

Case Study:



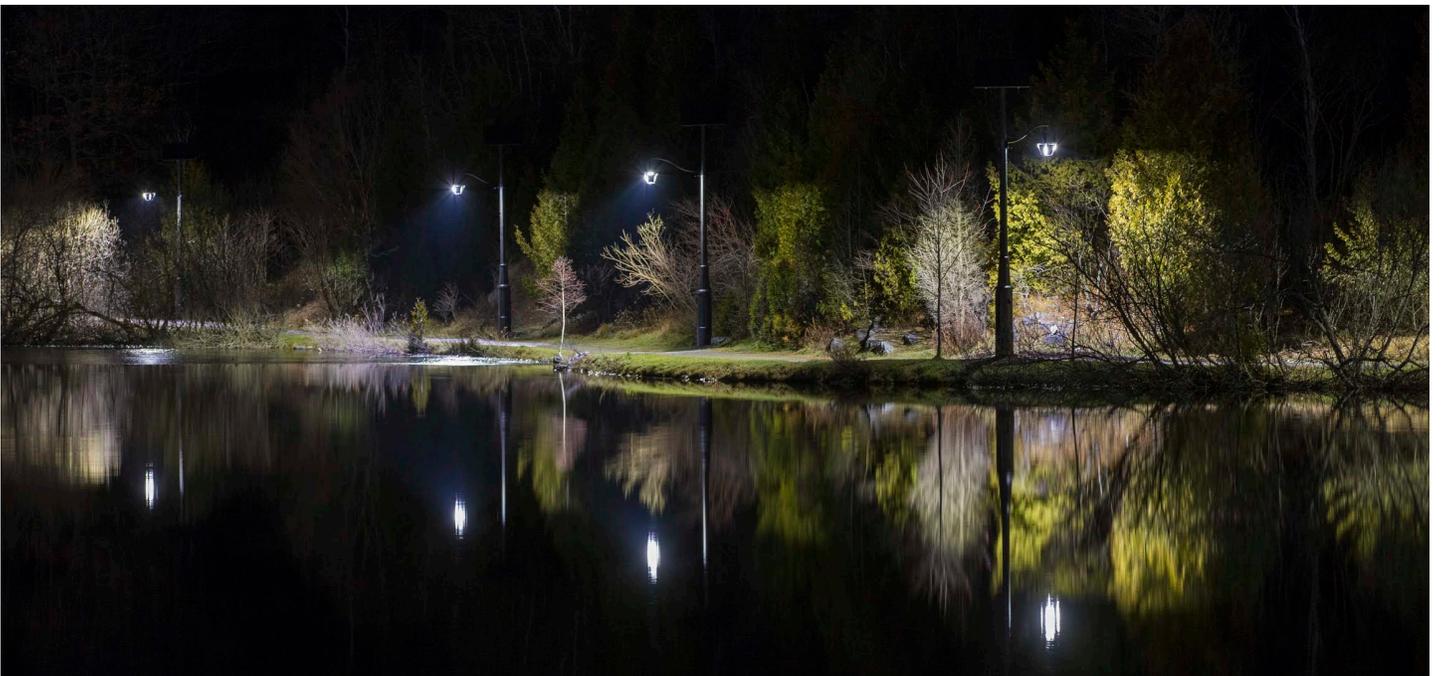
ILLUMIENT
Smart Off-Grid Lighting



Incorporated in 1785, Saint John is the largest city in New Brunswick, with a population of approximately 70,000. It is centrally located on the southern New Brunswick Coast on the beautiful Bay of Fundy.

Saint John is home to an “uptown” core, where historic buildings dot the banks of the St. John River and the Saint John Harbour. Rockwood Park is the hub of outdoor activities year round, and is enjoyed by many for its freshwater lakes for fishing, swimming, boating and skating. It has over 55 trails and footpaths, including Lily Lake trail. Since there was no lighting along Lily Lake trail, use of it becomes more limited during the winter months.

In order to make the trail usable for many more hours and extend its use throughout the year, the local utility, Saint John Energy, decided to look into options for solar-powered lighting.



Lily Lake with Illumient solar-powered lights



“This generous gift will enable park users to enjoy the trail for longer periods of time – especially in the winter.”

**Mel Norton, Mayor
City of Saint John**

Saint John Energy is owned by the City of Saint John though it operates entirely as a separate entity. Using traditional grid-connected electric power would have introduced significant problems. Putting in underground cables would have caused major disruption to the area, while running wires through the trees would have greatly disturbed the natural setting.

Instead, Saint John Energy personnel looked into solar lighting. After investigating a number of alternatives, they found Illumient.

The solution proposed and agreed to by Saint John Energy was to install 26 Illumient solar powered lights along the 1.38 km length of the Lily Lake Trail. 10 of the lights have inverters, which allow the solar power to provide auxiliary lighting for loads like Christmas lights.

One of the most important aspects of the decision to use Illumient lights was the unique Illumience Smart Off-Grid monitoring and control software. Illumience receives data around the clock from the lighting system, ensuring any issues can be resolved without impacting light operations and enabling proactive maintenance. Lighting profiles can be changed at any time over the Internet, optimizing the power and performance of the lights.



Monthly snapshot of one Lily Lake light

In a press release issued by Saint John Energy, Ray Robinson, President & CEO said *“Energy efficiency continues to be a focus for Saint John Energy. This system demonstrates our commitment to energy efficiency and we can’t think of a better place to introduce this leading edge technology than at Rockwood Park -- one of the jewels of Saint John.”*