



# St John s home energy storage

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In 2021, SECC will be recognizing a member each month, providing an organizational profile and highlighting the member's accomplishments and output in the smart energy space.

Saint John Energy is a progressive Canadian energy company serving Saint John, New Brunswick. Locally owned and operated since 1922, the company provides trusted energy solutions to more than 36,000 residential and business customers. One of the highest-rated electric utilities in the nation for reliability and customer satisfaction, it holds the coveted Sustainable Electricity Company designation and is recognized as one of the most innovative utilities in Canada.

As Saint John Energy nears a century of service, it is creating the utility of the future for its customers - driving innovation in smart energy products, forging new renewable energy opportunities and developing advanced artificial intelligence to create a smart grid for the city.

With its Smart Energy Project, it is leveraging artificial intelligence and other technologies to advance Saint John's electric grid and to connect its evolving smart energy product line.

Its advanced smart grid will allow it to manage and shift peak demand by relying on artificial intelligence, weather forecasts and other data to smooth peak energy events. As it softens peak demand, it will help its wholesale supplier of electricity lower GHG emissions associated with high-emitting generation plants brought online in times of peak demand.

Saint John Energy's smart grid is ushering in a broad array of intelligent devices and products - from hot water heaters to heat pumps, smart thermostats, advanced batteries and home electric vehicle chargers.

Saint John Energy is partnering with wind energy developer Natural Forces to establish the first large-scale wind project in the city - a \$60 million venture that will supply up to 43 megawatts of low-cost, clean energy.

Burchill not only will allow the company to accelerate the shift to green energy, it also reduces the utility's reliance on generation from outside its territory and is expected to generate significant savings in power purchasing.

The company is also exploring new solar energy projects, including the feasibility of a community solar garden. The large-scale, ground-mounted solar array would allow its customers to rent solar panels in the array and have the generation from those panels credited to their power bills.

As part of its innovative agenda, Saint John Energy is exploring and adopting leading-edge energy storage solutions.



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In late 2019, it became the first in the world to deploy a Tesla Megapack. The state-of-the-art 1.25 MW/2.5 MWh battery allows the company to manage peak energy in new ways, saving money and curbing carbon emissions along the way.

The massive 51,000-pound battery, which stores enough electricity to power more than 100 homes for two hours, is the sort of technology that will help the company manage the intermittent nature of renewable energy generation, including its wind and solar projects.

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