

MARC MADI MEng, LEED GA, PMP

Senior Energy and Decarbonization Lead, Enerlife Consulting Inc., 2023 to present
mmadi@enerlife.com 416-915-1530

SUMMARY OF PROFESSIONAL EXPERIENCE

Marc brings over 20 years of mechanical lead experience to Enerlife, having led over 40 building design/performance projects in commercial and institutional facilities. He is also well immersed in high-performance building systems across institutional and commercial sectors, specializing in HVAC design, building energy performance, and decarbonization of existing and new buildings. His work spans energy analytics, life-cycle costing, and system optimization, with a focus on improving real-world building performance, reducing performance gaps between design and operation, and enabling cost-effective pathways to electrification and emissions reduction in public infrastructure

Marc is a Project Management Professional, a certified energy manager and a LEED Green Associate.

RELEVANT PROJECTS

Foundations for Net Zero Buildings: Natural Resources Canada Code Acceleration Fund (CAF) funded research

Marc has been providing technical direction on national research into the performance of new schools. This research project is benchmarking actual energy performance of hundreds of recently constructed buildings across Canada and comparing their performance against National Energy Code of Canada for Buildings (NECB) archetypes. This includes identifying, investigating and documenting the most energy efficient of these facilities. With the help of building owners, Enerlife is mapping the development process, from project inception to ongoing facility operations, to identify success factors and process weaknesses which lead to more energy and carbon intensive outcomes.

Sustainable Schools

Marc provides technical direction to the national program engaging school boards in energy efficiency. He provides guidance on the Top Energy Performing School Boards reports and contributes to the strategic direction of the program. He developed the energy advisory service offering with EcoSchools Canada.

Pay for Performance Schools project

Marc leads the technical development of this innovative, multi-year incentive program involving Ontario school boards reducing energy use through real-time monitoring and immediate feedback. He plays an integral role in the program's ongoing refinement and development to better support school boards in managing their gas use and reducing greenhouse gas emissions.

Post Secondary Climate Challenge program

Marc has provided technical guidance and expertise to this program engaging post-secondary institutions in addressing energy efficiency and

HIGHLIGHTS OF EXPERIENCE

- Experience providing evidence-based retrofits and operational solutions for mechanical and electrical systems in commercial and institutional buildings
- Mechanical building systems consultancy and design

AREAS OF SPECIALIZATION

- Building Energy Audits
- Data analysis and implementation
- ASHRAE and CSA standards
- Revit
- Life cycle cost analysis

PROFESSIONAL AFFILIATIONS

- LEED Green Associate
- CEM Certified Energy Manager
- Project Management Professional (PMP), Project Management Institute

ACADEMIC QUALIFICATIONS

- Master of Science Mechanical Engineering, University of Balamand UOB (Lebanon), North Lebanon, El Koura
- Bachelor of Science-Mechanical Engineering, University of Balamand UOB (Lebanon), North Lebanon, El Koura

greenhouse gas emissions. He has helped develop the annual Top Colleges and Universities benchmarking report and webinar, as well as the Performance-Based Building Automation System (BAS) and Recommissioning Project. He worked with two Ontario colleges to implement the HVAC and BAS Optimization Guide for Post-Secondary Institutions.

Cadillac Fairview – Yonge Corporate Centre

Enerlife's Integrated Building Performance Team program at Cadillac Fairview's Yonge Corporate Centre leverages BAS, interval data reporting and fault detection diagnostics to lead building operation teams in maximizing energy efficiency and occupant comfort. Marc is leading the team to develop Yonge Corporate Centre's Net Zero Roadmap. He conducted an ASHRAE Level II audit for the entire complex. Marc directed the team on trend log analysis for energy efficiency and plant optimization, as well as performed life cost analysis for low-carbon and energy conservation measures.

Cadillac Fairview – Toronto Dominion Centre

Marc supports Enerlife's ongoing Integrated Building Performance Team program at Cadillac Fairview's TD Centre commercial office building. Marc is responsible for supporting the testing and balancing work, analysis of results, trendlog analysis, and measure identification, helping Enerlife's long-term client meet ambitious energy and carbon reduction targets. He ensures that the commercial office building's operations are optimized in accordance with standards such as ASHRAE 62.1.

Net Zero Feasibility studies

Working closely with the rest of Enerlife's engineering team, Marc supports the building data collection and technical analysis for a number of community centre GHG pathway to net zero feasibility studies in municipalities across Canada. Marc's responsibilities include conducting site visits in close collaboration with facility staff, data analysis, stakeholder management, and conducting workshops. These studies, conducted in partnership with CIMCO Refrigeration, leverage funding from the Federation of Canadian Municipalities to lay out the measures each building should take over time to eventually achieve net zero carbon emissions.

Township of King: Trisan Centre and Nobleton Arena Recommissioning and Monitoring

Enerlife worked with the Township of King to recommission two community centres with ice rinks to improve efficiency and as a first step in reducing greenhouse gas emissions to get to net zero. Marc was responsible for building and energy data collection and analysis, ongoing relationship with testing and balancing contractors, identification of measures and opportunities, and updating of Building Automation System (BAS) sequences of operation.