

European Solar Energy Storage

Trailer three-axle energy storage



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Range , Electrified Trailers

Install the eTrailer System under your trailer. The kit comprises a high-voltage battery, an electrified axle (e-axle), and an advanced sensor suite that can be installed onto existing trailers in just a few hours.

ELECTRIC TRAILER AXLES - MAKING THE MOST ...

The principle behind these is quite simple; they capture the energy that is created when a trailer is rolling freely along the road and use this to generate electric energy to charge an onboard lithium-ion battery or high storage capacitor ...



Electrified Trailer Solution by ZF

This unique solution can be made possible by integrating ZF's AxTrax 2 electric axle plus a battery system box with battery modules and battery management in the trailer.

Caravans or trailers with an electrically powered support axle

Dividing the driving force between the individual units of a vehicle combination means that the towing vehicle does not have to carry oversized energy storage when driving solo or, conversely, prevents the energy storage from being undersized when driving with trail-ers.



The Electric Trailer Revolution! Range Energy's E-Axle Tech

E-Axle Innovation: How a drive motor and battery pack on the trailer can reduce fuel consumption (up to 70%!), provide regenerative braking, and integrate seamlessly with any tractor.

Optimization for fuel consumption and TCO of a heavy-duty truck ...

The results highlight the potential of the configuration with three electric axles and single reduction gear in regard to vehicle energy consumption. Conversely, the configuration with one electric axle and a two-speed transmission exhibits the lowest TCO.



ELECTRIC TRAILER AXLES - MAKING THE MOST OUT OF WASTED ENERGY

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lithium-ion battery or high storage capacitor (typical storage voltage is 400 volts).

AxlePower

AxlePower ensures that no energy goes to waste! This trailer-mounted solution recovers and stores energy generated by braking and driving downhill so you can power your refrigeration unit with sustainable energy.



High-voltage Energy Storage in Lightweight Design for Electrified ...

For heavy-duty commercial vehicles, a significant reduction in emissions can be achieved with electrically driven semi-trailers. As part of the joint research project evTrailer, Fraunhofer LBF has developed a particularly lightweight high ...

ePower: The generator axle that intelligently produces

The ePower generator axle generates energy during braking and driving, which is used to power refrigeration units electrically during temperature-controlled transport - saving up to 4,000 litres of diesel and 10 tonnes of CO2 per trailer per year.



Contact Us

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