

COMPANY PROFILE

F.C. O'Neill, Scriven & Assoc's Limited (ONSA) is a Consulting Engineering Firm headquartered in Halifax that specializes in the Electrical and Mechanical Building Sciences. As such, it is the Firm of longest standing in Nova Scotia. Throughout Atlantic Canada, their services have been employed in more than 6,200 commissions spanning 62 years. The complexity and diversity encountered has developed the experience essential for quality services and successful projects.

A talented and experienced team of professional Engineers, backed by Technologists, enables the Firm to successfully tackle highly sophisticated projects requiring a multi-disciplined approach. A history of work with energy related projects has given the Company a knowledge and reputation for achieving maximum energy efficiency. More recently, the Firm has been selected for a number of commissions where sustainable and integrated design have been a prerequisite.

ONSA's fields of activity include: electrical power generation and distribution, lighting/illumination, security systems, communications, plumbing, heating, ventilation, air conditioning, controls, refrigeration, fire protection, central heating and cooling plants, construction supervision, and investigations/reports.

Indicative of the Company's ability to meet this broad range of needs, it has successfully carried out the design of energy control systems in public buildings, and mechanical and electrical design in offices, hospitals, hotels, marine facilities, publishing plants, schools, colleges, universities, traffic control systems, penitentiaries, aircraft hangars, convention and entertainment facilities, and manufacturing and processing plants, to name a few.

ONSA is a member of the Canada Green Building Council (CaGBC) under the "Green Building Specialist" category and has recently been accepted by Efficiency Nova Scotia as a service provider for their Building Optimization Program. ONSA provides building commissioning, re-commissioning and retro-commissioning services, as well as LEED consulting and energy modelling services. ONSA staff are well trained in the use of the Model National Energy Code of Canada for Buildings (MNECB)-1997 and the more recent National Energy Code of Canada for Buildings (NECB)-2011, ASHRAE 90.1, eQuest, Carrier's Hourly Analysis Program (HAP), CanQuest, EnergyPlus, GLD for Geothermal Applications, EnergyPro for VRF system applications, energy simulation software such as EE4, and NRCAN software such as RetScreen.

EXPERIENCE

The following summarizes ONSA's credentials in the Residential, Commercial, Institutional and Light Industrial sectors.

Mechanical Expertise

- **Plumbing**
- **Heating**
- **Air & Water Filtration**
- **Ventilation**
- **Air Conditioning**
- **Dust Collection**
- **Seawater Cooling**
- **Refrigeration**
- **District Energy Systems**
- **Building Audits/Assessments**
- **Life Cycle Cost (LCC) Analysis**
- **Analysis**
- **Fire Protection**
- **Heat Recovery Systems**
- **Medical Gases**
- **Feasibility Studies**
- **Indoor Air Quality (IAQ) Investigations**
- **Design Compliance Reviews**
- **Construction Administration**
- **Controls**
- **De-humidification**
- **Geothermal Systems**
- **Humidification**
- **Equipment and Systems**
- **Start-up & Commissioning**

Electrical Expertise

- **Power Generation**
- **Building Audits/Assessments**
- **Traffic Control**
- **Life Cycle Cost (LCC) Analysis**
- **Building Lighting**
- **Design Compliance Reviews**
- **Security System (Card Access, CCRV)**
- **Equipment and Systems Start-up and Commissioning**
- **Communication Systems (Telephone, Voice, Data)**
- **Light Rendering**
- **Power Distribution**
- **Short Circuit Analysis**
- **Fire Alarm Systems**
- **Nurse Call Systems**
- **Cable Television Systems**
- **Insurance Investigations**
- **Construction Administration**
- **Emergency Generators**

Sustainability Expertise

- **Commissioning/Re-Commissioning/Retro-Commissioning**
- **Green Building/Sustainable Design/LEED Design**
- **Energy Management/Energy Conservation**
- **LEED Consulting**
- **Energy Modelling**

