



Off-Grid Power Solutions for Trucks & Adventure Vehicles General Information & FAQ

What is an off-grid power system?

An off-grid power system allows you to generate, store, and use electricity in your truck or adventure vehicle without relying on campsite hookups. Using solar panels, batteries, and smart charging systems, you can run fridges, lights, laptops, and other equipment—whether you're deep in the backcountry or parked by the beach.

What equipment is included?

Typical installations include:

- Leisure Battery – A dedicated deep-cycle battery that powers your accessories separately from your vehicle's starter battery.
- Solar Panels – Mounted to your vehicle to provide renewable charging while you're off the grid.
- DC-DC Controller – Ensures your leisure battery is safely charged from your vehicle's alternator while driving.
- Voltage Sensitive Relay (VSR) – Protects your starter battery by connecting/disconnecting automatically based on voltage.
- Inverter – Converts stored 12V DC power into 110V AC, allowing you to plug in household devices and small appliances.

How long does installation take?

Most mid-level systems require about 2 days (~16 hours) of professional installation, depending on vehicle type and complexity. Larger or more customized setups may require additional time.

How much does it cost?

Prices vary depending on battery type (AGM vs. lithium), solar wattage, inverter size, and other options. As a general guide:

- Basic setups start around \$5,000.
- Mid-level systems range from \$7,500



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- Full off-grid packages with large lithium banks and high-wattage solar can reach \$10,000+

Can I expand later?

Yes, with limitations. Our systems are designed with scalability in mind. You can start with a single battery and solar panel, then add more capacity, panels, or a larger inverter as your needs grow.

What can I power?

- LED lighting, fans, and water pumps
- 12V fridges and coolers
- Laptops, phones, and camera gear
- Small household appliances (via inverter), such as coffee makers or power tools (depending on system size)

Why choose Coastal BC Home Services Ltd.?

- Professional installation with attention to safety and durability
- Clean, organized wiring and secure mounting for long-term reliability
- Locally owned and operated, serving White Rock, Surrey, Langley, and the BC Coast
- Friendly advice and after-installation support

Ready to power your adventures?

Let us help you design the right off-grid system for your truck or adventure vehicle.

 Call us today at (604) 312-1164

 Visit us online: www.coastalhs.ca

Coastal BC Home Services Ltd. — Reliable power, wherever the road takes you.