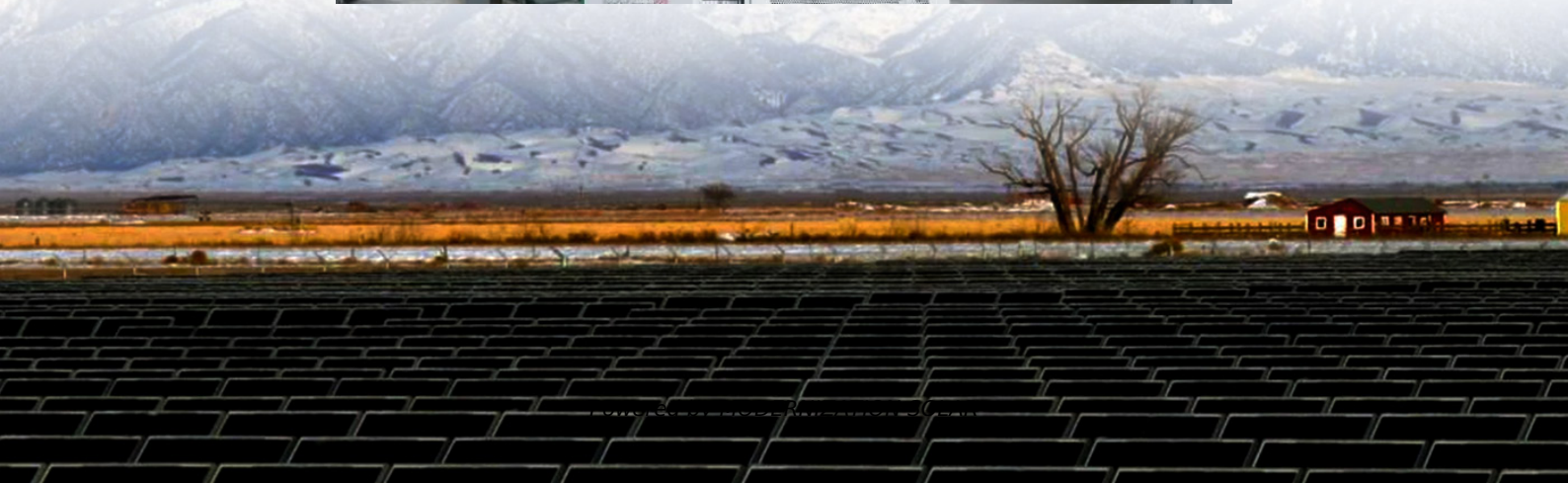


Cement Plant Use of Asia Mobile Energy Storage Container with Grid Connection





Overview

Why is concrete a good energy storage material?

In addition to the energy storage capabilities, concrete materials benefit from the inclusion of special additives, such as carbon nanomaterials, which enhance their mechanical and durability properties. Moreover, studies on concrete batteries have encouraged the development of electrically conductive concrete.

How can a concrete battery be used for marine structural health monitoring?

The concrete battery originating from the reinforcement corrosion in the seawater environment can be used to power the electronics for marine structural health monitoring (SHM). Similarly, alkaline solutions can provide pathways for ion transfer.

Do carbon nanomaterials contribute to electrical conductivity development of cement-based electrodes?

Compare to the studies by Dong et al. , who observed the percolation threshold and electrical resistivity approximately $1500 \Omega \text{ cm}$ for the 2.0 % NCB filled cementitious composites, it demonstrates that the dispersion of carbon nanomaterials plays a critical role for the electrical conductivity development of cement-based electrode.

Are concrete batteries a future direction for smart civil infrastructures?

Overall, concrete batteries represent a future direction for smart civil infrastructures with energy self-sufficiency [,]. Concrete batteries are more sustainable than traditional batteries, which usually contain hazardous heavy metals such as lead, cadmium, and mercury.



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