

# BUSES

SOLAR INTEGRATION

Information sheet



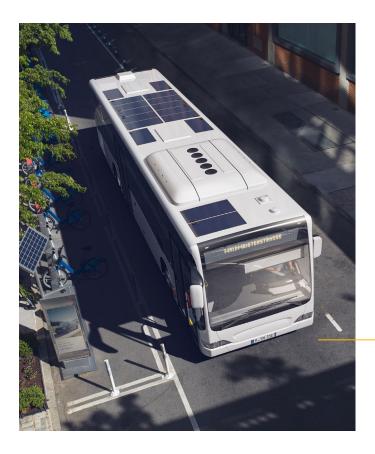


# **SONO SOLAR**

# Significant Potential of Solar Integration for Diesel & Electric Buses

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

- Range and charging limitations for electric buses
- Increasing energy prices for both power from the grid and diesel
- Regulation and standards on emissions for diesel buses
- Limits on urban pollution



# **BENEFITS OF SOLAR INTEGRATION:**



# **REDUCED COSTS**

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



# **SUSTAINABLE**

solar energy for reduced urban emissions and extended battery lifetime



# **EFFICIENT**

for extended range, longer operating hours, fewer charging cycles, and solarpowered HVAC

Ø 7.7 KWH\* ENERGY YIELDS PER DAY FOR A 12 M E-BUS

**SAVINGS OF UP TO 1,500 LITERS\*** OF DIESEL FOR A 12 M DIESEL BUS

\* Internal calculations



#### **SONO SOLAR**

# The One-Stop Shop for Solar Integration



#### **HIGH ENERGY EARNINGS**

12 m city bus with PV Retrofit Diesel Bus: Ø 3.5 kWh / day\* Full Integration E-Bus: Ø 7.7 kWh/day\*\*

- \* Installation on roof, yearly average
- \*\* Installation on roof and shoulders, yearly average



### **LIGHT-WEIGHT**

3-6kg per sqm, with further reductions planned



# **THIN SOLUTION**

~ 3.5 mm PV panels



#### INTELLIGENT POWER ELECTRONICS

for best-in-class energy yields for LV and HV power supply



#### **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.

- High efficiency solar panels
- Intelligent power electronics
- Telematics & data service
- Customized 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**

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# **CONTACT US**



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