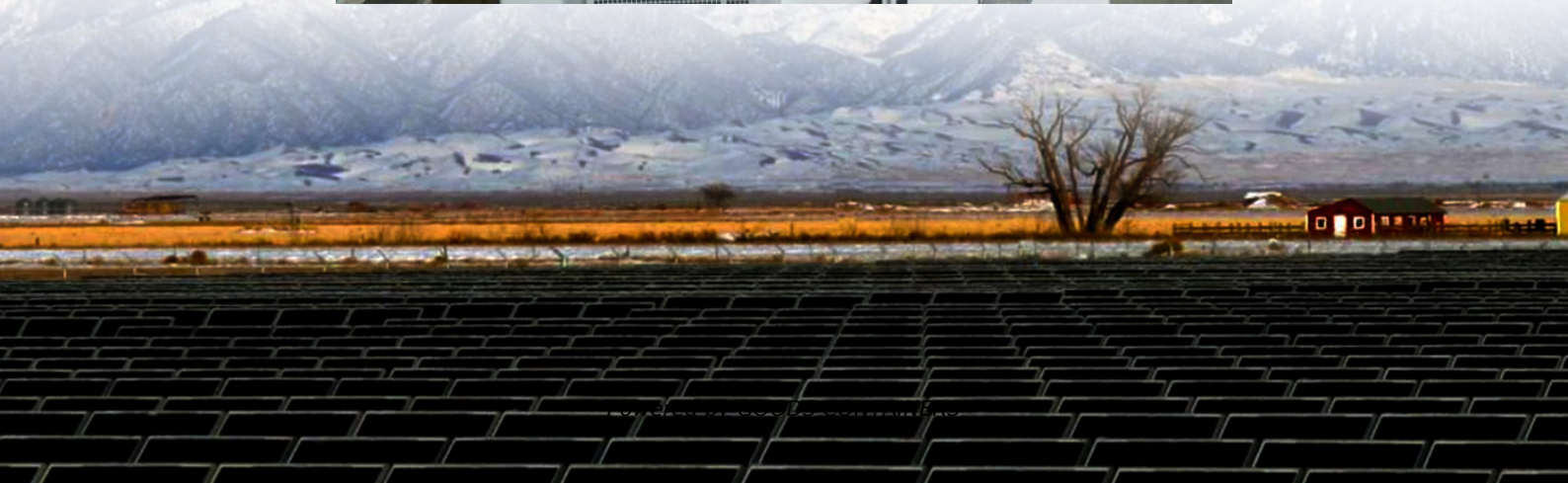


Corrosion-resistant agreement for energy storage containers used in agricultural irrigation





Overview

Using phase change material (PCM) as the energy storage medium and applying it in a latent heat energy storage system has become an important way of new energy application. PCM has been widely used i.

What is corrosion inhibitor technology?

The corrosion inhibitor molecules are adsorbed on the surface of the container to form a protective layer, which greatly reduces the corrosion rate of the container in an acidic environment. At present, corrosion inhibitor technology is also developing in the field of energy storage.

Why is corrosion resistance important for macro packaging?

For macro packaging, ensuring the corrosion resistance of packaging materials in the TES system has become its main problem, because it is not only related to the safety of food in the transportation process but also related to the long-term use and complete function of the entire energy storage system , .

Which packaging materials are suitable for high-temperature thermal energy storage?

Jacob et al. report on packaging materials suitable for high-temperature thermal energy storage and indicate that steel (carbon and stainless steel), nickel (and nickel alloys), sodium silicate, silica, calcium carbonate, and titanium dioxide can be further investigated in high-temperature PCM.



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Oct 4, 2004 · The onset and progression of corrosion by fertiliser solutions can be controlled by better design of equipment and by improved maintenance and cleaning (see Section 3). ...

[High-level corrosion protection in agricultural ...](#)

Sep 16, 2024 · High-level corrosion protection in agricultural environments Magnelis® is an exceptional steel coating which provides superior corrosion protection. Steels coated with ...



[Review of research progress on corrosion and anti-corrosion ...](#)

Jul 1, 2023 · When organic phase change materials are used as energy storage media, corrosion of packaging containers will also occur. Kahwaji et al. [86] performed corrosion tests on six ...



[Agricultural Fertilizer Anti Corrosion Fiberglass Storage Tank](#)

Oct 31, 2025 · FRP corrosion-resistant storage tanks feature a series of advantages such as high mechanical strength, excellent corrosion resistance, long service life, light weight, smooth ...



[Corrosion of metal containers for use in PCM energy storage](#)

Apr 1, 2015 · These systems performance is based on the latent heat due to PCM phase change, a high energy density that can be stored or released depending on the needs. PCM are ...



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