

What is intelligent cold chain logistics?

Intelligent cold chain logistics differs from traditional cold chain logistics in that it uses less energy and has higher quality and efficiency. It can achieve automation, operation intelligence, information exchange and visualization of the cold chain.

Can PCM-based phase change cold storage technology reduce emissions?

The emission reduction potential of PCM-based phase change cold storage technology is the focus of this paper, and it can perform a noteworthy role in building a clean energy system for the cold chain. 4.2.4. Truck lightweight design

Is cold chain transportation active or passive?

Cold chain transportation is classified as active or passive based on the insulation method; when PCMs are used in a passive cold chain, the cold storage plate in the refrigerated truck releases the cold capacity and primarily serves as a cooling device.

Can a single-temperature-area refrigerated truck be used for cold-chain transportation?

The quality of products cannot be guaranteed when using single-temperature-area refrigerated trucks for cold-chain transportation of multi-species and small-batch goods due to the narrow temperature range of optimal storage and transportation of different products.

How much carbon does a cold chain transport link emit?

LIU et al. calculated the carbon emissions of each link in the cold chain of fruits and vegetables, and the carbon emissions of the transportation link accounted for 82 % of the total carbon emissions. As a result, the cold chain transportation link must be studied and optimized.

What are the problems affecting cold chain logistics?

Insufficient cold chain capacity, slow updating of cold chain technology and facilities, inaccurate temperature control and inadequate system maintenance are the common problems that limit the performance of traditional cold chain logistics.

Aiming to solve the high energy consumption, large fluctuation of internal temperature and humidity issues of the conventional cold chain transportation containers, this paper presents a ...

University of Birmingham experts have worked with one of China's biggest railway rolling stock companies to develop the world's first shipping container using materials that store and ...

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