

InFact

Positive Practical Change

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About the Edmonton Waste Management Centre of Excellence (EWMCE)

The Edmonton Waste Management Centre of Excellence is founded on the vision of a public-private partnership that unleashes innovation and promotes knowledge-sharing in all aspects of waste management. Since incorporating as a not-for-profit in 2003, the EWMCE has worked to achieve that vision; along the way developing an excellent track record of bringing together people, services, and infrastructure to lead innovation in waste management.

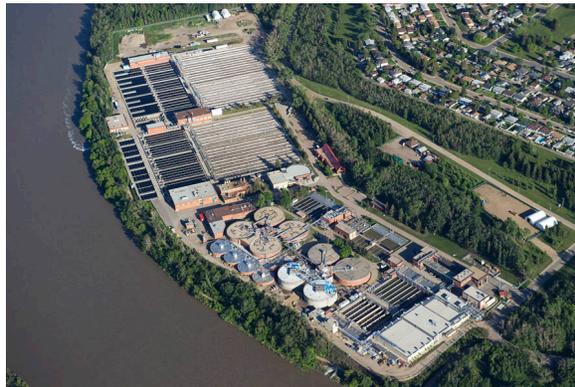
The EWMCE is committed to developing practical, sustainable solutions to local and global waste management challenges. We train plant operators and waste management professionals, as well as assist researchers, technologists, and government decision makers to address waste management issues. The Centre of Excellence's mandate is to foster the development of state-of-the-art knowledge, technology, and facilities for solid waste and wastewater management through our three program areas: Applied Research, Technology Development, and Training and Education.

The Centre of Excellence operates at the core of a unique private-public network of environmental leaders. Our current Members consist of: Alberta Innovates - Technology Futures, AMEC Environment & Infrastructure, City of Edmonton, EPCOR Water Services, Northern Alberta Institute of Technology (NAIT), and the University of Alberta.

Our Facilities

Our operations are based at two locations occupying more than 2500 m²: the Research & Development building on the City of Edmonton's integrated solid waste management site, and the Wastewater Research & Training Centre at EPCOR's Gold Bar Wastewater Treatment Plant.

Embedding our research, technology development, and training facilities within world-class municipal infrastructure offers a unique advantage to our clients. We have access to real-time waste streams and experts in the operation and the management of large-scale municipal infrastructure. We have access to a pilot plant for wastewater; and laboratory and analytical facilities are available through our members, Alberta Innovates - Technology Futures and the University of Alberta. Each facility also has access to large lecture auditoriums and classrooms.



EPCOR's Gold Bar Wastewater Treatment Plant



City of Edmonton - Clover Bar Solid Waste Research and Development Facility



Edmonton Waste Management Centre of Excellence

The Edmonton Waste Management Centre of Excellence is a not-for-profit joint venture between public, private and academic members. The Centre promotes research, development and training to enhance scientific and applied knowledge in all areas of waste management and facilitates transfer of knowledge to contribute to the protection of public health, the sustainable use of environmental resources and the quality of life locally and globally.

The Centre's members are: the City of Edmonton, the University of Alberta, Alberta Innovates - Technology Futures, AMEC Earth and Environmental Ltd., Northern Alberta Institute of Technology

Connecting People with Opportunities

In an era of increasing eco-accountability, some of the world's most committed stakeholders are making a difference through collaborations with the Edmonton Waste Management Centre of Excellence.

A gateway to leading-edge environmental resources, the Centre of Excellence has made possible advancements in:

- Research: Pathogen survival in compost systems
- Technology Development: Street Sand Recycling
- Customized Education Programs: Household Hazardous Waste Handling for First Nations
- Verification of Emerging Technology: Novel sludge drying process
- Advanced Technical Services: Carbon balances and offset credit analysis

Our Services

Our three program areas are strategically positioned to provide customized services to meet your particular needs in solid waste and wastewater management. The core function of the Centre of Excellence is to bring together a network of world-renowned experts to create multi-disciplinary teams who work with clients to develop strategies that respond to their needs. Through this vast network, we provide practical scientific and technical advice, and project management expertise to municipalities, corporations, and individuals to aid them in resolving issues in wastewater treatment and solid waste management.

Technology Development

The Technology Development program's mandate is to develop, test, modify, and verify technologies for private or public sector clients using real-time municipal solid waste or wastewater streams. The program draws on the support of our Members and the other program areas to tackle a wide range of highly specialized projects and technologies.

The Technology Development projects are conducted by a multidisciplinary science and engineering team of experts specialized in technology development and verification.

Research

The Research program fosters innovation that will achieve economic, environmental, and societal benefits through improvements in waste management. The program creates opportunities in both traditional and emerging areas of waste management and excels at bringing together teams to address the most challenging issues in the field. We attract exceptional researchers in diverse fields from across Canada and around the world to experiment at our facilities, design new tools and techniques, investigate ways to improve processes, and to share their experience and knowledge.

Education & Training

The Centre of Excellence is equipped to manage the educational needs of corporations, institutions and municipalities. From planning and facilitating round-table discussions to hosting seminars, conferences, and technical training workshops, the Centre is instrumental in supporting knowledge-sharing and development in waste management. The Centre's Advanced Wastewater Training Modules (AWTM) for wastewater operators is a great example of how the Centre is able to partner with government and industry to provide the most current and comprehensive training program available.

Contact Information



Edmonton Waste Management
Centre of Excellence
Site 310, 13111 Meridian Street
Edmonton, Alberta T6S 1G9
Ph: (780) 496-7316
Fax: (780) 944-5709
Email: ewmce@edmonton.ca
Website: www.ewmce.com



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