 "Small Goes BIG: Large-Scale Savings from Small Commercial Customers", Dunsky and Gobeil, in *American Council for an Energy Efficient Economy 2010 Summer Study Proceedings*.
- 2010 "Transforming Markets with Mandatory Building Energy Labeling". Dunsky, Lindberg and Fasey, in *American Council for an Energy Efficient Economy 2010 Summer Study Proceedings*.
- 2010 "Mandatory Energy Disclosure for Existing Homes and Buildings: A New Policy Opportunity". Dunsky and Lindberg, in *Association of Energy Service Professionals (AESP)*.
- 2008 "The Current Electrical Revolution: Portrait of a Newly Emerging Architecture in Industrialized Countries", *SAPIENS*, Vol. 1, Issue 2, 2008. Sole author.
- 2006 "Transforming the Market for Efficient Power Supplies: Opportunities Assessment and Early Experience in Canada", ACEEE 2006 Summer Study – Proceedings, August 2006. Lead author, with I. Saint-Laurent, K. Dunn and V. Fulbright.
- 2006 "Québec's Economic Energy Efficiency Potential: Results of a Utility-Stakeholders Working Group Process", ACEEE 2006 Summer Study – Proceedings, August 2006. With B. Gobeil and M. Parent.
- 2004 "The Electricity Revolution Underway: Portrait of an Emerging New Architecture in Industrialized Nations", *Vertigo*, Spring 2004. Sole author. [French]
- 2003 "Gas Turbines and Renewable Energy: Comparing Apples with Apples", *Cahiers de l'énergie (Energy Perspectives)*, October 2003. Contributor, with M. Bolinger, R. Wisser and W. Golove.

- [French]
- 2003 "Canadian Industry and the Kyoto Protocol", Cahiers de l'énergie (Energy Perspectives), April 2003. Lead author, with Patrick Henn. [English and French]
- 2002 "What Energy Future? – Understanding the current transition to better plan for the future", Cahiers l'énergie, December 2002. Sole author. [French]
- 2001 "Lessons from California's Energy Crisis", CHOC (magazine of the Quebec Electricity Industries Association), June 2001. Sole author. [French]
- 2001 "California's Power Crisis: The Demand Side of the Equation", in Inside Energy (U.K.), April 2001. Sole author. [English]
- 2001 "Lessons from the California Power Crisis", simultaneously in PowerOnline and ElectricNet, Feb. 20, 2001. Sole author. [English]
- 2000 "1920-1995 and Beyond: Trending Downwards", in Cogeneration and On-Site Power Production, James and James Science Publishers, no 6, Nov.-Dec. 2000, 29-34. Sole author. [English]
- 1999 "Keeping the Promise: Making Renewable Portfolio Standards Work", in WindPower '99, Proceedings of the American Wind Energy Association 25th Annual Conference, Paper #27, Chapter 6A: Economics. Sole author. [English]
- 1998 "Residential DSM Programme Development and Implementation – Lessons from PRIME", in Energy Efficiency in a Competitive Environment, Proceedings of the American Council for an Energy Efficient Economy (ACEEE) 1998 Summer Study on Energy Efficiency in Buildings, Panel on International Collaborations and Global Market Issues, Volume 5, pp. 5.61-5.72. Sole author. [English]
- 1998 "Challenges for Effective Competition in Large Hydro-Dominated Markets – The Case of Québec", in Deregulation of Electric Utilities, Chapter 5 (pp. 101-117). Norwell, Mass and Dordrecht, Netherlands: Kluwer Academic Publishers, 1998. Topics in Regulatory Economics and Policy, vol. 28. Lead author, with P. Raphals. [English]
- 1998 "Toward Improved Reliability – Lessons from the Ice Storm", in L'Énergie au Québec – Quels sont nos choix?, Chapter 5 (pp. 85-98). Montreal, Qc: Les éditions écosociété, 1998. Lead author, with P. Raphals. [French]
- 1997 "New Renewable Energy Technologies", in Le mercure solaire, published as series in successive editions over three years. Sole author. [French]
- 99
- 1996 "Perspectives for Wind Power in Quebec: Past and Future Trends and Cost Forecasts", in Energy Studies Review, Volume 7, No. 3, pp. 276-291. Sole author. [French]
- 1996 "Toward a Demand-Side Future", in Profiting from Energy Efficiency, Proceedings of the American Council for an Energy Efficient Economy (ACEEE) 1996 Summer Study on Energy Efficiency in Buildings, Panel on Energy and Environmental Policy, Volume 9, pp. 9.39-9.48. Sole author. [English]
- 1996 "Against the Tide", in Canadian Energy Markets, October-November 1996, online version. Sole author. [English]
- 1995 "Playing With Fire", in Hydro-Québec – Autres temps, autres défis, University of Quebec at Montreal's annual Series on Leaders of Contemporary Québec, pp. 267-279. Montreal: Presses de l'Université du Québec, 1995. Sole author. [French]
- 1994 "Sustainable Energy Development in Quebec – Opportunities and Outlook", in Le développement durable, Proceedings of Hydro-Québec conference, 15 p. (unnumbered). Sole author. [French]
- 1994 "Playing with Fire: Hydro-Québec Faces Serious Risk by Following its Current Path. It Could Still Change Course", in Perspectives, vol. 6, no. 2, February-March, pp. 9-11. Sole author. [English]
- 1994 "E4=Energy, Economy, Environment, Ethics", in L'ENJEU, vol. 13, no. 3, p.45. Sole author. [French]

