

ASSOCIATE

Russ is an Associate with 34-year experience in the Ontario government including 13 years at the Ontario Energy Board during which period he was involved with every area of electricity regulation. He was the Board’s subject matter expert on smart grid and assists clients on smart grid. Prior to joining the Board, Russ was the Ministry of Finance’s manager of environmental economics and was a senior adviser on environmental policy at Cabinet Office to both the Rae and Harris administrations. Russ has an undergraduate degree in chemistry and graduate (masters) degrees in economics and environmental studies. Besides smart grid, he provides advice on such matters as: retail settlement, conservation and demand management and Chapter 5 of the OEB Filing Requirements for electricity distributors.

PROFESSIONAL OVERVIEW

Ontario Energy Board **October 2004 –
December 31, 2013**

Senior Advisor, Compliance/Regulatory Policy

- Providing advice and administrative support to Board members on electricity and natural gas issues.
- Support for Board Decision on the Gas Distribution Access Rule and consultations on natural gas Service Quality Requirements (SQR)
- Staff review of the Ontario Power Authority Integrated power System Plan
- Support to Board on the first Ontario Power Generation Prescribed Facilities application
- Staff Discussion Paper on Smart Grid.

Ontario Energy Board **October 1999 - October 2004**
Advisor, Energy Licensing

- Providing advice and administrative support to the Director of Licensing and Board members on electricity licensing issues.
- A report to the Board on Market Readiness
- Analysis and advice leading to the issuing of a Generating Licence to Bruce Power Inc.

- Coordination of the Board's authorization of Electronic Business Transactions (EBT) standards

Ministry of Finance
Senior Economist, Fiscal Planning Branch

October 1998 - October 1999

- Providing expert advice on the Ontario Government's Fiscal Plan on capital spending, energy, science and technology, environment and natural resources
- Assisted in the preparation of the 1999 Ontario Budget
- Designed and implemented a new database for capital project management

Ministry of Finance
Senior Economist, Structural Economics Branch

July 1996–October 1998

- Providing economic advice on utilities, regulated industries and environment and energy issues, in particular, the financial and economic aspects of electric power system restructuring
- Major achievements with the Tax Policy Branch
- Designed, developed, tested and applied a large financial and economic spreadsheet for the analysis of options for restructuring Ontario Hydro
- Provided advice and technical support for the preparation of the 1997 White Paper on electricity system restructuring and the subsequent introduction and passage of Bill 35, the Energy Competition Act
- Provided advice as MOF observer of the Market Design Committee.

Cabinet Office (Secondment)
Senior Advisor

September 1993–July 1996

- Providing advice on environmental, energy and local services policy to the Premier and to members of the Policy and Priorities Board (P&P) of Cabinet
- Co-authored the final report of the secretariat of the Cabinet Committee on Environment Policy
- Prepared major Briefing Paper for Premier Rae on electric power restructuring
- Assisted in the government transition following the June 1995 election
- Assisted in setting up the Restructuring and Local Services Subcommittee of P&P(Jan-Feb 1996)

University of Toronto, Innis College
Adjunct Professor (Part-Time)

August 1994 - Present

- Teaching fourth-year undergraduates courses on Environmental Thought and Public Policy and Environment.

York University, Faculty of Environmental Studies
Adjunct Professor (Part-Time)

January 1993–June 1993

- Taught graduate students a course in the Economics of Pollution and Resource Depletion (1993) and undergraduates on Energy and Environment (2005)

Ministry of Treasury and Economics (Now Ministry of Finance)

September 1990–September 1993

Assistant Manager, Economy and Environment, Sectoral and Regional Policy Branch

- Providing advice on the economic aspects of environmental policies and programs; liaison with government Ministries and agencies and external groups
- Research on economics and environment
- Supervision of junior economists
- Wrote papers on the Economics of Solid Waste Management in Ontario and the Greater Toronto Area (which evaluated the Kirkland Lake proposal) and a Framework for Evaluating the Economic Benefits of Environmental Measures

**Office of Greater Toronto Area
Special Assignment**

May 1991–June 1991

- Assisted in the preparation of a Cabinet Submission setting up the Interim Waste Authority

Ministry of Environment and Energy

September 1991–December 1991

Financial and Economic Advisor (short term, part-time secondment), to the Assistant Deputy Minister (ADM), Waste Reduction Office

- Advice to the ADM during negotiations with the Chief Administrative Officers of the GTA municipalities and analysis of GTA waste management options
- Development and documentation of a spreadsheet model for the economic and financial analysis of waste management options in the Greater Toronto Area; and, a report, “The Economics of Solid Waste Management in the Greater Toronto Area”.

