

# Energy consumption analysis of solar container construction

Abstract Solar energy consumption is a systematic study used to review the design of facilities, services, and equipment in an organization against specifications of solar panel. The solar ...

This article builds on a review of solar powered Zero Energy Buildings (ZEBs) by Kristiansen et al. (2019) that clarifies the state of the art for ZEBs, give design recommendations for ...

This research presents an early-design analysis of single-family housing located in Calgary, Canada; and combines energy analysis, life cycle assessment (LCA), and life-cycle costing ...

Semantic Scholar extracted view of &quot;Simulation study using building-design energy analysis to estimate energy consumption of refrigerated container&quot; by M. A. Budiyanto et al.

A review of energy use in buildings is presented to analyse its evolution by building types, energy services and fuel sources. Residential buildings are the most consuming, although ...

Abstract Container-based residential buildings (CBRB) can attain low-energy and low-environmental impacts through systematic envelope design and material selections focused on life cycle perspective.

Abstract This paper presents life cycle analysis of the container-based single-family housing and combines energy analysis and optimization, life cycle assessment and life cycle costing. The ...

Under lettuce growing conditions, an analysis was conducted on the internal environmental conditions of the container farm, as well as the operating time, efficiency, and energy ...

Passive house technology offers an effective solution to this issue. This study presents a multidimensional evaluation of passive container houses in five representative climate zones across ...

The fleet energy consumption efficiency shows a slight increase (at least 1%) due to release of ship energy efficiency management plan. The research findings can help maritime policy ...

Later, a port energy management plan is presented, and it covers energy consumption analysis, energy mapping and energy efficiency considerations [4]. The plan highlights the main ...

According to the Energy Commission Malaysia, more than 90 % of its energy is generated from non-renewable energy sources like fossil fuels [2] and adopting renewable energy ...

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This paper provides a simulation study on the estimation of energy consumption of refrigerated container. The simulation model performed on the building-design energy analysis used Integrated ...

The study examines design criteria such as building orientation, window orientation, size, and type to optimize energy consumption in a bungalow in the Sangli region of Maharashtra, ...

This study, however, proves that integrating passive solar design techniques in building not only results in reduced energy consumption but rather translates to reduction in life cycle environmental impacts ...

A combination of energy analyses and life-cycle assessments is performed to quantify the life-cycle impacts related to various energy efficiency designs (convictional, low-energy, net-zero ...

Abstract Based on the intrinsic mechanism of container port operation, this paper analyses the influence factors of the container port low-carbon greening development. Then the goal system of low-carbon & ...

First, research is conducted on container manufacturers to collect data about the characteristics of material production and energy consumption in the container construction phase.



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Web: <https://lpsolar.co.za>

