

# Heavy truck solar power generation

Is solar-powered truck development the future of transport?

Eric Falkgrim is the project manager of Scania's solar-powered truck development. He explains why this cutting-edge technology holds real promise for the future transport system. Scania's intensive development of tomorrow's electrified transport solutions is inspiring many new technological ideas.

Can high-voltage solar modules be used for heavy-duty trucks?

Researchers at Germany's Fraunhofer Institute for Solar Energy Systems ISE have started testing the high-voltage solar modules they developed in partnership with industrial clients for heavy-duty trucks, as part of the Lade-PV project launched in April 2020.

How much power does a solar truck produce?

Technically, the truck is a 560-horsepower plug-in hybrid with 100 m<sup>2</sup> of thin, lightweight and flexible solar panels covered on its 18-meter-long trailer. Together, the solar array can reach a maximum power rate of 13.2 kWp and is estimated to produce 8,000 kWh per year when operated under the climate and irradiation conditions in Sweden.

Could a solar power truck be the answer to decarbonising haulage?

Could the world's first solar power truck be the answer to decarbonising haulage? Swedish manufacturer Scania has developed a haulage trailer fitted with solar panels which could decarbonise existing trucks. Transport in Europe accounts for around 25 per cent of the continent's carbon emissions.

Could a solar-powered hybrid truck be a beacon for sustainable transportation?

Scania partners with Midsummer and other leaders to test the first solar-powered hybrid truck on public roads. This 560-horsepower plug-in vehicle features a 100 m<sup>2</sup> solar array on its 18-meter trailer. With an estimated 5,000 km of extended driving range annually in Sweden, the project stands as a beacon for sustainable transportation.

Can Scania develop a solar-powered truck?

Scania's intensive development of tomorrow's electrified transport solutions is inspiring many new technological ideas. One of those is a project to develop a solar-powered truck, whose electrical propulsion is generated by the vehicle's own solar cells, sited in a trailer that's attached to a hybrid-electric vehicle.

These include Midsummer's new perovskite solar cells, which allow for double the solar energy generation compared to traditional solar cells. They produce a maximum efficiency of 13.2 kWp (kilowatt peak), which will ...

The hybrid truck's 18-meter trailer is nearly entirely covered in solar panels, equivalent in power to a residential solar panel setup. In Sweden, this solar energy extends the truck's annual driving range by up to



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5,000 ...

Electric Island is the first vehicle charging site designed with heavy-duty trucks in mind; will be open to public for all levels of EV charging. ... Additional plans for future on-site ...

The heavy-duty truck weighs 18 tons and is equipped with a 3.5 kilowatt-peak photovoltaic system and feed-in to the 800-volt traction battery. The vehicle has been approved for road traffic and is currently hitting the road ...

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As a first of its kind in the U.S. and California state, WattEV has come up with 1MW solar-powered electric truck chargers. 5 MW of solar power and second-life batteries in addition to 24 charging dispensers are ...

Explore Scania's groundbreaking endeavor to develop solar-powered trucks, generating electrical propulsion from onboard solar cells. Discover the agile teamwork and cutting-edge technologies that drive this ...

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