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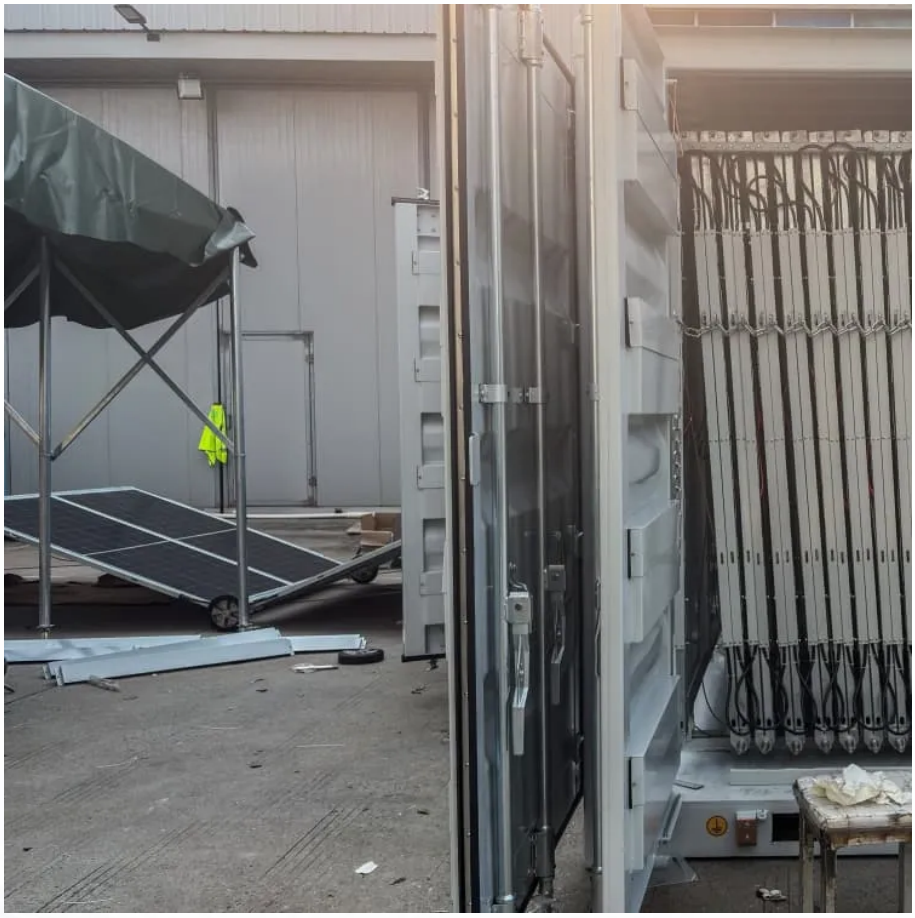
Stockholm Solar Energy System Energy Saving Solution



Overview

Does Stockholm have a 'plus-energy' building?

The municipal housing company Stockholmshem has built two plus-energy buildings in Stockholm Royal Seaport with occupancy from 2019. The two buildings with 43 rental apartments become net energy producers with the help of solar panels, geothermal heat, efficient insulation and ventilation, and recycling of excess heat from wastewater.

Does Stockholmshem have a plus energy building?

Stockholmshem therefore maintains an active dialogue with its tenants about what is required to live in a plus-energy building. Morten Johansson, architect at DinellJohansson, and Torbjörn Kumlin, project manager at Stockholmshem, discuss the plus energy buildings in Brofästet.

What is Stockholm Royal Seaport doing to reduce heat loss?

The focus is on minimising heat loss through an airtight building envelope and heat recovery from both ventilation and wastewater systems, while generating renewable solar energy on-site. Stockholm Royal Seaport was identified in Stockholm's environmental programme in 2008 as the city's next sustainability-profiled area.

Can solar PV coupled to energy storage systems (PV-ESS) be integrated?

One promising option is the integration of solar PV coupled with energy storage systems (ESS). The aim on this project is to study the implementation and optimal operation of turnkey solutions involving solar PV coupled to energy storage systems (PV-ESS).

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