

# Installation of photovoltaic panels on the creek slope

Does a photovoltaic panel reduce runoff and sediment in a slope?

The impact of a photovoltaic (PV) panel on runoff and sediment in a slope was tested. The key impact of the PV panel is preventing soil detachment by raindrop impacts. The PV panel slope produced 27 %-63 % less soil erosion than the control slope. The PV panel delayed runoff start time under rainfall with heavy rainfall intensities.

Why did a PV panel erode a slope section?

This was attributed to the weakened splash erosion on the slope section under the PV panel due to the rainfall interception by the panel, which indicated that the key impact of the PV panel was preventing soil detachment by raindrop impacts.

Can RBI Solar be installed on a slope?

RBI Solar The workaround to undulating topography is non-intrusive mounting options made for slopes, grades and hills. The common solution is extended post length, but installers can make custom brackets or install panels in smaller rows or single-bay tables.

Does a PV panel affect rainfall-runoff and soil erosion processes?

The rainfall-runoff and soil erosion processes of a slope with a PV panel above the middle of it and a control slope with no cover were observed and compared. The result indicated that the PV panel did not have considerable effect on runoff volume, peak flow discharge, and overland flow velocity.

Do PV panels prevent soil detachment by raindrop impacts?

The key impact of the PV panel is preventing soil detachment by raindrop impacts. The PV panel slope produced 27 %-63 % less soil erosion than the control slope. The PV panel delayed runoff start time under rainfall with heavy rainfall intensities. PV panels on hillslopes may have the potential to retain soil organic matters. Abstract

Which slope is suitable for PV power plant installation?

Hillslope areas contain a large portion of land which is suitable for large-scale PV installations (Fig. 1) (Kim and Park, 2021, Yang et al., 2019), and there is a wide range of acceptable slopes for PV power plant installation (from 5 to 11.3°) (Anwarzai and Nagasaka, 2017, Charabi and Gastli, 2011, Irena, 2013, Yushchenko et al., 2018).

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