

Since solar photovoltaic (PV) stations are experiencing rapid growth, their potential fire risk needs to be studied as a priority to avoid catastrophic consequences. This study developed a ...

The case study presented involves the application of a challenge-derived S-LCA framework to perform a social impact assessment of a rooftop solar panel in the south-eastern region ...

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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.

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Fig. 1. Floor plan of the building module. This study aims to compare the life-cycle environmental impacts related to different designs of the case-study building, presenting a transition ...

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 (LCC), to ...

This study presents the main results of the application of the main single and integrated methodologies to assess the sustainability of solar energy projects developed by ESA researchers in ...

The novelty of this research lies in establishing a quantitative framework that integrates modular segmentation and standardized container logistics into floating PV structural design--a topic ...

This is a case study researching two different off grid solar PV projects in Kenya, a microgrid in Sidonge A" and Solar Home Systems (SHS) in the rural areas surrounding Bungoma/Kitale. The aim of this ...

The aim of this paper is to conduct a sustainability impact assessment of the supply chain of a Solar Thermal Electricity (STE) project in Mexico using the "Framework for Integrated ...

In this article, a novel approach to life cycle assessment (LCA) is introduced, termed "integral ecology life cycle assessment". At the most fundamental level, integral ecology LCA is a life ...

Solar container assessment framework case study

Despite the abundance of energy resource assessments for wind and solar power around the globe, the existing studies seldom integrate the environmental restrictions into the ...

The application of the Framework for Integrated Sustainability Assessment (FISA) to a STE plant in Mexico aims at tackling some of the above mentioned sustainability methodological and ...

A number of metrics in the past have been proposed and numerically implemented to assess the overall performance of large systems during natural disasters and their recovery in the ...

The application of the framework in the case studies of Piraeus and Livorno, two container terminals of different sizes and challenges but both located in the Mediterranean area, proves that the concept of ...

This study aims to evaluate the integrated life - cycle impact of a modular container - based single - family house compared to a conventional lightwood house in terms of energy, ...

A study on the life cycle assessment of PV systems (Kannan et al., 2006) used EPBT as an indicator for primary energy use, lifecycle cost analysis was performed for a distributed 2.7 kWp ...

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