

# Daniel Dicaire

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CERTIFICATION	EDUCATION	PUBLICATIONS	AWARDS
<p><b>AEE Certified Energy Manager</b></p> <p><b>AEE Certified Measurement and Verification Professional</b></p> <p><b>WELL Accredited Professional</b></p> <p><b>Professional Engineers Ontario</b></p> <p><b>Canadian Passive House Institute: Passive House Designer Course</b></p>	<p><b>M.A.Sc. Chemical Engineering,</b> Solar Thermal Energy Storage, University of Ottawa - 2008-2010</p> <p><b>B.A.Sc. Chemical Engineering,</b> Environmental Engineering Specialization, <i>summa cum laude</i>, University of Ottawa - 2003-2007</p> <p><b>Entrepreneurship Edge</b> - OCRI 2009</p>	<p>“Wireless Heating Management System and Tenant Usage Behavior in Bulk-Metered Apartment Buildings: A Case Study” <i>ASHREA</i> (Jan 2017)</p> <p>“Save Energy and Extend Building Life— Window and Balcony Door Replacements” <i>CMHC</i> (Dec 2016)</p> <p><b>LANGUAGES</b></p> <p><b>English (Fluent)</b></p> <p><b>French (Fluent)</b></p>	<p><b>Ottawa Community Housing Net-Zero PEER Pilot - Clean50 Top Project 2022</b></p> <p><b>2020 Young Energy Professional of the Year for Canada - Association of Energy Engineers</b></p> <p><b>Clean50 Emerging Leaders Award 2016</b></p>

## Relevant Work Experience

**Manager, Energy & Sustainability, Ottawa Community Housing (OCH), Mar. 2018 – Present**

*OCH 2040 Climate Change Compliance Plan (for existing buildings)*

- Analyzing utility and greenhouse gas (GHG) inventory of 17M sqft portfolio on annual basis
- Developing portfolio compliance strategy to meet net-zero GHG emissions by 2040
- Developing capital strategy to achieve 25% GHG (7,800 tons) & utility reduction targets
- Applying to CMHC to secure \$220M of funding for the next 8 years of capital planning
- Developing strategy for \$750M of funding to address 75% (22,000 tons) of emissions

### *OCH Sustainable Development Plan (for new buildings)*

- Developed guiding principles of sustainability for OCH's developments, including Passive House standard, WELL Building Standard, and Zero Carbon Standard
- Managing implementation of sustainability standards during concept design, design development, and construction phases
- Managed sustainability standards and Passive House requirements for:
  - 1290 Coldrey (WELL Standard) - 40,000 sqft
  - 811 Gladstone - 130,000 sft
  - 715 Mikinak (CaGBC Zero Carbon w/ campus district utility) - 300,000 sqft
  - In design - 818 Gladstone (campus district utility) - 250,000 sqft
  - In design - 933 Gladstone (district energy system) - 350,000 sqft

### *Presland Net-Zero Energy Retrofit*

- Lead research project with NRCan to retrofit a 4 unit block of townhomes to net-zero energy and GHG emissions. Foundation, exterior walls and roof were over-cladded with prefabricated insulated panels to achieve EnerPHit retrofit standard
- Managed mechanical contractors to retrofit natural gas equipment with air-source heat-pumps
- Time Lapse Video of Project: [211110 Final Timelapse with Energuide.mp4](#)
- Managed electrical contractor to upgrade system and install 34.8 kW solar PV array.

## **Energy & Sustainability Officer, Ottawa Community Housing – June 2010 – Mar. 2018**

### *OCH Sustainability Framework*

- Developed and lead the implementation of OCH's Green Plan (2011-2015) and OCH's Eco2Plan
- Managed the Green Fund annual plan and budget, which has grown from \$1M (2010) to over \$5M (2018), while providing \$1-\$2M of annual endowment for various sustainability initiatives
- Secured over \$14M of grants, incentives, and in-kind work
- Supported Capital Planning with additional applications for over \$35M of grants (REI, SHARP, SHAIP)
- Managed sustainability projects leading to over \$45M of cumulative utility savings

### *Implementation of OCH's Utility Management System (Energy Cap)*

- Lead implementation of EnergyCap to manage OCH's \$23M of annual utility costs
- Implemented a bill import automation process for over 7,000 monthly utility bills that were previously manually entered
- Facilitated an interdepartmental team (Tenant Services, IT, Finance, Asset Management) to develop a scope of work and tender documents

### *Implementation of Renewable Energy Initiative 500kW of solar photovoltaic generation*

- Lead the restructuring of OCH's Renewable Energy Initiative project and secured \$3.7M of funding
- Supported and coached the project managers throughout the implementation of 300 kW of solar array across 32 sites
- Partnered with HydroOttawa and SPARQ to have 200kW of solar arrays donated and managed the implementation across 3 sites
- Developed and implemented ongoing monitoring and maintenance for \$4.5M of solar assets, which generate over \$350K of revenue annually

### *Portfolio-wide in-suite plumbing retrofit (15,000 units)*

- Coordinated implementation of the retrofit in over 15,000 units and ensured all parts were recycled
- Developed maintenance and warranty protocols across multiple districts for 10 years of free parts
- Reduced OCH's water consumption by 40% by retrofitting plumbing fixtures: 1.6M m<sup>3</sup> of water annually (approx. \$6M)

### *Portfolio-wide LED lighting retrofit*

- Identified hazardous chemical risk and improper disposal practices that were a liability for OCH
- Planned multi-year roll-out and managed installation schedule of 30,000 fixtures
- Developed maintenance and warranty protocols across multiple districts for 5 years of free parts
  - Reduced consumption by 4.6 GWh of electricity saved annually (approx. \$600,000)

### **Recent Conference Presentation Experience**

- ❖ [Canadian Consulting Engineering Better Buildings PodCast](#): Prefabricated Panels for Energy-Efficient Building Envelopes
- ❖ [Net-Zero and Deep Energy Retrofits in Community Housing](#)  
Federation of Canadian Municipalities - 2020 Sustainable Communities Conference
- ❖ [The Passive House Path to Affordability](#)  
Ontario Not-For-Profit Housing Association - 2019 Regeneration Forum
- ❖ [Energy Efficiency Strategy for New Social Housing \(Re\)Developments](#)  
Association of Energy Engineers - 2019 World Energy Engineering Congress

### **Leadership, Collaboration, and Team Building Experience**

- ❖ Energy Management Program Advisory Committee (PAC) at Algonquin College  
Centre for Construction Excellence (ACCE)
- ❖ Chief Returning Officer, Civic Institute of Professional Personnel; 2016-2018
- ❖ Joint Health and Safety Representative, Civic Institute of Professional Personnel, 2015-2018