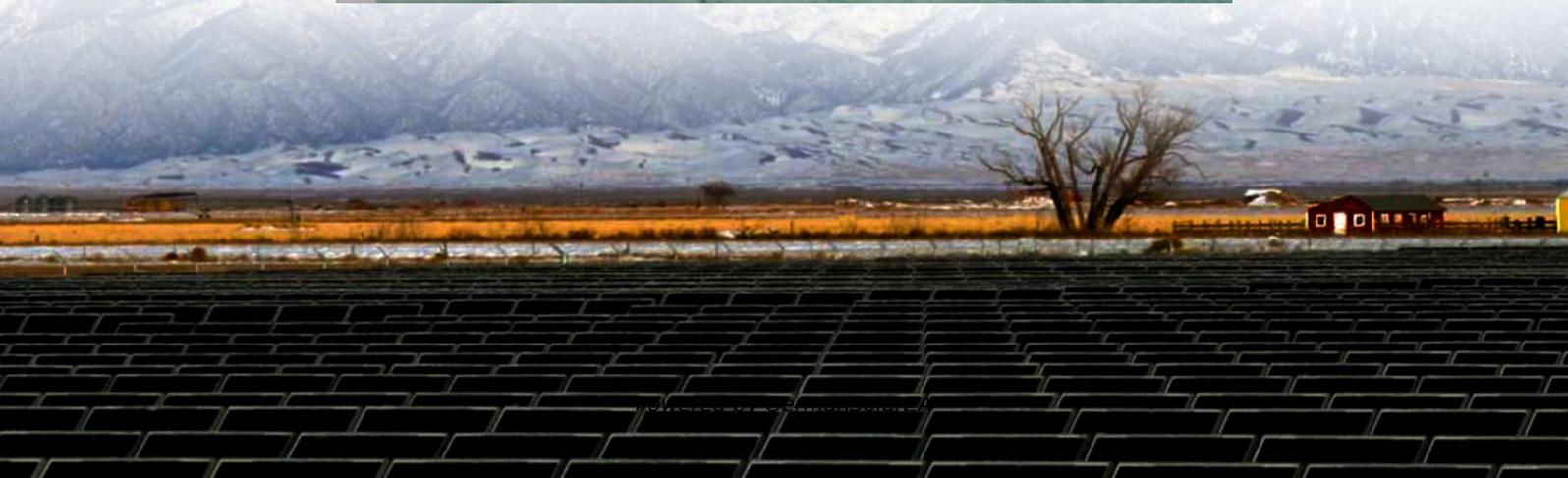


# Waterproof Protocol for Photovoltaic Containers Used in Tunnels





## Overview

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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.

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.

What is a traffic tunnel waterproofing system?

In traffic tunnels, the waterproofing system is usually composed of the superposition of various layers of geosynthetics, namely:



## Waterproof Protocol for Photovoltaic Containers Used in Tunnels

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This article focuses on the tunnel waterproofing process. You will learn about the methods used in the waterproofing of tunnels and the role of



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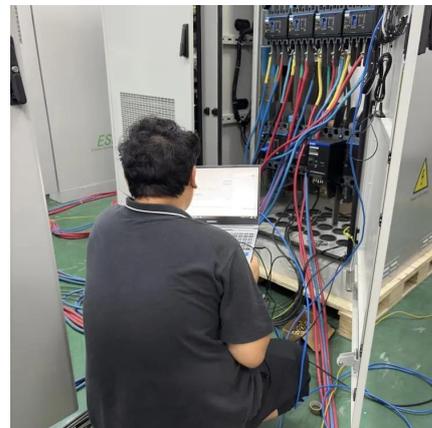
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Components The waterproofing of a tunnel is a loose laid system. In case of a leakage, the water is able to enter between the geomembrane and concrete shell and will look ...

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