



Canada school energy storage

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After talking for a while, they thought that there must be several other McGill researchers interested in such questions, and the idea of a Centre came about. In May 2021, the McGill Centre for Innovation in Storage and Conversion of Energy (McISCE) was created.

The Centre's mission encompasses research and technology development as well as impact assessments, outreach, and communications. The top priorities are the training of students, and the development and transfer of novel sustainable practices and technologies to society.

Soon after its creation, the Centre was awarded \$2M from TD Bank's Ready Commitment fund to support its initial phases of development. Now, it's time for the Centre to start growing.

The Centre undertakes cutting-edge research in transformative energy storage and conversion technologies and provides students with the best training in science, engineering, and impact assessment to support the energy transition.

Rodan Energy Solutions participated in Canada's first carbon-neutral school project, working alongside leading cleantech integrator Ameresco. The John Paul II Secondary School microgrid project, which included 2,700 solar panels on covered carports connected to a Tesla energy storage system, officially announced its commercial operation at the school's ribbon-cutting ceremony on November 2, 2021. Rodan's Energent Energy Optimizer(TM) serves as a key enabling technology for this microgrid project, optimizing how electricity is provided to the school.

As experts in energy markets and IESO energy programs, Rodan built algorithms were used in Ameresco's Energy-as-a-Service financial model to maximize the school's economic potential through continuous and real-time optimization of the energies of solar panels and battery energy storage system. Not only has the school become completely energy self-sufficient, but the microgrid project has delivered significant cost savings from a 68% reduction in baseline electricity costs.

As a proponent of creating a sustainable energy future, Rodan Energy Solutions is continually working on innovative applications and developing new technology to support the viability of energy-efficient facilities and net-zero initiatives. The success at John Paul II Secondary School showcases that next level energy sustainability is indeed attainable.

Our mission is Making Sustainable, Attainable(TM) by creating and delivering intelligent energy solutions to large consumers, distributors, and power distributors and energy generators.

The \$9.7 million project saw 2,700 carport solar panels installed throughout the parking lots of John Paul II



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Secondary School. They provide 825 kWDC of power to a battery system that will heat, cool and provide electricity.

The London Catholic District School Board held a ribbon-cutting ceremony outside the school on Tuesday to celebrate. It funded more than half of the project with the federal and provincial governments contributing \$4.8 million.

"It's a great learning opportunity for our students, as well as an introduction to carbon reduction generally," said principal Peter Cassidy. "These students have been very interested over time about how the project was proceeding, and I think they're even more interested in what the potential is after the project's over."

Jim Fonger, vice president of asset and advanced technologies for Ameresco, said that John Paul II is now the prototype for future projects. Plans for a second carbon neutral school are now in the works with a school board in Sudbury, Ont.

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