

The photovoltaic panel bottom landslide



Overview

The landslide was initiated on the edge of a hillslope where a mountain photovoltaic power station (MPPS) is located. The key impact of the PV panel is preventing soil detachment by raindrop impacts. A catastrophic landslide occurred at 11:25 AM on Aug, in Hoengseong County, western Gangwon Province, South Korea (37°29'37. 1) following 2 days of heavy rainfall that exceeded 200 mm. However, limited research has been conducted on landslide risk assessment specifically. The following technical recommendations can be added to project specification requirements of a new system or used to assist in planning for a modification to an existing solar PV system. An increasing number of PPSs are exposed to natural hazards, such as landslides.

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Photovoltaic panels absorb direct solar radiation, leading to lower soil moisture evaporation and significant differences in soil evaporation between areas covered by panels



[The Risk of Landslides at Japanese Solar Farms Highlights Climate](#)

The rainwater collected by solar panels could exacerbate the instability of inclined surfaces, making them more susceptible to landslides. Experts are sounding the alarm on this issue.



[Preliminary analysis of a heavy rainfall-induced landslide](#)

The landslide was initiated on the edge of a hillslope where a mountain photovoltaic power station (MPPS) is located. The landslide mass moved along and eroded a concave forested ...



[Landslide risk on photovoltaic power stations under climate change](#)

Some PV power stations (PPSs) are installed in mountainous areas, placing them at a higher risk of landslides owing to sloped areas and extreme rainfall in summer.



[Geospatial-based risk analysis of solar plants located in the](#)

This study investigates the risk of solar photovoltaic power stations (SPVPs) in the Gangwon region of South Korea to landslides, a common hazard in mountainous regions of the ...

[Preventing and Mitigating Flood Damage to Solar Photovoltaic Systems](#)

Discusses the importance of proactive measures, including site assessment, flood level considerations, and various engineering approaches to prevent and mitigate flood damage to solar photovoltaic ...



[Landslide risk on photovoltaic power stations under climate change](#)

An increasing number of PPSs are exposed to natural hazards, such as landslides. However, the socioeconomic impact of landslide risk on PPSs has rarely been assessed nationally.



[Dynamic Risk Assessment of Landslide Hazard for Large-Scale](#)

In this paper, a dynamic study on landslide risk at a large photovoltaic power plant project under extreme rainfall conditions is conducted.



[Landslide risk on photovoltaic power stations under climate change](#)

The number of solar PV power plants in the Republic of Korea (ROK) has been increasing in recent years to achieve a net-zero carbon dioxide emission target; however, most of ...



[Landslide risk on photovoltaic power stations under climate change](#)

This study provides insights into the economic loss of PPSs from landslides in the Republic of Korea and suggests that severe climate change would bring a significant increase in this economic loss, which ...



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