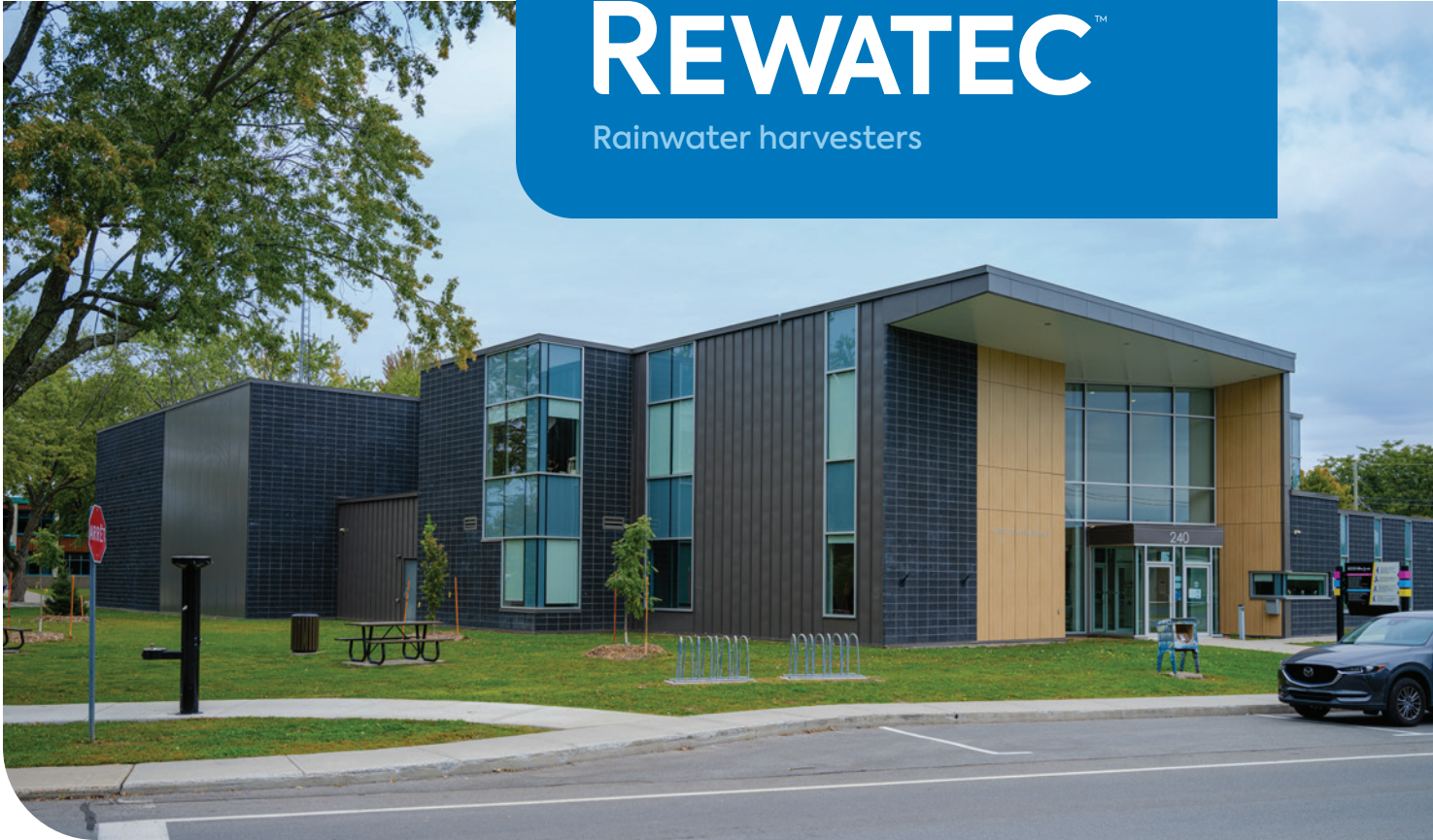


CASE STUDY

Rainwater to flush toilets
in a green building

REWATEC™

Rainwater harvesters



QUICK FACTS

Application

Municipal leisure centre
Beloeil, Québec

Needs

- rainwater for 17 toilets and two urinals
- ability to switch water sources
- discreet installation

Solution

Rewatec rainwater harvesting system

SITUATION

To meet the growing needs of the population of Beloeil, the City constructed a new leisure centre that matched its sustainable vision for the future.

To reduce drinking water consumption in the new building, the City planned to flush toilets and urinals with harvested rainwater whenever possible.

Building plans included a flat roof with a surface area of 1,850 m² (19,900 ft²). Rainwater had to be collected from this area and sent to a storage tank with a capacity large enough to permit long periods of water autonomy.

The rainwater harvesting system had to provide optimal pressure to the building's toilets and urinals. Just as importantly, it needed to automatically switch to municipal water when the storage tank was empty.

SOLUTION

The Lambda-Lainco consortium led the design of the new Beloeil Leisure Centre.

After careful study, its experts chose to install the Rewatec rainwater harvester with Premier Tech's proven technologies and support.

Reduces drinking water use by 70%!

Flat-roof drain

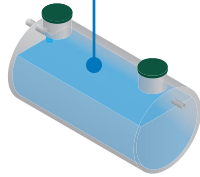
Collects rainwater and filters debris.



REWATEC

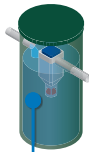
Underground water tank

Provides 17,000 L (4,490 US gal) of rainwater storage capacity.



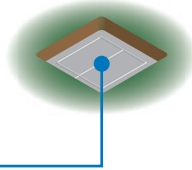
Filtration chamber

Removes small particles to protect system components and plumbing fixtures.



Infiltration well

Allows rainwater to percolate through soil when the storage tank is full.



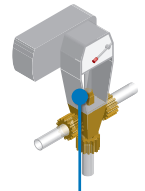
Pump and water pressure tank

Draws rainwater from the storage tank and provides optimal pressure to supply toilets and urinals.



Solenoid valve

Automatically switches to municipal water when the storage tank is empty.



"We are thrilled with Premier Tech's rainwater harvester. It is simple to use and easy to maintain. Best of all, it helps us use 70% less drinking water!"

Daniel Marineau
Director of Recreation, Culture, and Community Life
City of Beloeil



WE ARE HERE TO HELP

Contact us today to discover how our rainwater harvesting solutions can make a lasting difference for your residential, commercial, or municipal property.



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