**Ontario Ministry of Industry, Trade and Technology (now Economic
Development, Trade and Tourism).**

March 1987–September 1990

Senior Policy Analyst, Technology Policy Branch

- Analysis and coordination of science and technology policy
- Administration of the Technology Centres program
- Wind-down and privatization of Ontario's Technology Centres program, including; preparing the Cabinet submission on the sunset review of the Technology Centres, the hiring and supervision of agents for the privatization of three centres
- Assistance in setting up the Centres of Excellence and the conduct of the first peer review of the Centres

Ontario Ministry of Energy (MEny)

November 1984–March 1987

Economist, Energy Economics and Forecasts Section

- Analysis of economic costs, benefits and impacts of a variety of energy issues and the preparation of energy price and demand forecasts
- Complete programming, data analysis and documentation for anew MEny residential energy demand model in LOTUS

- Supervision and documentation of the transfer of all of MEny's energy demand models from an IBM mainframe to an NCR (UNIX) minicomputer
- Supervision of the recalibration of MEny's commercial sector energy demand model
- A major study on the natural gas consumption of Toronto houses
- Supporting analysis for Ontario's new Energy Efficiency Act

Ministry of Energy

January 1984–November 1984

Policy Analyst, Alternative and Renewable Energy Group

- Analysis of social and economic impacts of policies and programs and the formulation of strategies to promote alternative and renewable energy technologies
- Wrote report on "The Analysis of Policy Instruments for the Commercialization of Alternative and Renewable Technologies".

Ministry of Energy

March 1981–January 1984

Project Leader, Biomass, Alternative and Renewable Energy Group

- Evaluation of the feasibility of biomass energy projects and the management of same, including the supervision of consultants, from feasibility to monitoring of the operational system
- Supervision of Arthur D. Little study "An Economic Assessment of Biomass Energy Systems"
- Management of the Grenville Christian College woodburning demonstration project to the end and the Chapleau woodwaste cogeneration project to the commercial venture stage

Ontario Ministry of the Environment (MOE).

March 1978–March 1981

Environmental Analyst, Environmental Approvals Branch

- Administration of the Environmental Assessment Act (EAA) and policy advice related to the Royal Commission on Electric Power Planning (RCEPP)
- Government review coordinator, under the EAA, for major transportation projects and for Ontario Hydro's "class" EA on minor (less than 500kV) transmission facilities, the latter including "Construction and Site Restoration Guidelines"
- Development of the first Manual of Administration for the EAA
- Organizer of a Workshop to develop a General Regulation applying the EAA to the private sector
- Liaison with the Federal-Provincial task force on energy and environment for the Canadian Council of Resource and Environment Ministers; and, completion of MOE's submissions to RCEPP

New Conserver Society Notes

November 1977–March 1978

Co-editor

- Resigned when made a public servant

Ontario Ministry of the Environment (Environmental Approvals Branch).

October 1976–March 1978

Consultant on Energy Policy

- Assistance in the preparation of submissions to RCEPP and policy analysis and advice on the environmental implications of energy issues
- MOE submissions to RCEPP (see Publications, below).

