



REVOLUTIONIZING ENERGY INFRASTRUCTURE: MODERN NIAGARA'S JOURNEY TO DECARBONIZE CANADA'S ICE ARENAS



Through the AMPED project, Modern Niagara has successfully demonstrated that a community ice rink can be a new source of national pride – comprised of environmental responsibility, and a catalyst for societal transformation to help meet reduction targets.

At the core of Modern Niagara's decarbonization efforts lies a commitment to pushing the boundaries of what's possible, including investing in the development of innovative technologies tailored to facilities with complex needs. For AMPED, this included the real-time development of the Liquid Desiccant Dehumidifier (LDD) – a technology that Modern Niagara continues to advance for enhanced efficiency and performance.

As an emerging leader in sustainability solutions, Modern Niagara also collaborates with cutting-edge clean tech partners such as OX2, Airwise, Blue Frontier, Distech Controls, and Guest Automation to explore new solutions for building equipment, ensuring not only decarbonization but also energy efficiency.

Leveraging their expertise, partnerships, and relationships with industry leaders and the AMPED Sports Lab and Ice Complex owners, Modern Niagara assembled a team of subject matter experts to tackle the unique challenges posed by decarbonizing ice arenas – setting a precedent and roadmap for municipalities across Canada to follow.

This decarbonization project exemplifies how visionary leadership and collective action can drive change. Modern Niagara's cutting-edge initiative to reduce carbon emissions in Canada's ice arenas proves that net zero is not just a goal, but an achievable reality. And, the lessons learned from decarbonizing arenas can be applied toward other buildings, accelerating Canada's transition toward a more sustainable future.

Modern Niagara welcomes all stakeholders to join this decarbonization journey. From municipal decision-makers to facility owners, a sustainable future is achievable when we meet together at the rink.

Contact Modern Niagara's Energy Solutions team today: esolutions@modernniagara.com

Modern Niagara's transformation of the AMPED Sports Lab and Ice Complex into North America's first arena to achieve a Zero Carbon Building Performance Standard certification proves decarbonization is achievable – even in the most challenging spaces.

Canada's aggressive carbon reduction objectives need to be met by 2030 and 2050. As building emissions represent a significant percentage of the country's total emissions, Modern Niagara – Canada's leading national mechanical and electrical, building services, and integrated building technology contractor – has responded to the urgent call for a decarbonized built environment.

Ice rinks symbolize Canada's national identity. Whether the place for hockey, exhibiting our collective values of teamwork, dedication, and resilience, or the shared space for belonging, connection, and unity, the arena represents the heart of Canadian communities. They are also among the highest energy-consuming facilities in a municipality. As such, Modern Niagara developed the position that if an arena can be decarbonized, any building in any community can be decarbonized, making arenas the ideal starting point for municipalities looking to begin their net zero journeys.

