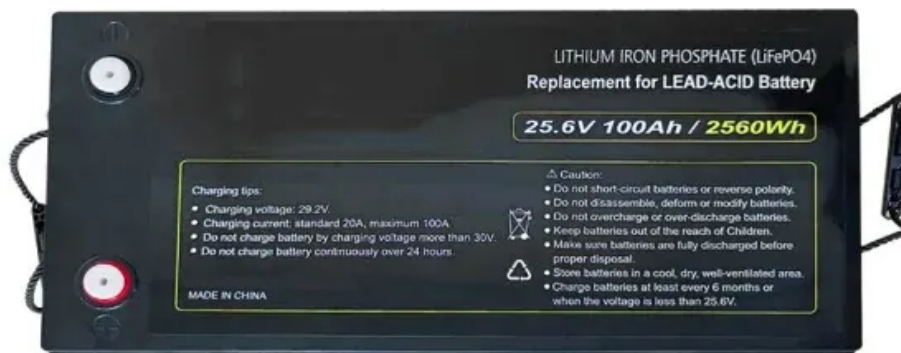


Install photovoltaic panels on the top of the road



Overview

Highway solar roofs would be installed on overpasses, tunnels, sound barriers and road surfaces. They would reduce CO2 emissions and enhance road safety by creating renewable energy and improving transportation infrastructure.

(Image courtesy of Alex Kalinin, Unsplash) By Kayt Sukel While taking the bus home from work one day, Hou Jiang, Ph., was trying to figure out how to overcome. Solar roads, also known as photovoltaic pavements, are roads that incorporate solar panels into their surface. The basic idea is to replace traditional asphalt or concrete roads with specially designed solar panels that can withstand the weight of vehicles while generating electricity from. Instead of building separate solar installations, we'd simply replace asphalt with special solar road panels that could handle traffic while generating electricity. The idea captured imaginations worldwide and raised millions in funding. According to a recent study, highway PV panels could sequester 28.78% of. Placement of photovoltaic roofs on the main highways worldwide has the potential to utilise existing land and produce 17,578 terawatt-hours annually, which is over four times the yearly energy output of the United States.

Install photovoltaic panels on the top of the road



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...

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WASHINGTON -- Covering the world's highways with solar panel roofs could dramatically reduce carbon dioxide emissions and road accidents, according to new research.



[Solar panel roofs on highways could slash global carbon emissions](#)

By reducing the need for fossil fuels, solar panel roofs could cut global carbon emissions by nearly 28%. The concept involves elevating solar panels above highways and major roads, which ...



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California could generate enough electricity to power 270,000 homes by putting solar panels in the empty land next to highway interchanges in just 3 Southern California counties, ...

[Solar panels over highways could significantly cut emissions and ...](#)

Although some countries have launched small pilot-scale highway photovoltaic projects, extensive solar-panel-covered highways remain a distant goal. The researchers evaluated highways and major ...

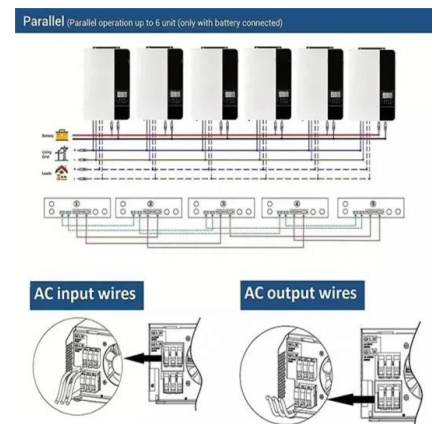


[Highway photovoltaic roofs: a brilliant idea to decrease carbon](#)

According to a study published in Earth's Future, covering the world's highways with solar panel roofs could significantly reduce carbon dioxide emissions and traffic accidents.

[Solar Panel Roofs on Highways Could Cut Emissions](#)

Recent groundbreaking research suggests that installing solar panels to cover highways worldwide could dramatically cut emissions and boost road safety.



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