



Superlite

SOLAR-ELECTRIC SYSTEMS

By Renewable Innovations & Solutions Ltd

**HYBRID GREEN ENERGY
FOR THE AUTOMOTIVE INDUSTRY**

www.renewableinnovations.solutions

SOLAR-ELECTRIC

A revolutionary hybrid energy system for the automotive industry.

Clean, green energy systems providing power on commercial vehicles. For example, temperature-controlled units, vehicle mounted forklifts, mobile studios, broadcast units and more.

What is solar-electric?

Our hybrid system generates power from lightweight, high-power custom-sized solar panels and stores it in lightweight lithium batteries. This amount of stored power can provide power for various uses onboard a commercial vehicle. It will comfortably run a refrigeration unit of any size including multi-chamber and double-deck units.

The battery pack can be sized to suit the required run time of the fridge.

For example, on a trailer it can be expanded at any time by installing additional batteries. This installation can be carried out by competent staff in as little as 15mins.

Charging of the system can be either 32-amp 3 phase or 240v single phase. The system will rapid charge on a 32 amp socket and is also capable of charging whilst pulling the fridge down to temperature.

The background of the entire page is a blue-tinted photograph of a multi-lane highway stretching into the distance. In the foreground, a large white semi-truck is driving away from the viewer. The roof of the truck's trailer is covered with a large array of dark solar panels. Another truck is visible further down the road. The sky is blue with some white clouds.

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How is it installed?

It is a simple plug and play system. The main part of the system is a neat electronics box that is either fitted in the cab or on larger vehicles underneath the main body work.

Solar Panels

Totally unique to RIS these are a patented design and the first solar panel specifically optimised to sit flat, whilst providing maximum power even when the light is hitting the panel at shallow angles.

With no fixings to penetrate the bodywork and external wiring, the solar fits flush to the vehicles roof, being tough and flexible the panels can accommodate curved roof surfaces.



What are the Key Benefits?

- Low cost, short payback times
- Saving on fuel and servicing
- Zero emissions
- Quick and easy to install
- Retro fit or fit new
- Available on finance

Trailers can retain the diesel drive and install our space + weight-saving 50 L fuel tank as an emergency backup/range extender should it ever be required.

Some city authorities are preparing to start charging diesel driven reefer units. Our zero-emissions units are exempt from such charges.

Available for the whole fleet range – from the smallest to the largest refrigerated vehicle.

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