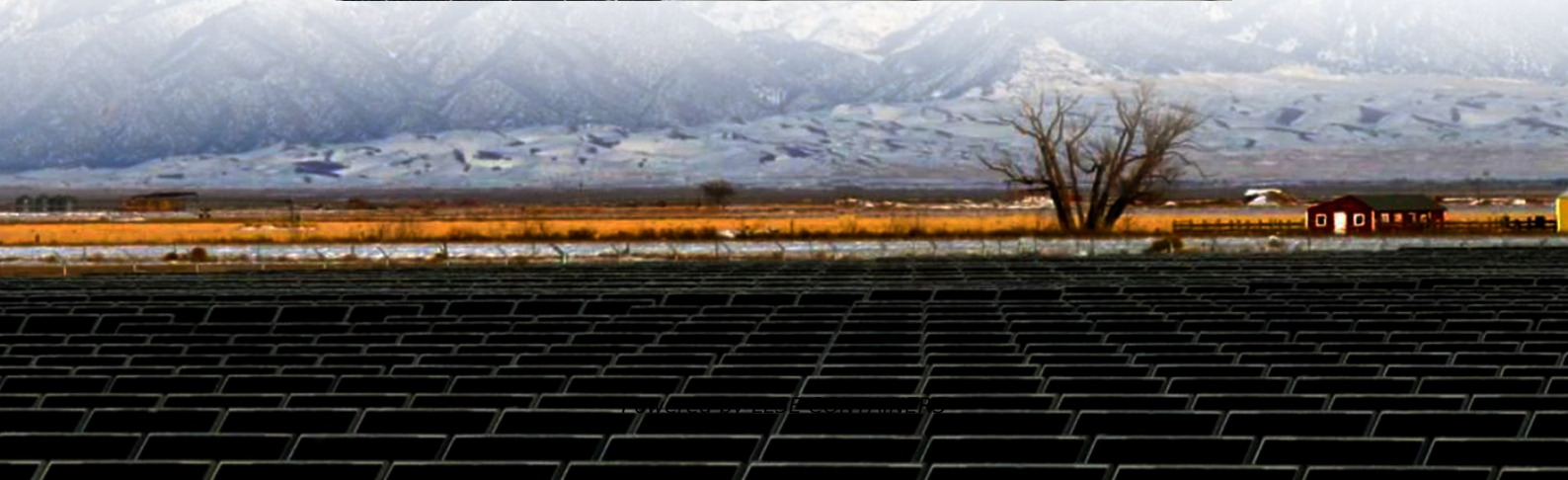


# Waterproof Protocol for Photovoltaic Containers Used in Tunnels





## Overview

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What are the methods used in tunnel waterproofing?

There are several effective methods used in the tunnel waterproofing process. Here are some commonly employed techniques: Membrane Waterproofing Systems: Membrane systems are widely used in tunnel waterproofing. They involve the application of waterproofing membranes to the tunnel surfaces.

Why is waterproofing of tunnels important?

Abstract. Waterproofing systems of tunnels is of crucial importance for the long-term effectiveness of the underground works and for the possible impact on the surrounding environment.

Can a mined tunnel be used as a waterproofing system?

In case of double-shell constructions, the waterproofing layer is provided between the first and the secondary lining. By default, mined tunnels limit the selection of the water-proofing system to pre-installed membrane systems or integral waterproofing only. Externally or post-applied bonded waterproofing systems can not therefore be used.

What are the different types of tunnel waterproofing systems?

Cementitious Waterproofing Systems: Cementitious waterproofing systems consist of cement-based coatings or additives that are applied directly to the tunnel surfaces. These coatings form a protective layer that resists water penetration. Bentonite Waterproofing Systems: Bentonite clay-based systems are commonly used for tunnel waterproofing.



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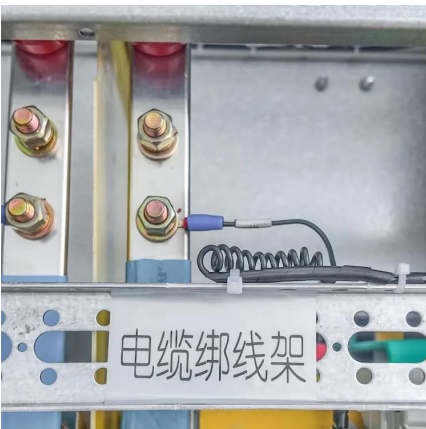


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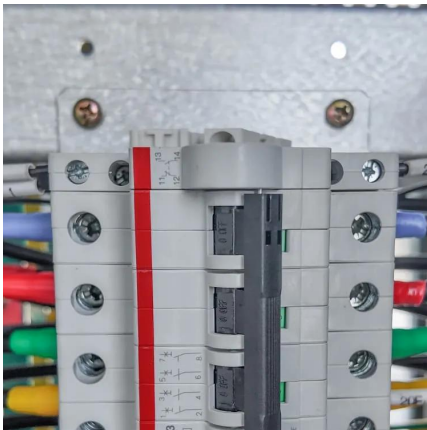
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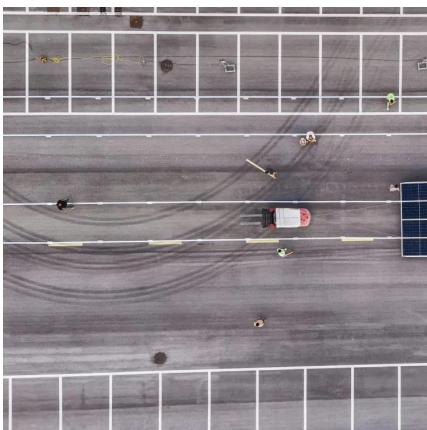
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