

Hyatt Place Anchorage Midtown

Hospitality

The Challenge

The Hyatt Place Anchorage/Midtown, the first Hyatt Place hotel in Alaska, opened its doors in May 2019. Located in the heart of Anchorage's retail district, the five-story 93,000-square-foot establishment offers 1,300-square-foot of meeting space, and 150 guest rooms, as well as dining, social, and wellness amenities.

Hyatt Hotels Corporation has a global focus on incorporating renewable energy sources into hotel operations. During the hotel's construction phase, the management collaborated with Capstone Green Energy Distributor Arctic Energy to implement an efficient, clean energy system.

The decision to install Capstone's cogeneration system proved to be advantageous. In 2020, the hospitality sector in Alaska faced challenges due to the impact of COVID-19. Anchorage hotels, which heavily rely on summer tourism, experienced a notable decline in occupancy rates, leading some to shutter their doors.

Fortunately, the Hyatt Place Anchorage avoided a similar fate. The presence of the on-site microturbine allowed hotel managers to generate cost savings, enabling them to retain staff and continue exceptional customer service.

Power Profile

Customer

Hyatt Place Anchorage
Midtown

Location

Anchorage, Alaska

Commissioned

2018

Fuel

Pipeline Natural Gas

Technologies

- (1) C65 ICHP Microturbine

Capstone Green Energy Distributor

Arctic Energy



The Hyatt Place Anchorage team's foresight to install the Capstone CHP system led to significant savings on their electricity bill in 2020, particularly during the low-occupancy period due to the pandemic. Despite the challenges of COVID-19 affecting occupancy in 2020, the microturbine efficiently met all the property's heating and electricity requirements."

— Greg Porter, President/CEO
Arctic Energy



**Smarter Energy
for a Cleaner Future**



A C65 ICHP microturbines generates 65 kW of electrical power for Hyatt Place in Anchorage, Alaska.



The Solution

Commissioned in 2018, the hotel's combined heat and power (CHP) system features the Capstone C65 ICHP microturbine, offering a fully integrated solution. This setup accounts for nearly 60% of the building's electricity consumption.

Location. The compact and quiet machine (>65 decibels) is mounted to the rooftop outdoors. The single-unit engine requires minimal upkeep and downtime, with reduced scheduled maintenance intervals and millions of operating hours surpassing other technologies.

Operation. The microturbine's integrated heat recovery module (HRM) supplies the building's boiler heating systems through hot water storage tanks. Through cogeneration, the microturbine's exhaust heat is harnessed to generate both electrical and thermal energy.

Significance. The HRM integrated above the C65 captures the microturbine's waste heat, resulting in notable energy and cost efficiency while decreasing emissions. What's more, the Capstone heat exchanger is instrumental in heating the building's water for daily use year-round and contributes partially to winter heating.

The Results

The cogeneration system at Hyatt Place Anchorage has been fully operational since 2018. This system boosts energy efficiency, offsets grid power, and decreases carbon emissions. By ensuring a stable power supply, the hotel also plays a role in environmental conservation due to the system's near-zero emissions profile.

By the Numbers

- **\$58,078.80 utility fee savings (electricity & gas)** - In 2023, the microturbines saved 342,000kWh of energy a month, reducing the total energy consumption by more than a third.
- **Over 30,000 hours** - Approximate amount of the continuous run time logged.
- **130kW** - The energy produced by the microturbines, reducing the site's total energy consumption by more than a third.

Capstone C65 ICHP Microturbine



A C65 provides up to 65kW of electrical power while the UL-Certified C65 ICHP provides up to an additional 150kW of thermal power for CHP and CCHP applications.