



**Expert leader and engineer in the public and private sectors** with 25 years' experience in system design engineering, economics and public policy, including 18 years' experience in government policy and legislation, energy efficiency and demand-side management, building and safety standards, renewable energy and decarbonization of buildings and energy supplies.

Employed by the BC Utilities Commission. Completed a Bachelor of Applied Science and Masters of Resource Management. Former Executive Director, BC Building and Safety Standards Branch.

## Professional Experience

**Commissioner.** BC Utilities Commission. Vancouver, BC. September 2021-present.

- Quasi-judicial decisionmaker on public utility regulatory applications and other proceedings

**Adjunct Professor.** University of Victoria Department of Civil Engineering. Saanich, BC. 2018-present.

- Research pertaining to resilient, ultra-low energy buildings, including PhD student supervision
- Co-lead Canadian Academy of Engineering "Roadmap to Resilient, Ultra-Low Energy Buildings with Deep Integration of Renewables"
- Delivered graduate course: "Sustainability Seminar Series in Civil Engineering" (20-21)

**Executive Director.** BC Ministry of Attorney General and Minister Responsible for Housing; Building and Safety Standards Branch. Victoria, BC. 2017-2021.

- Led Branch and provided support to senior executive and Minister
- Responsible for Building Act, BC Building, Plumbing and Fire Codes, Safety Standards Act and seven regulated technologies, and the Homeowner Protection Act
- Responsible for the qualification of Building Officials in BC, Technical Safety BC, BC Housing's Licensing and Consumer Services
- Co-lead for Buildings Pathway; CleanBC Roadmap to 2030
- Led BC input for national Construction Codes Reconciliation Agreement and Provincial-Territorial Policy Advisory Committee on Codes
- Responsible for 2020 Minister mandates, including Existing Building Renewal Strategy, standards for accessibility and carbon pollution standards

- Participated in Professional Governance Act Advisory Committee, Climate Action Task Force and Emergency Management BC initiatives
- Provided leadership for Indigenous reconciliation, including a federal First Nation Industrial and Development Act initiative for a major housing development
- Supported Office of Housing and Construction Standards on housing diversification and affordability initiatives and COVID-19 response and recovery

**Faculty** (contract professor). Yorkville University. Vancouver, BC. 2017-2019.

- Designed curriculum for, and delivered two undergraduate business courses: "Energy Policy, Legislation and Social Environment" and "Energy Strategy Capstone Project"

**Associate, Senior Energy and Sustainability Specialist.** RDH Building Science Inc. Vancouver, BC. 2013-2017.

- Provided engineering design services for new buildings and existing building retrofits, including financial analysis and acting as DSM approved consultant
- Provided services to public utilities, including DSM evaluation, measurement and verification and preparation of reports on energy codes and standards

→ Supported building asset management  
**Green Buildings Manager, contractor.** City of Vancouver, City Manager's Office. Vancouver, BC. 2013-14.

- Developed strategy for energy efficiency retrofits of existing buildings and decarbonization of new buildings

## Professional Experience cont...

Director, Energy Efficiency. BC Ministry of Energy and Mines, Electricity and Alternative Energy Division. Victoria, BC, 2003-2012.

- Developed energy policy, including 2007 Energy Plan and 2010 Clean Energy Act
- Led energy efficiency policy, including Energy Efficient Buildings Strategies (2005&2008), industrial strategy and proposed legislation
- Developed and managed issues pertaining to the Energy Efficiency Act legislation and DSM Regulation under the Utilities Commission Act
- Designed and managed energy efficiency programs such as LiveSmart BC
- Managed remote community programs, including energy planning, energy efficiency and independent power production
- Provided input for two BC Hydro Integrated Electricity plans (2006, 2013) and participated in BC Hydro and FortisBC DSM advisory committees
- Developed tax policy proposals

Director, Sustainable Energy and Community Eco-Solutions Programs. Pembina Institute. Vancouver, BC. 1999-2003.

