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Title: Requirements for installing photovoltaic panels at the tunnel entrance

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The study proposes a double-targeted approach to installing solar panels around tunnel portals, which can reduce lighting requirements and cover around a fifth of the tunnel energy consumption from self ...

A double-targeted action is proposed installing solar panels around tunnel portals.

In this work, a double-targeted perspective is proposed: the installation of solar panels around the portal gate of tunnels, to contribute to power the tunnel installation (lighting, ventilation, emergency), but ...

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Secondly, combining meteorological and solar radiation data, the photovoltaic simulation software PVsyst was used to simulate and calculate the annual irradiance received by photovoltaic...

It was found that PV modules must be installed as near to the ground as possible in order to minimize long term effects of the aerodynamic forces.

This paper studies the integration of semitransparent photovoltaic (STPV) cells into sunscreen structures installed above tunnel entrances to reduce tunnel lighting ...

on the natural tunnel ventilation regarding the stack effect and found an optimal shaft height for effective smoke exhausting. As it is a new concept to install PV panel canopy at the ...

In this article, a new concept of light injection and distribution in tunnels is proposed. It consists of the coupling of three main elements: collectors, light-pipes, and one reflecting vault...

For a more sustainable and resilient road tunnel energy system, we conducted an exploratory study on

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installing a semi-transparent photovoltaic (STPV) canopy at the entrances and ...

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