

Kongres Container

Feasibility of shopping mall energy storage project



Overview

How can shopping malls contribute to sustainable mobility?

A further application of the energy storage system is, in combination with a RES (reasonably a PV system), electric mobility. This can be a further positive driver for the transition from fossil fuel to sustainable energy where shopping malls can play a central role for sustainable mobility.

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 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.

Can shopping malls coordinate energy fluxes?

Additionally, in the future, shopping malls might coordinate energy fluxes, as energy hubs with managing roles in micro-grids, due to their capability to host DG. In such conditions, the ESS could also be used to provide ancillary services, such as frequency regulation.

Why do shopping malls use PV-Bess?

When the demand is completely covered and the battery is fully charged, the PV overproduction is injected into the grid. One of the main reasons motivating the use of PV-BESS in shopping malls is the intention to increase

the exploitation of on-site renewable energy, while decreasing the amount of power taken from the grid.

Can shopping malls de-carbonize urban systems?

Urban systems de-carbonization is achievable if supported by measures for energy efficiency and integration of renewable energy sources (RES). In this context, a key role can be played by shopping malls. They are usually identified as “icons of consumer society,” but they also have a huge energy retrofitting potential.

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