

## Kongres Container

# Can large shopping malls use energy storage

114KWh ESS



PICC  
MULTI RISK

RoHS



MSDS

UN38.3

UK  
CA



## Overview

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Rockwill delivers integrated electrical solutions for smart grids, urban infrastructure, renewable integration, and industrial applications. From medium-voltage automation to EV charging networks and prefabricated substations, our systems ensure stable, efficient, and future-ready power.

Shopping malls are huge energy consumers. They've got lights, escalators, air - conditioning systems, and all sorts of electronic devices running all day long. A power outage can be a real nightmare for them. Not only does it disrupt the shopping experience for customers, but it can also lead to.

Shopping malls and similar venues present attractive, big-time opportunities as potential sites for grid-connected solar power, energy storage and intelligent, highly energy-efficient facilities management. A growing, international host of big-box retail, shopping mall owners, architects and.

While you're sipping caramel macchiatos and trying on sneakers, the shopping mall beneath your feet is quietly stockpiling enough energy to power entire city blocks. Sounds like sci-fi?

Welcome to 2025, where shopping malls as energy storage facilities are reshaping urban power grids faster than.

As energy costs rise and sustainability pressures mount, mall operators must adopt smarter, tech-driven strategies to stay profitable and resilient. This is where smart energy solutions for shopping malls come into play, bringing data-

driven efficiency, automation, and intelligent power management.

Shopping malls are energy - intensive facilities. They house a wide range of stores, restaurants, cinemas, and other entertainment venues. These spaces require continuous lighting, heating, ventilation, and air - conditioning (HVAC) systems to ensure a comfortable shopping environment. Are shopping malls the future of energy management?

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Do shopping malls need energy storage systems?

Usually, shopping malls are connected to the medium voltage (MV) grid and benefits of discounted and advantageous tariffs. However, they may vary considerably from country to country. The transition from fossil fuels to low-carbon technologies, mainly through RES generation, might require a wide utilization of energy storage systems (ESS).

Are shopping malls sustainable?

The sustainability aspects of the retail sector may thus significantly contribute toward ambitious environmental and energy targets. Shopping malls (or shopping centers) are a flagship category within commercial buildings with a great potential for energy efficiency improvement.

Can a shopping mall support the transition from fossil fuel to low carbon?

We will show how the shopping mall can support the transition from fossil fuel to low carbon generation, through the combination of (i) retrofitting solutions to decrease the energy demand, and (ii) the use of on-site renewable energy and (iii) the flexibility provided by energy storage.

How much energy does a shopping mall consume?

The European average energy consumption is estimated with a value of 272 kWh/m<sup>2</sup> GLAa in 2014 with a predominance of electricity and natural gas energy carriers, as shown in (Bointner et al., 2014). A shopping mall can be generally considered as an “icon of consumerism,” not only for retail activities, but also in terms of energy consumption.

Are energy-efficient shopping malls the backbone of the city of Tomorrow?

Despite the fact that overall legislative frameworks and regulations do not promote shopping centers as key energy and social infrastructures to achieve ambitious targets in the ongoing urban transformation, energy-efficient shopping malls massively using RES and ESS can actually become the backbone of the city of tomorrow.

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