

INTERCONNEXION

Evolgen's Lièvre Region Newsletter

Summer 2022

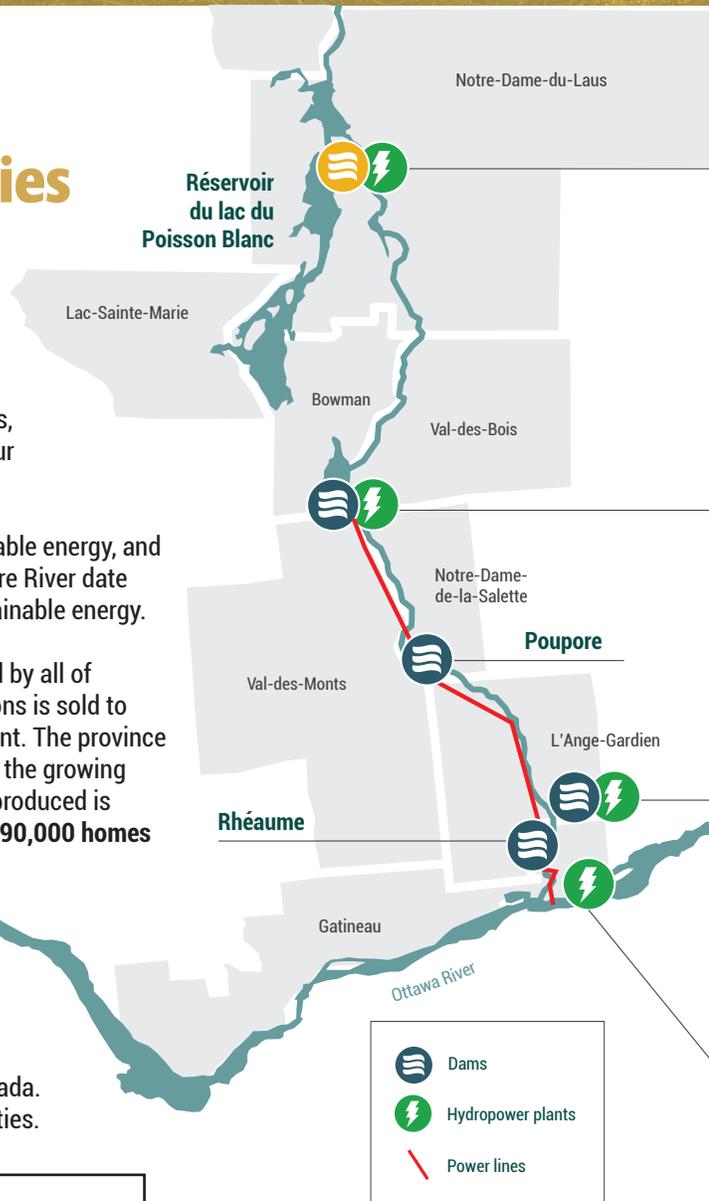
Local Energy for Local Communities

The shift towards low-carbon energy is accelerating. The demand for clean electricity will continue to grow over the coming years, both in Quebec and around the world. Megawatts will be needed to power homes, electric vehicles, factories and lots of other activities in our daily lives.

Evolgen is a leading producer of renewable energy, and its roots in power generation on the Lièvre River date back to the 1920s. Clean, safe and sustainable energy.

As of this winter, the electricity produced by all of Evolgen's Lièvre River generating stations is sold to Hydro-Québec under a 40-year agreement. The province will therefore be better prepared to meet the growing demand for electricity since the energy produced is equivalent to the consumption of nearly **90,000 homes per year**.

Evolgen employs 115 people in the region and will continue to safely operate the plants for the duration of the agreement. This is another step in the transition to a low-carbon future in Quebec and across Canada. Local energy produced for our communities.



