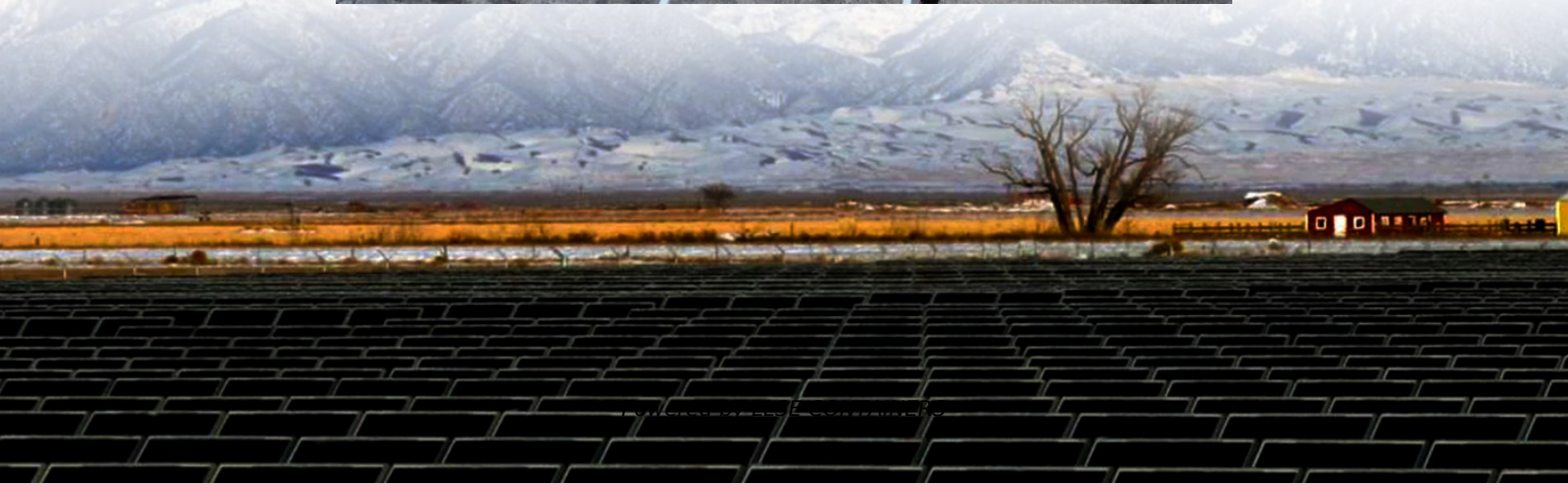
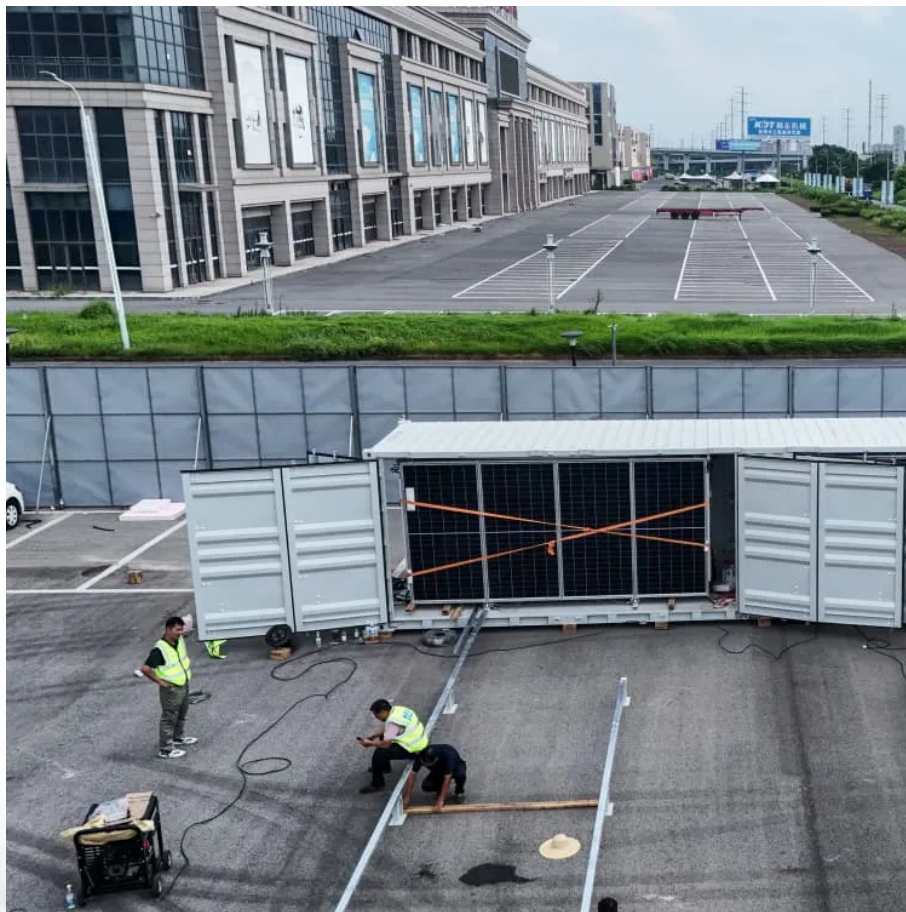


