

Title: Earthquake-resistant photovoltaic containers used in Egyptian ports

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Can solar energy be used in a Trombe wall?

While the Trombe walls have massive natural convection and energy storage capability, solar energy is used for decreasing the heating load. The results showed the optimal design of the Trombe wall has a height of 1.7 m by a thickness of 0.3 m and a channel depth of 0.22 m, which enhances the thermal comfort by 38.19% during winter.

Why is Egypt struggling to keep the lights on?

With an overreliance on gas, and with declining production from its flagship Zohr gas field, Egypt is struggling to keep the lights on. Egypt issued a tender to import nearly two million tons of fuel oil in May and June to meet its electricity needs as gas imports became too expensive.

Are green maritime ports entropy based on environmental performance indicators?

Teerawattana and Yang (2019) applied an entropy analysis on the environmental performance indicators (EPIs) of the Laem Chabang port, in Thailand, using data from 2011 to 2014. That analysis aimed to figure out the ports assessment criteria to be converted into green maritime ports.

Why are coastal container terminals less efficient than other ports?

The results revealed that efficiencies of coastal container terminals are lower than those of the other ports; however, the scale inefficiency is the primary reason, which is causing a big difference of different port groups. The results showed excessive waste in the input phases.

Our team specializes in designing earthquake-resistant solar-plus-storage systems tailored to your geographical risks and energy ...

On completion, it will be the first integrated solar photovoltaic and battery storage project of this scale in Egypt, and a significant ...

This paper presents the conceptual design of an innovative partially floating PV (PFPV) system for the use in the Egyptian north lakes to meet the continuously increasing ...

The 200 MWh storage system will provide crucial grid services in Upper Egypt, a region that has historically suffered from weaker transmission infrastructure. The project is ...

A three-stage data envelopment analysis model is used for 42 coastal container terminals, which aimed to find

higher port efficiency and an improved development mode.

International energy giants such as Norway's Scatec, the UAE's Infinity and Masdar, and Egypt's local Hassan Allam Group have also signed agreements for large-scale ...

Spanning an impressive 20 square kilometers, the project is set to include not only Africa's largest PV installation but also a robust battery storage system. This advancement will ...

In addition to decarbonizing Egypt's energy mix, the project is expected to create approximately 4,000 jobs during construction, demonstrating the dual climate and ...

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