Rapides-des-Cèdres 2005



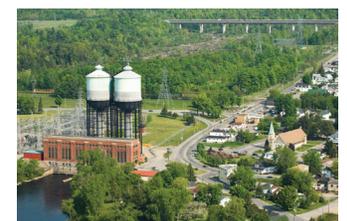
High Falls 1929



Dufferin 1959



Masson 1934



DID YOU KNOW?

Brookfield Renewable's North American head office is located in a LEED-certified building on Victoria St. in downtown Gatineau. **ALL OF ITS CANADIAN RENEWABLE ENERGY FACILITIES ARE MANAGED HERE.**

A Large Family

Evolgen, the Canadian business of Brookfield Renewable, owns and operates:



33
HYDROPOWER
FACILITIES



4
WIND
FARMS



24
SOLAR
FARMS



Photo: COBALI

Shallow areas are more vulnerable to damage from boating.

Smarter Boating for Smarter Lakes

With summer approaching, boaters are excited to get back out on the water. That means, now is the perfect opportunity to create positive habits that will help protect our beautiful bodies of water for generations to come.

Boating close to shore, especially at high speeds, creates large waves, the shoreline's biggest enemy. The wake stirs up sediment and causes shoreline erosion. Soil particles suspended in water degrade water quality, cause algal blooms and aquatic vegetation, and damage fish habitats.

THE ESCALIER RESERVOIR: Get to Know your Waterway

The *Escalier Reservoir* is a favourite amongst boaters. The section north of the Highway 307 bridge is shallow, with a rich diversity of native aquatic plants and aquatic and avian wildlife. Eurasian water milfoil, an invasive aquatic plant that spreads with human activity, is also found there. COBALI surveyed the site in the summer of 2021, with support from the municipality of Bowman, the Papineau RCM and Evolugen.

This summer, new informational signs will highlight the preferred channel between the Reservoir and Rouge Lake. This deeper channel is less likely to be impacted by eddies. In addition, a pamphlet, *Navigate the Escalier Reservoir!*, available on cobali.org and distributed at campsites and businesses, will provide information for cottagers.



Photo: COBALI

Humans and wildlife coexist in a fragile balance.

Tips for Smarter Boating



WATCH YOUR SPEED

High speeds and rapid acceleration produce stronger waves, especially near the shore. **Smooth starts and acceleration** prevent heavy turbulence.



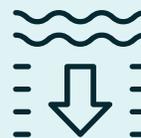
KNOW YOUR WATERWAY

Avoid areas with **aquatic vegetation**, a sensitive habitat for ducks, fish, turtles and many other species.



KEEP YOUR DISTANCE

Water ski boats produce wake that can extend up to **300 metres** on either side. The best place for this sport is in bodies of water that are at least **600 meters wide**.



THINK DEEP

The following minimum depths are recommended for different types of boats:

- 7 or more metres** water ski boat
- 5 or more metres** pleasure boat
- 2 or more metres** pontoon boat or personal watercraft



FOLLOW THE MAP

If you regularly travel in certain areas, get yourself a **bathymetric chart** that shows the depth of the water and any obstacles.



WASH YOUR BOAT

By **properly cleaning your boat** before and after visiting a lake or river, you help prevent the spread of alien invasive species.



100 students from three schools took action to protect and conserve their neighbourhood park.

Green Thumbs Up!

Lanthier Park, located in Buckingham in the city of Gatineau, is a little gem of greenery in the heart of the region. Last fall, the *Association des amis du quartier du parc Lanthier* invited students from three nearby schools as well as local residents to plant 100 trees to spruce it up a little.

"Education and awareness are very important to us," explains Charles Morin, the Association's president. "We wanted to give students the opportunity not only to plant trees, but to learn more about wildlife, plants and the environment. I think we accomplished that. The kids came away with a lot of new knowledge, and they realized that being a good citizen really does matter."

Evolugen's forest management specialists were on hand to help the students on planting day. With these new additions, the century-old forest has what it needs to sustain itself, under the watchful eye of locals. The project was made possible with the support of the City of Gatineau's Green Fund, the TD Friends of the Environment Foundation and Evolgen.