Pretoria Energy Storage Container Seismic Resistance Cooperation





Overview

Why is seismic risk assessment important for storage tanks?

Earthquakes, as a natural threat affecting all structures, also trigger events like fire and explosion in storage tanks. Therefore, the assessment of seismic risks for storage tanks, the prediction of damage, is crucial for both existing and newly constructed tanks.

Are spherical and horizontal cylindrical storage tanks seismic?

In this study, the seismic behaviors of spherical and horizontal cylindrical storage tanks were investigated based on observational and finite element analysis data. Fragility analyses of tanks were conducted considering several commonly used statistical approaches, and fragility curves were derived.

What are examples of earthquakes in spherical storage tanks?

Examples of damage and accidents caused by earthquakes in spherical storage tanks can be found in the 1991 Costa Rica, 2001 Bhuj, India, and 2007 Kashiwazaki, Japan earthquakes, resulting in severe damage and significant environmental and economic losses.

Can earthquakes cause anchor damage in horizontal cylindrical storage tanks?

It is well-known that in horizontal cylindrical storage tanks, dynamic effects such as earthquakes often lead to anchor damages. For the tank model considered in this study, two different scenarios were investigated, where the concrete base under each support leg was anchored with 3 and 5 anchor bolts.



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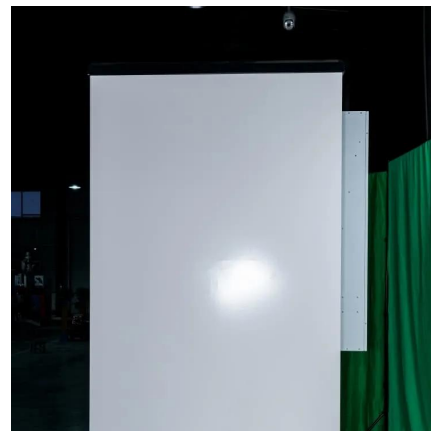
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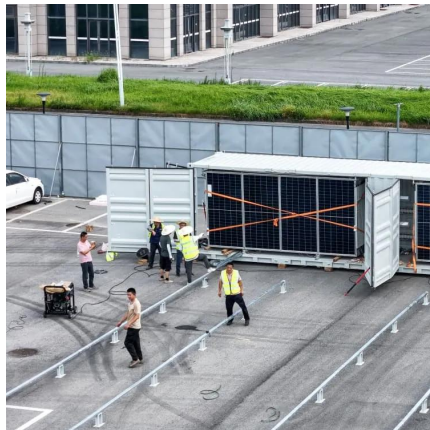
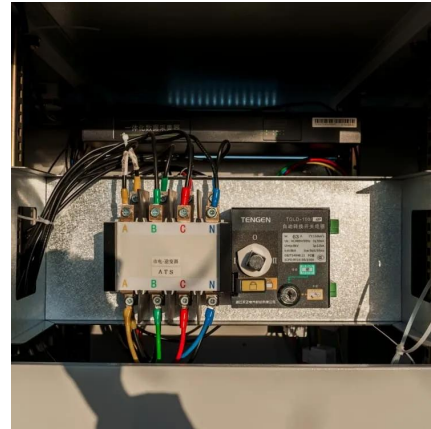
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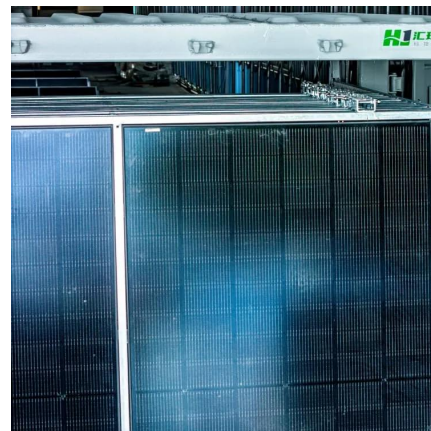


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