York University, Faculty of Environmental Studies
Graduate Assistant to Professor W. Leiss

May 1976–September 1976

- Preparation of a bibliography on politics and ecology

University of Toronto, Lash Miller Laboratories
Demonstrator of First and Second-year Chemistry

September 1974–October 1976

- Supervision and assistance of students and marking of tests and examinations

University of Toronto, Lash Miller Laboratories
Laboratory Technician

July 1974–October 1976

- Maintenance of laboratory, running of infra-red, ultra-violet and Nuclear Magnetic Resonance (NMR) spectrometric analysis
- Preparation of chemical precursors and analytical and general assistance to Professor B. Bosnich

PUBLICATIONS

October 2013	"Hidden Predictability: mining price signals in Ontario's electricity market" with Bunli Yang Public Utilities Fortnightly , 22-26
October 2005	"Lost economies of integration and the costs of creating markets in electricity restructuring: evidence from Ontario" The Electricity Journal (TEJ) , 18(8), 45-54.
April 2005	"Find the public good: shedding light on a bulk electricity card trick" The Electricity Journal (TEJ) , 17(9) November 2004, 61-67 and "Excuse me but your false analogy is showing" TEJ 18(3), 3-5.
2000	"Nature's Wages:A Factor-based Alternative Approach to Environment-Economy Integration" New Zealand Economic Papers , 34(1), 111-128.
Present	Stepping Out of the Clockwork Garden: Environmental Thought in the New Millennium, (in progress).
May 1978	"The Conserver Society and Energy Policy: a theoretical framework for analysis", Major Paper for MES degree, York University

April 1977 – January 1979	"Submission to the Royal Commission on Electric Power Planning, Debate Stage Hearings, Parts I-VI", Ontario Ministry of the Environment, co-author.
Spring 1978	"Nuclear Power: The Year in Review", The New Conserver Society Notes, Vol 1, No. 1, p. 34; and, "What Happened at the Harbour Castle Hilton?", op. cit., p.7.
March 1979	"Review of the Proposed Airport at Deer Lake", Ontario Government Review
April 1980	"Review of the Proposed Sudbury Northwest Bypass", Ontario Government Review
April 1980	"Review of the Proposed Long-Term Improvements to the Highway 144 Corridor between Sudbury and Levack", Ontario Government Review
April 1980	"Review of Kasabonika Airport", Ontario Government Review
May 1980	"Review of the Remote Northern Airport Program (Class Environmental Assessment)", Ontario Government Review
September 1980	"Review of Ontario Hydro's Class Environmental Assessment for Minor Transmission Facilities", Ontario Government Review

COMPUTER SKILLS

- High degree of "computer literacy", in mainframe, minicomputer, microcomputer and network environments
- Used mainframe languages, FORTRAN, IFPS (Interactive Financial Planning System) and APL
- As a member of the Canada Remote Systems electronic Bulletin Board, became familiar with dozens of "shareware" software packages
- Expert programmer in spreadsheet software
- Also experienced Apple software user
- Knowledge of UNIX, expertise with PC-DOS and a wide variety of DOS-compatible software, especially WordPerfect and Presentation Graphics, MS Word and Powerpoint
- Knowledge of XML.

PROFESSIONAL MEMBERSHIPS

The Association of the Chemical Profession of Ontario

AWARDS

1980 – 1981	Social Sciences and Humanities Research Council of Canada Special M.A. Scholarship Award
1970 – 1973	Bolton Education Department University Award (Scholarship)
1969 – 1969	B.Sc. (Honours) in Chemistry, University of Bristol
1963 – 1970	Bolton Education Department Grammar School Award (Scholarship)

ACADEMIC ACHIEVEMENTS

1980- 1991	M.A in Economics, York University
1975-1978	Master of Environmental Studies (MES, Area of Concentration- Energy/Conserver Society/Environmental Philosophy
1974-1975	Special Student, University of Toronto
1970-1973	B.Sc (Honours) in Chemistry, University of Bristol
1963 - 1970	Canon Slade Grammar School, Bolton, Lancashire, U.K. <ul style="list-style-type: none">• 10 "Ordinary" Level General Certificates of Education (GCEs); in, English Language, English Literature, History, Geography, Religious Studies, Physics, Chemistry, Mathematics, French and Russian.• 4 "Advanced" level GCEs, in Physics, Chemistry, Mathematics and General Studies.

