

<div class="df_qntext">Can reusing shipping containers reduce energy consumption?

Proposed hybrid shadings achieved a higher reduction in energy consumption. The hybrid louvers can replace horizontal, vertical, and egg-crate shadings. Reusing shipping containers for residential purposes offers a promising approach to address global energy consumption challenges from economic and environmental perspectives.

<div class="df_qntext">How much energy does a container building use?

Notably, energy reductions of up to 50.2% were projected for climates such as Miami (1A) and San Diego (3A). Furthermore, container buildings in warm climate zones exhibited a significantly lower EUI range of 76.58 to 91.95 kWh/m²·yr.

<div class="df_qntext">Can shipping containers be used sustainably for residential construction?

However, the challenges lie in determining how to utilize these containers sustainably for residential construction. Inter-modal Steel Building Units (ISBU), commonly known as shipping container houses, offer a promising solution by reducing embodied energy and emissions.

<div class="df_qntext">What is solar energy journal?

The journal welcomes studies and analyses at all scales, from groundbreaking fundamental advances to interdisciplinary research across chemistry, physics, materials science, engineering, theory, and policy and techno-economic analyses, for advancing the field of solar energy.

<div class="df_qntext">Are upcycled intermodal containers better for the environment?

Upcycled intermodal containers were found to have the lowest environmental impact compared to wooden and reinforced concrete constructions. The study employed EnergyPlus 8.4 to calculate annual energy consumption. In their research, the improved container (IC) case incorporated a 10% total facade glazing.

<div class="df_qntext">What is EES solar?

Building on the reputation of the companion journal Energy & Environmental Science for high quality and influence, EES Solar aims to be a leading publication for groundbreaking studies that span a wide range of scientific disciplines, all connected by the thread of solar.

Publishes original research papers of permanent interest in all areas of solar energy and energy conservation as well as discussions of policy and regulatory issues that affect renewable energy ...

The primary objective of this paper is to introduce and assess the viability of an innovative infrastructure termed Underground Reefer Container Storage (URCS) devised to mitigate ...

This special issue is dedicated to the recent contemporary advancements in solar energy engineering (CASEE 2022). The selective papers that focused on latent modification in solar ...

Motherwell, Nelson Mandela Bay - A brighter, more reliable future has dawned for Elundini Primary School in Motherwell with the handover of a new solar-powered learning container, donated ...

Acknowledgement The financial support provided by Engineering and Physical Sciences Research Council (EPSRC) funded project RESCUES (EP/K03619X/1) and Department of ...

Its effectiveness relies on solar insolation rates and an intelligent dual-axis solar tracking system (STS) that maximizes solar energy capture. Performance analysis of SPTR with the fixed ...

To achieve this, the authors conducted onboard weather parameters measurements on a 20,000 TEU container ship to determine the spatiotemporal variations of air conditions and ...

Addressing this research gap holds substantial promise in advancing sustainable EV charging infrastructure. This study endeavors to fill this void by presenting the sizing design and cost ...

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Energy-Aware Integrated Scheduling for Quay Crane and IGV in Automated Container Terminal Journal of Marine Science and Engineering (IF 2.8) Pub Date : 2024-02-22, DOI: 10.3390/jmse12030376 ...

At the Solar Energy Engineering Laboratory, we believe this challenge is best addressed through the efficient conversion of sunlight into chemical fuels that are easily transportable and compatible with ...

This paper studies an innovative heat pump that couples both solar and thermoelectric contributions and evaluates its implementation in an energy-efficient container house for civil ...

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