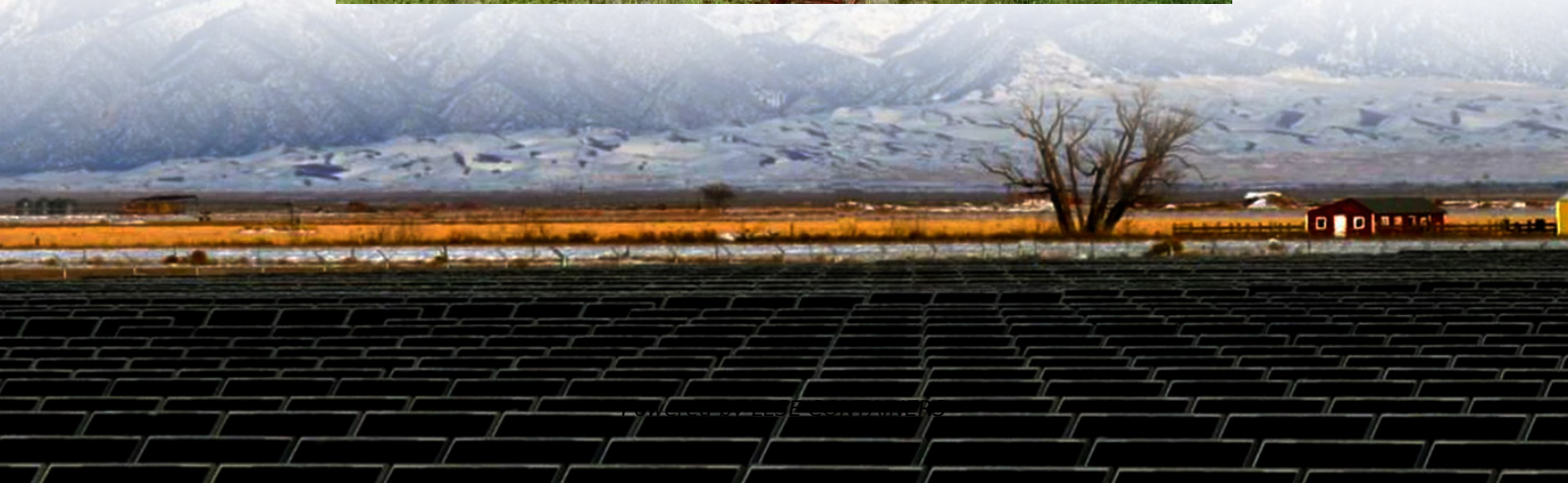


Free consultation on seismic-resistant energy storage containers in Croatia





Overview

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.

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.

Is a fluid storage tank a non-structural element under seismic loads?

Research on the coupling effects of a fluid-storage tank as a non-structural element supported by a structural frame or building system under seismic loads is quite scarce , , .

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.



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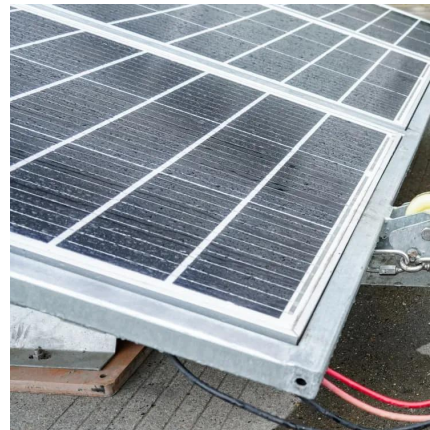


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These consequences also result in large amounts of financial loss. Damage to free-standing cylindrical ground storage tanks during many earthquakes demonstrates the need for better ...

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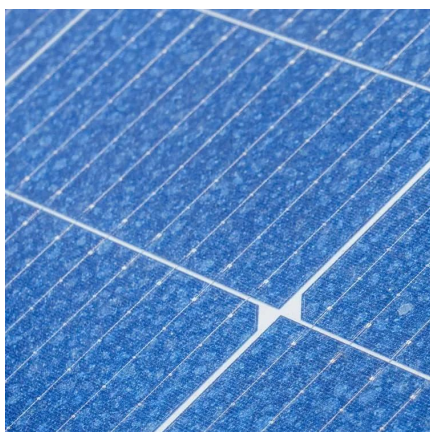
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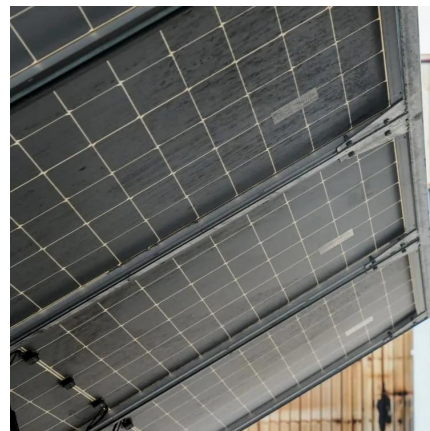


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