

SOLAR BUS KIT

Info Sheet

SONO  MOTORS



SOLAR BUS KIT

The **Solar Bus Kit** is a **ready-to-install solar integration** product specifically tailored for Buses, powering **electrical consumers like HVAC** and charging the **vehicle battery**

Up to 2000 kWh of solar energy per bus and year

Fuel savings of 3% and more depending on region and city



Solar integration addresses the current challenges in public transport:

- High energy demand for heating, ventilation and air conditioning (HVAC)
- Increasing diesel and energy prices
- Urban pollution

The Solar Bus Kit - made for retrofitting and original equipment



TOTAL COST OF OWNERSHIP (TCO)

diesel and energy savings by reduced alternator load



SUSTAINABLE

mobile energy supply for reduced urban emissions

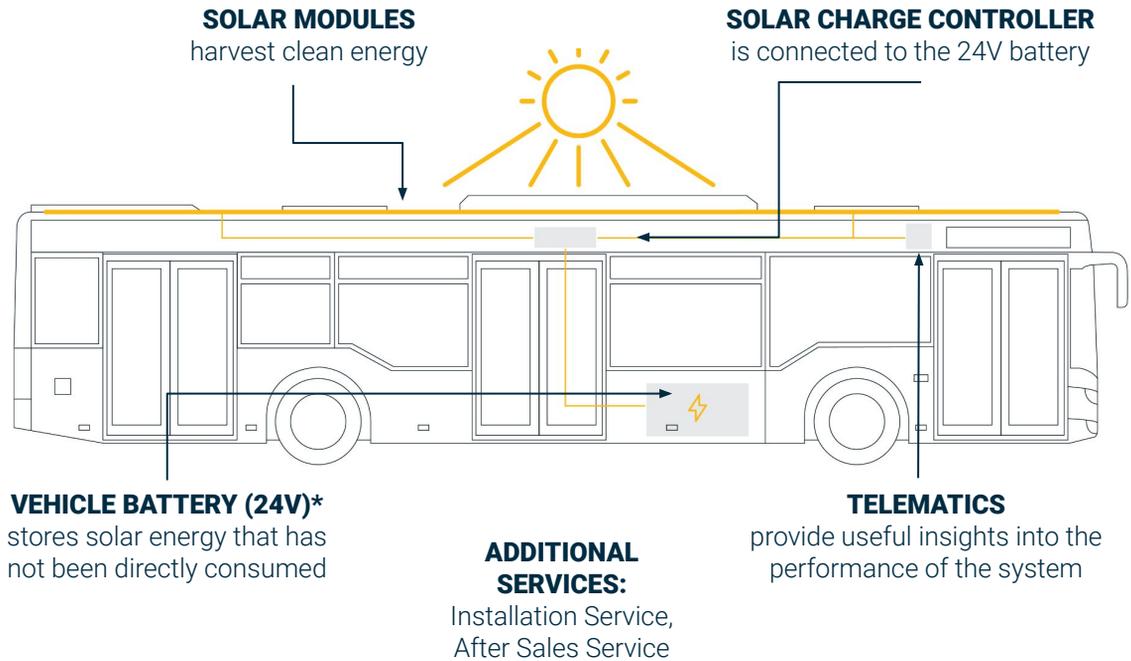


FUNDING

the Solar Bus Kit may qualify for local clean air funds.

Harness the Power of the Sun to save on Fuel and CO₂

SYSTEM OVERVIEW



TECHNICAL HIGHLIGHTS

-  16 monocrystalline Si-Solar-Modules (cell efficiency 22%) deliver ~1.4 kWp power
-  8 channel MPPT** solar charge controller, specially designed for solar on vehicles
-  Solar Yield Monitoring and system control via telematics & dashboard
-  Safety first. Electrical system voltage stays under all conditions below 60V.
-  Thin, robust and lightweight: in total <50 kg
-  Fast installation time, suitable for various bus roof layouts

ENERGY EARNINGS & SAVINGS***

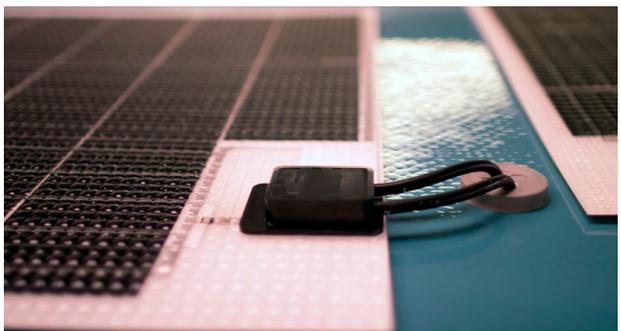
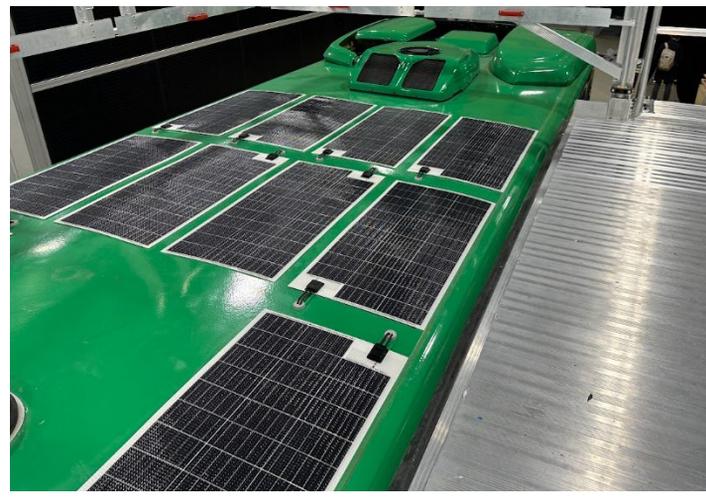
-  3.5 kWh (average), 5.2 kWh (summer average) in Munich, per Kit per day
-  Payback time of 3-6 years depending on region and order volume
-  directly supplying 24V bord net consumers and battery with high efficiency
-  Enhanced battery lifetime
-  ~ 3% diesel savings for Munich; even more in Southern regions
-  Possible subsidies & government grants

*24V Battery not included in the offering
 **MPPT = Maximum Power Point Tracking
 ***all numbers based on Internal calculations, actual numbers may vary

The Solar Bus Kit - **Ready for delivery**



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ABOUT SONO MOTORS

Sono Motors has been pioneering in developing solar integration technology for vehicles to propel their Solar Electric Vehicle - the Sion - with highest efficiency. The technology has now progressed to enable more sustainable mobility for a variety of commercial vehicles – including buses, trucks, trailers – to reduce CO2 emissions and provide added value by the abundant energy of the sun.

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