

NKOSITHANDILEB SOLAR

Cost of Waterproof Photovoltaic Containers for European Mines



Overview

Should solar PV be installed in mining areas?

If future PV projects continue to follow current land-use patterns at the country level under a business-as-usual scenario, then installing solar PV systems on 65,488 km² of global mining areas could prevent the occupation of 28,311 km² of cropland for solar development.

Are MPV systems a viable solution for repurposing abandoned mines?

For mine owners, MPV systems offer a viable solution for repurposing abandoned mines. Most countries have regulations and legal frameworks to ensure that abandoned mines do not cause environmental issues. However, the high cost of remediation has left many of such sites unreclaimed.

How much electricity can MPV systems generate in a mining area?

Our findings indicate that, within a global mining area of 65,488 km² with slopes less than 3°, MPV systems could generate 12,373 TWh of electricity annually from 8,670 GW of installed panels worldwide (Table S1).

Should mine owners integrate MPV systems?

By integrating MPV systems, mine owners can transform abandoned sites into productive assets, thereby offsetting remediation costs while contributing to the development of renewable energy. Regional and single-site studies have assessed the energy potential, economic feasibility, and efficiency of MPV systems.

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