

HYATT PLACE MIDTOWN ANCHORAGE, USA

Objectives

For the planned construction of 150-room Hyatt Place, the builder and engineers approached Arctic Energy, drawn by the 20+ years of successful Capstone CHP equipment. The aim was to substantially cut the hotel's electrical and gas costs while aligning with Hyatt's sustainability goal of reducing emissions by 27.5% by 2030.

Solution

When it opened in 2018, the Hyatt Place incorporated a single grid-connect Capstone C65 ICHP. This system generates 70% of the electricity required by the hotel at full occupancy and fulfills 100% of the hotel's needs when occupancy is below 70%. Moreover, the heat produced during electricity generation serves multiple purposes, including supporting a hydronic heat loop, providing for domestic hot water, and heating the pool and hot tub.

Results

The investment achieved a rapid payback in just 2.6 years and is anticipated to result in a reduction of more than two million dollars in energy costs over the next decade. Additionally, the implementation is expected to significantly enhance the value of the real estate asset for potential future sale. The equipment demonstrates outstanding reliability with an uptime exceeding 99.9% and has remarkably reduced the hotel's carbon footprint by 70%, surpassing the benchmark set by Hyatt.

The hotel is eligible for federal incentives, including the Investment Tax Credit (ITC), which amounts to 30% of the taxpayer's basis in eligible renewable energy property, as well as 100% Bonus Depreciation and others.