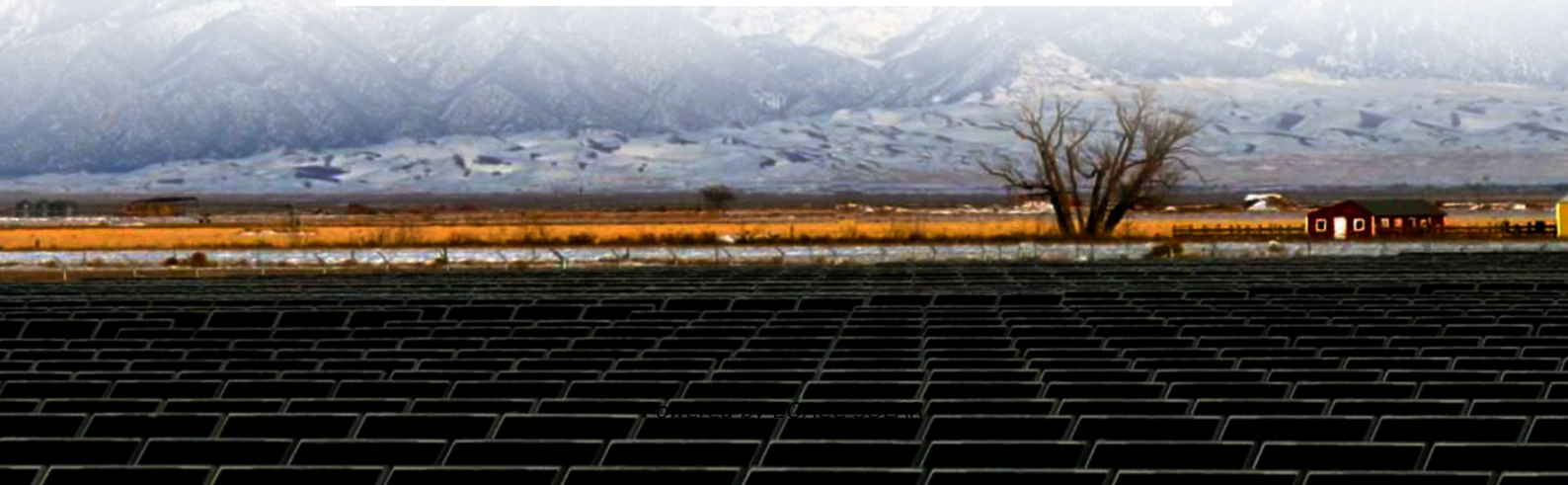


**EQACC SOLAR**

# **Slovakian Energy Storage Container Earthquake-Resistant Type**



## Overview

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Are spherical liquid storage tanks earthquake prone?

The spherical storage tanks are widely used for various types of liquids, including hazardous contents. Therefore, they must be adequately designed for seismic actions, especially in earthquake-prone regions. The aim of this article was to perform a seismic analysis on a model of the spherical liquid storage tank.

What is seismic analysis of a spherical liquid storage tank?

The article deals with the seismic analysis of a spherical liquid storage tank intended to compute the dynamic responses of the tank-liquid system to a seismic event using analytical methods (such as general principles for structural design, analytical studies) and numerical computations based on the finite element method in software ANSYS. 1.

Can a liquid storage tank withstand a seismic load?

Therefore, liquid storage tanks should be properly designed to withstand different types of loadings. One of them is the investigation of structures subjected to a seismic excitation. A specific interaction between the tank and the liquid occurs during a seismic loading.

Are there seismic design rules for storage tanks?

While very detailed and specific seismic design rules for storage tanks of cross-sections of elementary geometry (circular, rectangular) are provided by several codes (e.g. Eurocode 8 – part 4 ), these rules are missing for different shaped tanks (such as spherical). Wieschollek presented the results

## Slovakian Energy Storage Container Earthquake-Resistant Type

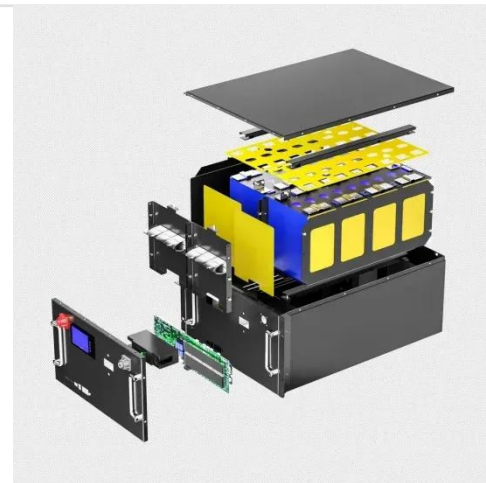


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### Energy storage container, BESS

## container

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