Public Speaking

- 2012 **Association of Energy Service Professionals (AESP):** “Screening Energy Efficiency: Best Practices” webinar panel.
- 2012 **American Council for an Energy Efficiency Economy (ACEEE):** “When the TRC Harms Efficiency, What’s Next?”.
- 2012 **AESP Summer Conference:** “Will New Codes & Standards Kill Efficiency?”
- 2011 **Americana – 9th Biennial International Environmental Technology Trade Show & Conference:** “An Energy Rating for Every Building – Mandatory Labelling for Commercial Buildings”.
- 2010 **Fourth National Geoeconomic Technical and Policy Forum (CGC):** “Unleashing Demand through Innovative Financing Strategies”.
- 2010 **American Council for an Energy Efficiency Economy (ACEEE):** several speaking engagements.
- 2010 **Association of Energy Service Professionals (AESP) 20th Conference:** “Mandatory Energy Disclosure for Existing Homes and Buildings: A New Policy Opportunity”
- 2009 **Affordable Energy Conservation Forum:** “Lessons for (Private) Low-Income Home Energy Efficiency Programs”
- 2009 **Quebec Association for Energy Management:** “Leadership in Energy Efficiency in North America”
- 2008 **Time for Action:** “Energy Efficiency for Private Low-Income Homes”
- 2008 **Quebec Energy Efficiency Public Consultation (luncheon keynote):** *The Challenge of Leadership*
- 2007 **Canadian Association of Members of Public Utilities Tribunals (CAMPUT):** *Utilities and the Environment: What More Should Be Done?*
- 2007 **McGill University Conference on Business Sustainability:** *The Challenge of Energy*
- 2006 **Unisfera Conference on Business and Sustainability:** *Negawatts: From Fantasy to Reality*
- 2006 **American Council for an Energy Efficient Economy (ACEEE):** “Transforming the Market for Efficient Power Supplies: Opportunities Assessment and Early Experience in Canada”
- 2006 **Quebec Association for Energy Management (20th Congress):** “Coming Soon: Efficient PCs”, and “Energy Policy: What Role for Efficiency?”
- 2006 **Association of Québec Economists (guest luncheon speaker):** “The Energy Challenge: Getting More with (alot) Less”
- 2003 **CLD Manicouagan (guest luncheon speaker):** “Energy in the 21st Century”
- 2003 **Canadian Association of Members of Public Utilities Tribunals (CAMPUT):** “Kyoto: Implications for Utility Regulation”
- 2001 **Circle of International Affairs:** “The Future of Energy in North America”
- 2000 **Canadian Gas Association (CGA):** “Convergence of Technology, Market and Societal Forces: Implications for the Gas Industry”
- 2000 **Canadian Institute of Energy:** “Distributed Generation: Needs and Opportunities, Promise and Concern”
- 1999 **Canadian Electricity Association (CEA):** “Standing at the Crossroads: Early Thoughts on a Regulatory Agenda for Distributed Energy Technologies”
- 1999 **American Wind Energy Association (AWEA):** “Exploring the Limitations of the Renewables Portfolio Standard”
- 1999 **Canadian Association of Members of Public Utilities Tribunals (CAMPUT):** “Sustainability and Competitive Energy Markets”
- 1998 **Association of Québec Biologists:** “Competitive Markets and New Energy Sources: Synergies”
- 1998 **Canadian Electricity Association (CEA):** “Restructuring and the Environment: Running the Treadmill”
- 1998 **Institut for Environmental Sciences:** “Energy Sustainability in an Era of Uncertainty : A Role for Regulators”
- 1997 **International Workshop on Deregulation of Electric Utilities:** “Challenges for Competition in Large Hydro-Dominated Markets”

- 1997 **International Research Institute:** *“Emerging Energy Architectures and the Role of Distributed Power”*
- 1996 **American Council for an Energy Efficient Economy (ACEEE):** *“Toward a Demand-Side Future”*

Advisory Committees and Boards

- 2002-12 Green Municipal Fund – Governing Council (\$650M revolving loan fund)
- 2009-12 Green Municipal Fund – Investment Committee (oversight of \$650M assets)
- 2010-11 B.C. Green Landlords Project – Advisory Committee
- 2009-12 Parta Sustainable Solutions – Board of Directors
- 2004-10 Quebec Action Fund for Sustainable Development – Board of Directors
- 2008-09 Enbridge Gas Company – DSM Evaluation and Audit Committee
- 2006-08 Unisfera International Centre – PlanetAir Advisory Committee
- 2005-07 Sustainable Development Investment Fund (venture cap fund) – Vice-President
- 2006 Quebec Energy Efficiency Agency – Board of Directors
- 2005-06 Environmental Laws Revision Panel – Member (named by Environment Minister of Quebec)
- 1999-05 Ethical Investment Group – Co-president, President of Stock Trading Committee
- 2003-04 National Round Table on the Environment and the Economy – Energy Efficiency Fiscal Strategies committee
- 1996-04 Helios Centre – Board of Directors
- 1998-00 Mile End Community Energy Efficiency Project – Expert Advisory Committee
- 1998-00 Daphna Foundation – Board of Directors
- 1999 New York Wind Project – Advisory Committee
- 1998 EcoNeighbourhood Prize (City of Montréal) – Member of the Jury
- 1995-98 Mauricie Community Energy Efficiency Centre – Expert Advisory Committee
- 1997-98 Regional Environment Council of Montreal – Board of Directors
- 1996 Premier’s Economic Summit, Business and Jobs Committee – Head of Large Energy and Environment Projects
- 1995-96 Public Debate on Energy – Panel Member
- 1995-97 Quebec Climate Change Coalition – Board of Directors
- 1994-97 Environnement Jeunesse – Board of Directors
- 1993-94 Hydro-Quebec – Advisory Committee on Public Participation
- 1993-94 Hydro-Quebec – Advisory Committee on Role of Electricity in Industrial Development
- 1992-93 Hydro-Quebec – Advisory Committee on Integrated Resource Planning (IRP)