



ONE GIANT LEAP FOR A SUSTAINABLE FUTURE

Shovels are in the ground on LEAP (Leisure Expansion Aquatic Expansion), and a new era for MNP Community & Sport Centre is quickly taking shape. We would like to share some updates on the sustainability side of the renovation. These updates will implement environmentally conservative practices and build upon the Centre's proud history of innovative solutions. This will allow for substantial improvements to the ecological footprint of the MNP Community & Sport Centre, while building new social and economic benefits for the Community.

Water Conservation & Management

As one of Calgary's largest aquatics facilities, the management of water use in the facility is a high priority, and with the leaps in pool and water technologies since the last updates to the infrastructure of the Centre it provides us with optimal opportunities to improve water conservation within the Centre.

New landscaping that will require low-water consumption, and fair better to the arid prairie climates, will be placed around the building. Updated pool technologies, featuring state-of-the-art regenerative pool filters will help reduce water backwashing by around 90%. Combined with other technologies these will not only allow MNP Community & Sport Centre to meet LEED v4 (Leadership in Energy and Environmental Standards) baseline for potable water consumption but outperform it by up to 35%!

Energy Efficiency & Renewable Energy Integration

MNP Community & Sport Centre aims to be a leader in the energy efficiency with the building meeting and beating the NECB (National Energy Code of Canada) requirements by up to 35%.

This will be accomplished through the implementation of new high-efficiency boilers that will significantly reduce energy consumption. The use of a variable airflow system that can adjust energy use based on the needs of different facility zones to help avoid over-conditioning, and ultra-high-efficiency heat recovery units that can recover up to 95% of the energy from exhaust air that would have normally been wasted through a regular HVAC system.

The part of the building process MNP Community & Sport Centre along with its partners are prioritizing the use of construction materials that emit little to no VOC's into the air.

While not only sustaining a healthier environment for longer these materials usually hold the added benefit of holding their efficiency for longer as well.

Carbon Footprint Reduction

Working together with our energy conservation efforts MNP Community & Sport Centre's reduction of its carbon footprint will be handled through several measures.

The facility is looking at an expansion of its current bicycle parking offerings to better serve members of the community that use this form of transportation.

With the facility continuing operations throughout LEAP construction, we will be implementing the best practices to ensure the highest air-quality possible within the facility during construction. As ductwork is being installed it is being sealed off to prevent dust ingress, and active air monitoring is used during major demolition activities.

With the use of a variable airflow system, the use of refrigerants can also be reduced, allowing for less impact on the environment. While all major mechanical and electrical equipment will go through commissioning to verify that it is operating and functioning at the highest safety and sustainability levels.

The building envelope will also be built to high-efficiency standards, ensuring that the lost energy is kept to a minimum. This will involve eliminating drafts, improved insulation, triple-pane windows and more energy saving measures.

We are also proud to announce that around 80% of the non-hazardous construction demolition waste will find a new life. Currently it is being diverted from landfills and recycled for reuse in civil applications and new products that use recycled materials.

Continuous Improvement

We realize that MNP Community & Sport Centre is not done growing, that future opportunities will present themselves for us to serve our community, and we are already preparing for this.

The implementation of solar-ready walls will allow us to expand our energy-use reduction strategies at a later point in time while mitigating upgrading costs. There are also plans to continue working on the building's ventilation strategy to better serve the community. Innovative heat migration, and recovery is also planned.

LEAP is more than a renovation, it's a commitment to a more sustainable, energy-efficient, and community-focused future. We can't wait to welcome you into a revitalized space that's built not just for today, but for generations to come.

