

# Cost of Waterproof Photovoltaic Containers for Russian Mines

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 km<sup>2</sup> of global mining areas could prevent the occupation of 28,311 km<sup>2</sup> of cropland for solar development.

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

Our findings indicate that, within a global mining area of 65,488 km<sup>2</sup> 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).

Can a rooftop PV system reduce land-use conflicts?

Several new forms of photovoltaic (PV) installations have been proposed for advancing the deployment of solar energy while mitigating land-use conflicts. One prominent approach is rooftop PV systems, a decentralized solution that utilizes available rooftop space to generate solar energy.

How much energy can MPV systems generate a year?

Using 65,488 km<sup>2</sup> of mine land with slopes less than 3°--out of a total of 120,169 km<sup>2</sup> across 81,773 mine lands globally--we estimated a global annual energy potential for MPV systems of 12,373 TWh from 8,670 GW of installed panels (Figure 2).

Given the fact that Russia is looking for alternative sources of clean energy, solar photovoltaic containers are a practical and adaptive solution. They are mobile facilities which house ...

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