DID YOU KNOW?

Quebec is home to a growing number of century-old hydropower plants. At the age of 93, the High Falls plant in Bowman will soon be one of them. Few industrial facilities remain in production for such a long time. What are the secrets to their longevity?

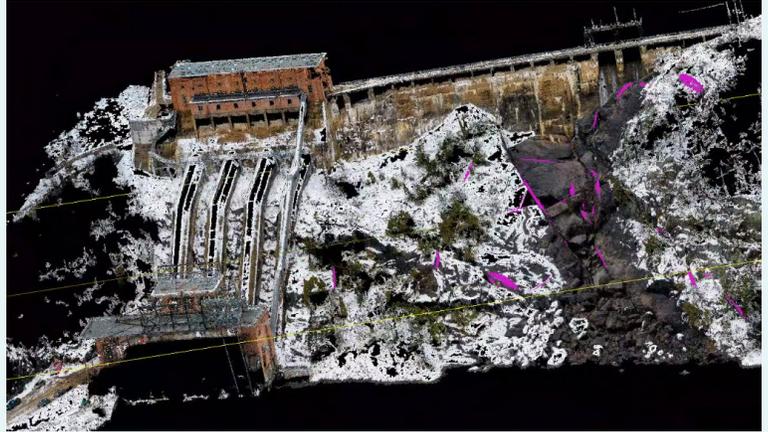


Image consisting of thousands of points recorded during a drone inspection.

THE FIRST: A product that never goes out style and whose environmental value is increasingly recognized. The energy produced by hydropower plants is essential to the transition to a greener future.

THE SECOND: Crews that take excellent care of the facilities. For dams and power plants, this means round-the-clock monitoring, best practices in maintenance, meticulous inspections and major investments in regular rehabilitation and modernization projects. They do everything to ensure safe and optimal operation at all times.



High Falls Dam

THE LANDSCAPE WON'T BE CHANGING ANY TIME SOON: Thanks to its employees based here in the Lièvre region, Evolgen intends to continue operating its plants for many more decades.



WATCH OUT: DANGER LURKS!

Our fearless fisherman is probably very happy with his catch, but without knowing it, he had a close call. This floating boom of buoys near a dam marks a potentially dangerous area of turbulence, often invisible beneath a calm surface. Never take your boat or swim across a boom. Keep your distance from the dams. There are so many other beautiful and safe places to explore in our region!



Summer 2050: hot, hot, hot!

WHAT WILL SUMMER 2050 LOOK LIKE?

What will summer 2050 look like? According to the forecast, the future is expected to bring hotter summers, three times the number of days with heat waves above 30°C and increasingly frequent heavy rains.

The amount of rainfall will not change much, but as it gets warmer, more of the water will evaporate. This means less water in lakes, rivers and the soil in the summer. So we all need to act now to prepare. Dam managers, including Evolgen, are studying the impact of climate change to be able to adapt to it in the years ahead.

Source: Conseil pour le développement de l'agriculture du Québec. Plan d'adaptation de l'agriculture de l'Outaouais et des Laurentides aux changements climatiques, 2021.



+2.7 °C

AVERAGE SUMMER TEMPERATURE INCREASE

in the Outaouais and Laurentians by 2050, compared to 1981-2010.



+19 DAYS (OUTAOUAIS)

+16 DAYS (LAURENTIANS)

INCREASE IN NUMBER OF DAYS

at 30°C or higher in the summer.

Historical average: 9 days in the Outaouais and 5 in the Laurentians.



+ Heavy rain

AND THUNDERSTORMS

More intense rain events.



INFO LA LIÈVRE

If you have any questions or comments about Evolgen's Lièvre region operations, call Info La Lièvre at **819-986-4628, 1-877-986-4364** (toll free) or send us an email at infolievre@evolugen.com.

STAY INFORMED • For more information on water levels, visit us at lievreriverpower.com