

# Road installation of solar panels





## Overview

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Why should you install solar panels on a highway?

Roofing highways with solar panels generates green electricity that is delivered to the grid to replace the electricity from fossil fuels, thereby contributing to CO<sub>2</sub> e emission reductions. This PV system also protects cars on the highway from adverse weathers, thus reducing traffic losses (road traffic deaths and socio-economic burdens).

Can solar panels be used in a roofing Highway?

Photovoltaic (PV) installations are a leading technology for generating green electricity and reducing carbon emissions. Roofing highways with solar panels offers a new opportunity for PV development, but its potential of global deployment and associated socio-economic impacts have not been investigated.

Can PV panels be installed on highways?

The implementation of PV systems on highways (Figure 1), that is, roofing highways with PV panels, holds great promise to increase renewable energy production and to alleviate the contradiction between land availability and energy accessibility through the three-dimensional space use of land.

Should solar panels cover the world's highways?

Covering the world's highways with solar panels would reduce carbon emissions, bolster energy production, and improve safety for drivers. (Image courtesy of Alex Kalinin, Unsplash) By Kayt Sukel



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