

Quick Facts

Units: Avus 1600e

Generating Capacity: 4.0 MW

Configuration: Containerized



Gaylord Rockies Resort & Convention Center, owned by Ryman Hospitality Properties and managed by Marriott International, is the largest hotel and convention center in Colorado with 485,000 square feet of convention space, 69 event rooms, and 1,501 guest rooms. It has one utility feed with backup generators for critical loads only, risking major disruptions during power outages.

To improve power resiliency, the hotel partnered with Unison Energy to install a 4 MW 2G combined heat and power (CHP) microgrid. This system provides over 94% of the hotel's power and offsets 94% of its natural gas usage by capturing waste heat. The microgrid ensures continuous operation during grid outages, enhancing guest and conference experiences.



4.0 MW of installed electric capacity,
with two 2.0 MW generators operating at
73.2% efficiency

480 V operating voltage, with one 13.8 kV
step-up transformer

Load following and island mode
capabilities

Waste heat used for domestic hot water

Carbon footprint reduced by 30.4% or
14,000 tons per year