



NRStor Project Spotlight:

MPOWER

The Evolution of Household Energy and Reliability

Many Canadian families are struggling to adjust to rapidly increasing electricity prices. As monthly bills continue to rise, one would expect the quality of power to continue to improve. However, given the increasing demands placed on our electricity grid, and more unpredictable weather patterns, many Canadians find themselves also facing more frequent blackouts.

With so many consumers searching for ways to decrease costs and increase resiliency and reliability, it's no wonder why residential battery solutions have become such an attractive alternative.

MPOWER and NRStor

MPOWER is a joint venture between NRStor and Opus One Solutions. In 2015, MPOWER partnered with Tesla to launch Powerwall across Canada. The Powerwall is a rechargeable lithium ion battery that stores energy from solar or the grid and makes it available on demand. Suitable for light commercial or residential use, the system's electrical interface provides a simple connection to any home or building. The Powerwall is able to facilitate energy optimization (storing energy during low-cost times and discharging during peak hours), and also backup power in the event of an outage.



A standard installation of a single Powerwall can typically provide 24 hours of backup power for common household needs



Powerwall Installation

NRStor works with MPOWER to assist households in determining the best Powerwall configurations. Families can choose to install a single Powerwall, or several at a time for added capacity.

The installation of a Powerwall system includes:

Powerwall

- 5 kW/13.5 kWh battery with integrated inverter

Backup Energy Gateway

- Tesla's support hardware that allows you to monitor, control, and update your Powerwall via the Tesla app.

Materials

- Conduit, cable, sub-panels, breakers, disconnects, etc.

Solar

- Optional

Once the correct system configuration has been chosen, the system is shipped from MPOWER's Canadian warehouse. MPOWER secures permits from regional electrical safety committee, and then informs the consumer of the connection charges from the utility. Certified installers are licensed electricians, trained and supported by both MPOWER and Tesla.

Delivering Cost Savings and Affordable Resiliency

In addition to the full-service installation and sale of Powerwalls, and in conjunction with Enbridge and Toronto Hydro, NRStor and MPOWER are offering an "affordable resiliency" rental program to select eligible customers in Toronto. Powerwall will infrequently be used – along with other Powerwall customers in neighbourhoods – to help solve major system issues. The result is a significant subsidy to customers, estimated to reduce overall system costs by ~50-70% (compared to a direct purchase MSRP). Customers will pay an initial \$1,499 connection payment, and then enter into a \$29/mo rental on a ten year contract.

In addition to overall cost savings, a standard installation of a single Powerwall can typically provide 24 hours of backup power for equipment such as:

- Fridge
- Lighting for 6 rooms
- Gas furnace fan
- 4 cell phones and 2 laptops
- Modem (WiFi)

About NRStor

NRStor develops, owns, and operates industry-leading energy storage projects in partnership with progressive stakeholders and leading technology providers.

Contact NRStor today to learn more about our residential solutions.

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