

# Airport Solar-Powered Container Hybrid





## Overview

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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. 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.

What is an airport energy system?

In respect to energy constitutions, an airport energy system mainly includes energy sources and generation, transmission, and energy distribution. Energy demands in the airport include both static and movable energy demands.

What are the energy structures in airport terminals?

Table 1 summaries the energy structures in airport terminals, with respect to energy supply sources and system designs. Generally, multiple renewable energy sources are available in airport, like solar thermal energy, geothermal energy, biomass and solar power energy .

Can hydrogen-solar-storage systems improve airport electrification?

Xiang et al. designed a hydrogen-solar-storage system for airport electrification. Results showed that, the integration of hydrogen energy systems will decrease the total annual costs and carbon emissions by 41.6% and 67.29%, respectively.



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