APPENDIX- UNIVERSITY COURSES TAUGHT

Years	Term(s)	Title	University	Department	Student type
1993	Winter	Environmental Economics ENVS5	York	Environmental Studies	Graduate
1994- 95	Fall and Winter	Environmental Thought INI421Y	Toronto	Innis College	Undergraduate
1995- 96	Fall and Winter	Environmental Thought INI421Y	Toronto	Innis College	Undergraduate
1996	Fall	Environmental Thought INI331F	Toronto	Innis College	Undergraduate
1997	Winter	Public Policy & Environment INI421	Toronto	Innis College	Undergraduate
1997	Fall	Environmental Thought INI331F	Toronto	Innis College	Undergraduate
1998	Winter	Public Policy & Environment INI421S/ Environmental Regulation & Policy Development EDM370	Toronto	Innis College/ Faculty of Applied Science & Engineering	Undergraduate
1998	Fall	Environmental Thought INI331F	Toronto	Innis College	Undergraduate
1999	Winter	Public Policy & Environment INI421S/ Environmental Regulation & Policy Development EDM370	Toronto	Innis College/ Fac. Applied Science & Engineering	Undergraduate
1999	Fall	Environmental Thought INI331F	Toronto	Innis College	Undergraduate
2000	Winter	Public Policy & Environment INI421S	Toronto	Innis College	Undergraduate
2000	Fall	Environmental Thought INI331F	Toronto	Innis College	Undergraduate
2001	Winter	Public Policy & Environment INI421S			
2001	Fall	Environmental Thought INI331F	Toronto	Innis College	Undergraduate
2002	Winter	Public Policy & Environment INI421S			
2002	Fall	Environmental Thought INI331F	Toronto	Innis College	Undergraduate
2003	Winter	Inside the World of Ontario Environmental Policy INI421S	Toronto	Innis College	Undergraduate
2003	Fall	The Influence of Economic Ideas INI447F	Toronto	Innis College	Undergraduate
2004	Winter	Inside the World of Ontario	Toronto	Innis College	Undergraduate

2004	Fall	Environmental Policy INI421S The Influence of Economic Ideas INI447F	Toronto	Innis College	Undergraduate
2005	Winter	Energy and Environment ENVS3130	York	Environmental Studies	Undergraduate
2005	Winter	Inside the World of Ontario Environmental Policy INI421S	Toronto	Innis College	Undergraduate
2005	Fall	The Influence of Economic Ideas INI447F	Toronto	Innis College	Undergraduate
2006	Winter	Inside the World of Ontario Environmental Policy INI421S	Toronto	Innis College	Undergraduate
2006	Fall	The Influence of Economic Ideas INI347F	Toronto	Innis College	Undergraduate
2006	Fall	Energy and Environment Policy and Politics ENV350	Toronto	Center for Environment	Undergraduate
2007	Winter	Public Policy and Environment ENV323	Toronto	Center for Environment	Undergraduate
2007	Fall	The Influence of Economic Ideas ENV 347	Toronto	Center for Environment	Undergraduate
2007	Fall	Energy and Environment Policy and Politics ENV350	Toronto	Center for Environment	Undergraduate
2008	Winter	Public Policy and Environment ENV323	Toronto	Center for Environment	Undergraduate
2008	Fall	The Influence of Economic Ideas ENV 347	Toronto	Center for Environment	Undergraduate
2008	Fall	Energy and Environment Policy and Politics ENV350	Toronto	Center for Environment	Undergraduate
2009	Winter	Public Policy and Environment ENV323	Toronto	Center for Environment	Undergraduate
2009	Fall	The Influence of Economic Ideas ENV 347	Toronto	Center for Environment	Undergraduate
2009	Fall	Energy and Environment Policy and Politics ENV350	Toronto	Center for Environment	Undergraduate
2010	Winter	Ontario Environmental Policy ENV323	Toronto	Center for Environment	Undergraduate
2010	Fall	The Influence of Economic Ideas ENV 347	Toronto	Center for Environment	Undergraduate
2010	Fall	Energy and Environment Policy and Politics ENV350	Toronto	Center for Environment	Undergraduate
2011	Winter	Ontario Environmental Policy ENV323	Toronto	Center for Environment	Undergraduate
2011	Fall	The Influence of Economic Ideas ENV 347	Toronto	Center for Environment	Undergraduate
2012	Winter	Ontario Environmental Policy ENV 323	Toronto	Center for Environment	Undergraduate
2012	Fall	The Influence of Economic Ideas ENV 347	Toronto	School of Environment	Undergraduate

