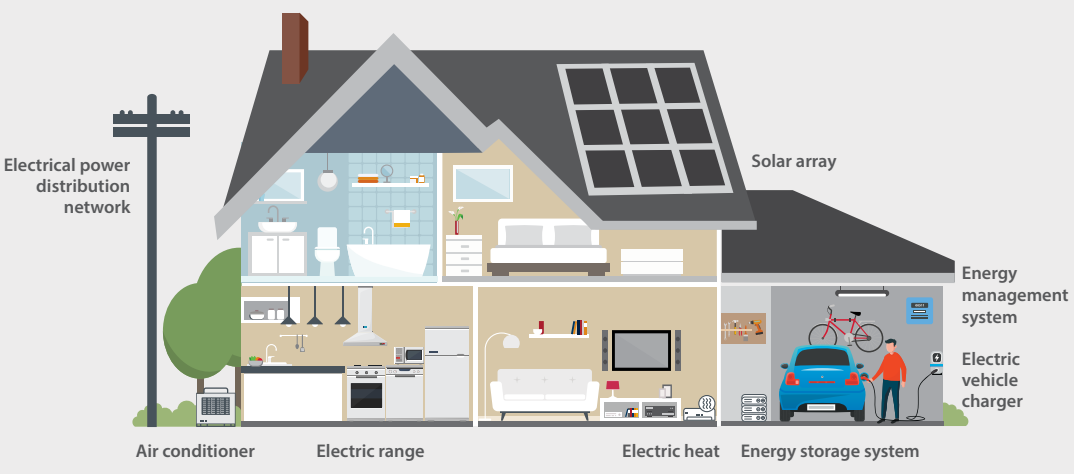
Energy Management System (EMS) installation safety checklist



Make sure your EMS is set up safely — ask your installer these key questions:

	YES	NO
Is the Energy Management System (EMS) for more than just Electric Vehicle (EV) charging?	○	○

If yes, can you confirm that it meets these three (3) requirements?

	YES	NO
Are other loads allowed?	○	○

The energy system manufacturer must clearly say if the equipment can also be used for equipment other than electric vehicle charging.

	YES	NO
Is your EMS rated to support higher-demand equipment like hot tubs?	○	○

Check if the manufacturer explicitly lists support for equipment like Heating, Ventilation, and Air Conditioning (HVAC) systems, hot tubs, or heat pumps. These devices require a specific rating for starting. HP (horsepower) or inductive load rating tells you whether the system can safely handle the extra power these devices need when they start up.

	YES	NO
Can your system control solar panels and has the manufacturer confirmed they are compatible?	○	○

If your EMS controls your solar panels, only use PV (Photovoltaic) named in the manufacturer's instructions to ensure compatibility. Solar panels added to your home feed electricity into your electrical panel—just like power from the grid. To prevent overloading and ensure safety, the Canadian Electrical Code (CE Code 64-112) limits the total power output for your electrical panel to no more than 125% of its rated capacity. Your EMS system must ensure your system stays within this 125% limit.

	YES	NO
Does the equipment you are installing have a *Fail-safe* feature?	○	○

Fail Safe means that if something goes wrong (like equipment malfunctioning), the system will automatically shut off or reduce the power to prevent overloading the circuit (CE Code Rule 8-104: The total electrical load must not be more than what the circuit can safely handle). This helps protect your home from electrical hazards like overheating or fire.

	YES	NO
Did you complete the field functioning test after installation?	○	○

The manufacturer is to provide a test procedure that the installer will do to make sure the equipment is functioning correctly after installation. This test is called a *Field Functional Testing* (Func. Test) and is usually described in the *Commissioning*, *Startup*, or *Installation* section of the manufacturer's instructions or technical manual.

	YES	NO
Can you confirm that the Configuration Protected (Config. Protected) settings are in place?	○	○

Some settings on the equipment should only be adjusted by trained/authorized people. These settings might be hidden behind a panel (like dip switches) or protected by a password in the software. Changing these settings could cause a risk of fire! Ask your installer to ensure that the setting is configured to avoid this situation.

Your installer must be able to answer YES to all questions to ensure a safe and compliant Energy Management System.

Energy Management Systems may also be referred to as Power Control Systems (PCS).

Check out the full list of certified and City-accepted Electric Vehicle Energy Management System (EVEMS) and Energy Management System (EMS) models.

View list >

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