Typical Scope and Range of Projects

- ❖ **Acadia University - Biology Building. Wolfville, N.S.**
- ❖ **Canada Games Centre - Fitness, Aquatic & Recreation Facility. Halifax, N.S.**
- ❖ **Canadian Coast Guard Headquarters at the Bedford Institute of Oceanography. Dartmouth, N.S.**
- ❖ **Cape Breton District Health Authority - Cancer Treatment Centre Expansion. Sydney, N.S.**
- ❖ **Cape Breton University - Centre for Sustainability in Energy & the Environment. Sydney, N.S.**
- ❖ **Casino Nova Scotia - 95,000 ft² over land and 30,000 ft² over a Halifax Harbour facility that includes two restaurants, an entertainment lounge, a retail area, a special events room with a stage and adjoining servery, a pre-function room, a gaming area, and a VIP lounge. Halifax, N.S.**
- ❖ **CFB Gagetown Fitness Facility. CFB Gagetown, N.B.**
- ❖ **Dalhousie University - Life Sciences Research Institute. Halifax, N.S.**
- ❖ **Dalhousie University - Steele Ocean Sciences Building. Halifax, N.S.**
- ❖ **Dorchester Penitentiary - Central Heating Plant Natural Gas Conversion. Dorchester, N.B.**
- ❖ **Emera Centre - Ice Arena and Community Centre. North Sydney, N.S.**
- ❖ **Halifax Infirmary Emergency Department – Charles V. Keating Wing. Halifax, N.S.**
- ❖ **Health Park Office Complex – Five Storey Medical Office Building. Sydney, N.S.**
- ❖ **Horton District High School - 174,000 ft² high-tech teaching facility for high school students housing classrooms, computer labs, a theatre, and a gymnasium. The building utilizes state-of-the-art geothermal energy to heat and cool the facility. Greenwich, N.S.**
- ❖ **Joggins Fossil Cliffs. Joggins, N.S.**
- ❖ **Membertou K-9 School. Membertou First Nation, N.S.**
- ❖ **Nova Scotia Community College - IT Campus Renovations/Upgrade. Halifax, N.S.**
- ❖ **Nova Scotia Community College - Waterfront Campus and the Centre for the Built Environment. Dartmouth, N.S.**
- ❖ **Saint Mary's University - Atrium Building. Halifax, N.S.**
- ❖ **Saint Mary's University - Homburg Centre for Health & Wellness. Halifax, N.S.**
- ❖ **Saint Mary's University – The Sobey Building. 70,000 ft² new business school and an 85,000 ft² renovation to house classrooms, a computer training facility and a lecture theatre. Halifax, N.S.**
- ❖ **University of Prince Edward Island - Atlantic Veterinary College, including the original complex and the recently added four-storey research laboratory and rodent care facility. Charlottetown, P.E.I.**
- ❖ **World Trade and Convention Centre and Halifax Metro Centre, including the addition of Skyboxes. Halifax, N.S.**

ONSA STAFF

The Firm includes personnel with specialized credentials such as a lighting designer who is certified by the National Council on Qualifications for the Lighting Professions (LC designation), two engineers who hold the Registered Communication Distribution Designer (RCDD) designation, three C.E.T.'s who are LEED Accredited Professionals and a mechanical engineer who holds a Master's Degree in Fire Protection Engineering.

Engineers

G. Scott Moore, P. Eng. President, Mechanical Engineer
 R. Glen Rockett, P. Eng. Vice President, Secretary, Electrical Engineer
 David L. Parkinson, P. Eng. Vice President, Mechanical Engineer
 J. Peter Scriven, P. Eng. Mechanical Engineer
 Allan A MacDonald, P. Eng., RCDD Electrical Engineer
 Trent D. Moore, P. Eng. Mechanical Engineer
 Jean-Pierre Savoie, P. Eng., RCDD | DCDC Electrical Engineer
 David G. Inglis, P. Eng. Mechanical Engineer
 Hamdi Battikh, P. Eng. Electrical Engineer
 Craig L. Bona, P. Eng. Electrical Engineer
 Michael R. Ramsis, P. Eng. Mechanical Engineer
 Kyle R. Tutty, P. Eng. Electrical Engineer
 Joshua C. Rudolph, P. Eng. Mechanical Engineer
 Carolyn E. Risley, M. Eng., P. Eng. Mechanical Engineer
 Ben Reinhart, P. Eng. Mechanical Engineer

ONSA has two offices in Nova Scotia, namely Halifax (head office) and Sydney (branch office).

Please visit our website at www.onsa.ca.