Consultant. Compass Resource Management Ltd. Vancouver, BC. 1997-99.

Analyst. BC Task Force on Electricity Market Reform. Vancouver, BC. 1997.

Researcher. BC Utilities Commission. Vancouver, BC. 1995.

## Education

- Master of Natural Resources Management (MRM), Energy and Materials Research Group. Simon Fraser University. Burnaby, BC. 1994-97.
- Bachelor of Applied Science, Systems Design Engineering with Environmental Engineering Option and Minor in Peace and Conflict Studies. University of Waterloo. Waterloo, ON. 1989-94.
- French Language Certificate (Level 5). University of Victoria, Continuing Studies. Saanich, BC. 2006.

## Memberships and Committees

- Registrant: Association of Professional Engineers and Geoscientists of BC: 2000-present.
- Member: American Society of Heating, Refrigeration and Air Conditioning Engineers: 2008-present.
- Fellow: Canadian Academy of Engineers: 2015-present.
- Former member: Canadian Commission on Building and Fire Codes: 2021.

## Select Accomplishments

- 2020. Named to Canadian Commission on Building and Fire Codes.
- 2019. Awarded CleanBC Building Innovation Fund grant for research on deep retrofits of existing buildings.
- 2019. Founded the Earthquake Engineering Research Institute Student Chapter at UVic.
- 2017. Engineers and Geoscientists BC. Editorial Board Award for article, "Confirming the Benefits" in Nov/Dec 2016 Innovation Journal.
- 2015. Awarded Fellowship to the Canadian Academy of Engineers.
- 2009. Larry Bell Award for advancing energy conservation in BC.

## Publications

- *Net-Zero Ready Building Codes.* Canadian Academy of Engineering, July 2020.
- *Jurisdictional Responsibility for Improving the Resilience of Buildings to Climate-related Power Outages.* Canadian Academy of Engineering, July 2020.
- *Canada's Energy Efficiency Outlook: A National Effort for Tackling Climate Change.* Author of BC Chapter. Edited by Pierre Langlois and Geneviève Gauthier. 2018. Fairmont Press.
- *Anatomy of a Code - Enhancing Building Envelope Design Through the BC Energy Step Code.* BC Building Envelope Council Elements, July 2018.
- *Roadmap to Resilient, Ultra-Low Energy Buildings in the Pacific Northwest.* First International Conference on New Horizons in Green Civil Engineering. April 2018.
- *Renewing an Existing Residential Building to Yield Deep Energy Savings.* APEGBC Innovation Journal, November 2016.
- *The Ramona - Affordable and Efficient (affordable rental building in Portland).* ASHRAE Journal, 2014.
- *Vancouver's Greenest City Action Plan Enabling Deep Efficiency Improvements.* American Council for an Energy Efficient Economy (ACEEE), 2014.
- *The Measured Impacts of Building Enclosure Renewals on HVAC System Performance and Energy Efficiency.* ASHRAE Conference, 2014.
- *Multi-Unit Residential Buildings in BC - A Vision for Energy Efficiency.* APEGBC Innovation, Sept/Oct 2012.
- *Adventures in Tweaking the Total Resource Cost Test: Experiences from British Columbia.* ACEEE, 2012.
- *Codes and Standards for Windows and Glazing in British Columbia.* ASHRAE, 2011.
- *British Columbia's Energy Efficient Buildings Strategy.* ASHRAE, 2011.
- *Employee Engagement and Energy Management Software Supporting Carbon Neutrality.* ACEEE, 2010.
- *Market Transformation Strategy for Windows and Doors in British Columbia.* ACEEE, 2010.
- *Energy Efficient Buildings Strategy: More Action, Less Energy.* BC Ministry of Energy, Mines and Petroleum Resources, 2008.
- *Foundation Paper, eight Issue Papers and Final Report. Energy Efficiency Working Group - Energy Sector Sustainability Table.* Government of Canada. 2008.