

# **Hyatt Place Anchorage Midtown**

Hospitality

### The Challenge

The Hyatt Di

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-feet establishment offers 1,300-square-feet 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** 



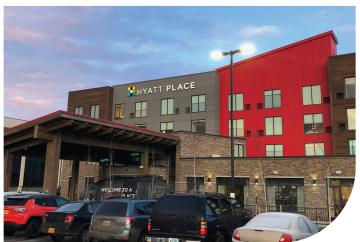
The Hyatt Place Anchorage team's foresight to install the Capstone CHP system led to significant savings on their electricity bill in 2020, particularly during the low-occupancy period due to the pandemic. Despite the challenges of COVID-19 affecting occupancy in 2020, the microturbine efficiently met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

— Greg Porter, President/CEO Arctic Energy





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



#### **The Solution**

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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 buildings 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

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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.

