Panasonic

RESIDENTIAL ENERGY STORAGE SOLUTIONS



Clean Solar Energy When You Want It. How You Want It.

WHY PANASONIC?

RESIDENTIAL ENERGY STORAGE SOLUTIONS The next evolution in residential solar energy

With over 80 years of experience, Panasonic continues to push the boundaries of technological innovation. Through our residential energy storage solutions, we offer cost-effective, secure energy alternatives for Canadian consumers and local distribution companies who crave flexibility and control. To this rapidly growing energy sector, Panasonic brings a strong heritage in Lithium-ion battery technology.

BENEFITS TO CONSUMERS

The modern, savvy Canadian consumer demands an environmentally focused energy solution that eases the burden of energy costs – especially during peak periods. Panasonic's Residential Energy Storage Solutions provide increased savings on monthly bills, while supplying clean energy generated directly from a home solar PV system and lower cost electricity stored during off-peak hours. In addition, the battery storage system provides critical back-up power during grid outages or blackouts.

BENEFITS TO LOCAL DISTRIBUTION COMPANIES

Local distribution companies (LDCs) can now offer a quality, costeffective product that meets the current trend in clean, solar energy technology. By supplying the consumer with Panasonic's Residential Energy Storage Solutions, LDCs are able to offer savings to their clients, who can better manage their energy usage during peak periods. In turn, LDCs, will benefit from greater grid stability as demand response during peak hours becomes easier to handle. Additional benefits also include savings to LDCs on costly capital investment in utility infrastructure for network upgrades, including transformers.



PANASONIC NUMBER 1 ELECTRONIC GREEN BRAND

Interbrand, the US brand consulting company, announced on June 24, 2014 that Panasonic ranks No. 1 in the Electronics Sector for the "Best Global Green Brands 2014". An Excellent Green Brand is defined as achieving a good balance between Green Perception (consumers' image of an eco-brand) and Green Performance (a company's environmental management practices). Panasonic's Green Performance was evaluated as being especially high, with excellent marks going to "Products and Services," "Governance," and "Transportation and Logistics."

FULL END-TO-END INSTALLATION SERVICES

Panasonic provides a full turn-key residential energy storage solution. As an Engineering, Procurement, and Construction (EPC) company, Panasonic Eco Solutions Canada conducts all the required structural and electrical engineering work, procures all equipment required for the system including the solar panels, racking, hybrid inverter, battery unit, and monitoring software. We look after the entire installation until the system is connected to the grid. Our technicians provide on-site customer support and training to ensure the system is used in the most beneficial way for the homeowner.

Our end-to-end service includes:

- Site feasibility analysis
- Net metering application
- System design
- Electrical and structural work
- Back up load panel design
- Installation of all equipment
- ESA inspection
- Bidirectional meter
- Customer training and support

BATTERY STORAGE SYSTEM

Panasonic Teams Up with Tabuchi Electric to Bring Consumers the Best In Solar Energy Storage Solutions.

A world leader in solar inverter technology, Tabuchi Electric brings Canadian consumers an Intelligent Battery System, comprised of a hybrid solar inverter & lithium-ion battery.

System Features:

- 3 MPPT 5.5kW Solar
 Inverter
- Bi-directional DC to DC battery converter
- Automatic Transfer Switch
- Battery Charge Controller (Battery Management System)



 10kWh Lithium Ion Battery Pack



HOW IT WORKS

THE ULTIMATE CONTROL

Equipped with a Remote Controller, Canadian consumers have the ability to set the battery system for charging and discharging whenever desired and reserve power in case of blackouts. Consumers can easily adjust the system as energy needs fluctuate and confirm proper functioning through accurate monitoring software and energy data reports.

- Remote controlled system
- Monitor energy usage
- Check battery status
- Set charge/discharge times
- Data Reporting
- Reserve energy for blackouts

CLEAN ENERGY ANYTIME

The lithium-ion battery system is an extremely efficient way to manage and distribute solar energy. By storing excess power during off-peak hours, when electricity costs are at their lowest, consumers can enjoy clean energy during peak times while benefitting from a reduction in monthly costs.

- Store energy during off-peak hours
- Avoid high time of use costs during peak times
- Enjoy clean energy 24/7
- Reduce monthly bills



DECIDE WHEN TO CHARGE AND DISCHARGE

By adjusting the settings on the Remote Controller, consumers can choose when to charge the battery and when to use its stored energy. The lithium-ion battery will only function during those designated times. When not in use, the system will not deploy additional power to the electricity grid.

- Charge/discharge battery at consumer's convenience
- Accurately set designated times of usage
- Idle mode does not deploy any electricity back to the grid

NEED BACK-UP?

Panasonic's Residential Energy Storage Solutions allow Canadian consumers to remain confident during occasional blackouts and other related emergencies by reserving solar energy for when the unexpected happens. Plus, remaining battery power intended for normal usage can be applied to the emergency reserve.

- Plan ahead for emergencies
- Provide vital electricity to backup loads of the household
- Apply day's remaining energy to blackout reserve

To learn more, please go to go.panasonic.ca/energystorage

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