



BUHLE POWER

Intelligent Mobile Energy Storage Containers for Airports





Overview

To achieve the goal of a green airport, the sustainable airport oriented microgrid system is developed. The auxiliary power units (APU) of airports, which consumes huge volumes of aviation diesel, is no.

Can a mobile energy container be used to charge electric vehicles?

An innovative system for sustainable energy generation is currently in use at Munich Airport: a container with photovoltaic panels and wind rotors from FlowGen, a company specializing in green energy system solutions. In cooperation with Munich Airport, the mobile energy container is being used to charge electric vehicles.

Where is the energy container located?

The energy container is located in a parking lot used by car rental companies on the east side of the airport. There, newly delivered rental cars will be charged using energy generated by three small wind turbines and photovoltaic panels.

Do energy supply routing and storage management improve an airport's integrated energy system?

This study has shown the importance of energy supply routing and storage management in improving an airport's integrated energy system. A simulation run reveals that the RE at Copenhagen airport accounts for 81.0% of the total electricity generation during the summer and 49.0% during the winter.

How does financial sustainability contribute to the economic viability of the airport?

This financial sustainability contributes to the overall economic viability of the airport while facilitating renewable energy investments. In addition, it stimulates economic growth by creating jobs in renewable energy infrastructure development and green technologies.



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