

# REFRIGERATED VEHICLES

SOLAR INTEGRATION

Information Sheet



**SONO SOLAR**

# Significant Potential of Solar Integration for Refrigerated Trailers

**SOLAR INTEGRATION ADDRESSES THE CURRENT INDUSTRY CHALLENGES:**

- High energy demand for cooling units of refrigerated vehicles
- Unstable and increasing energy prices for both power from electricity and diesel
- Limited electric vehicle range and missing charging infrastructure
- Regulation on emissions and urban pollution

**BENEFITS OF SOLAR INTEGRATION: SOLAR INTEGRATION:****REDUCED COSTS**

of energy compared to power from the grid or diesel, thereby reduced TCO

**SUSTAINABLE**

solar energy for reduced emissions and extended battery lifetime

**EFFICIENT**

with extended range, longer operating hours and reduced idle time

**UP TO 82 KWH PER DAY  
FOR A TRUCK WITH A SOLAR  
INTEGRATED TRAILER**

**COVER UP TO 50% OF THE YEARLY  
ENERGY DEMAND WITH SOLAR**

**SONO SOLAR**

# One-Stop Shop for Solar Integration

**HIGH ENERGY EARNINGS**

For a 13 m+ trailer  
Roof only: up to 38 kWh/day\*  
Sides & roof: up to 82 kWh/day\*

\* under peak conditions in Munich

**LIGHT-WEIGHT**

4 – 6 kg per sqm, with further  
reductions planned

**THIN SOLUTION**

~ 4 mm PV panel

**INTELLIGENT POWER ELECTRONICS**

for best-in-class energy yields

**UNIQUE EXPERTISE**

both in automotive and photovoltaics

**CUSTOMIZED INTEGRATION**

with a range of PV applications

**SONO SOLAR IS A ONE-STOP SHOP FOR TRANSFORMING YOUR VEHICLES INTO SOLAR ELECTRIC VEHICLES VIA THE COMBINATION OF OUR INNOVATIVE TECHNOLOGY AND EXPERTISE.**

We offer a complete solution, and we partner with you from a first-step prototype, to series production and after-sales service.

- Solar panels
- Power electronics
- Telematics & data service
- Hardware integration
- After-sales service







## ABOUT SONO MOTORS

Sono Motors is on a pioneering mission to accelerate the revolution of mobility by making every vehicle solar. Sono Motors' disruptive solar technology has been engineered to be seamlessly integrated into a variety of vehicle architectures — including buses, trucks, trailers, and more — to extend range and reduce fuel costs as well as the impact of CO<sub>2</sub> emissions, paving the way for climate-friendly mobility.

---

## SONO MOTORS GMBH

Waldmeisterstrasse 76  
80935 Munich | Germany  
**T** +49 (0)89 45 205 818  
**E** [solar-integration@sonomotors.com](mailto:solar-integration@sonomotors.com)  
**W** [sonomotors.com/solar-integration](https://sonomotors.com/solar-integration)

VAT DE305560734  
District Court Munich HRB 224131  
Managing Directors: Laurin Hahn, Jona Christians,  
Torsten Kiedel, Thomas Hausch, Markus Volmer  
© Sono Motors 2022

## CONTACT US



**GÜNTER OFFELNOTTO**  
Senior Business Development Manager  
**E** [guenter.offelnotto@sonomotors.com](mailto:guenter.offelnotto@sonomotors.com)  
**T** +49 157 806 521 09