



# Claridge Hotel Energy Efficiency Project Engineer of Record

## PROJECT INFORMATION

### CONCORD DIVISION

Commercial

### PROJECT LOCATION

Atlantic City, NJ

### MARKET

Hospitality

### SERVICES

Energy Efficiency



## PROJECT OVERVIEW

Total Contract Price  
\$1,047,050

Nj Clean Energy Rebate  
\$330,000

Annual Energy Savings  
\$285,000

Internal Rate of Return  
40%

Investment Recapture  
Period 2.5 years

10 Year Positive Cash  
Flow \$2,137,500

## PROJECT SUMMARY

500 room hotel on the Boardwalk in Atlantic City – a new demand based ventilation for 13 of the large air handling units with CO<sub>2</sub> sensors and variable frequency drives was installed by Rich Energy Solutions. These systems are connected via an intelligent software program to greatly reduce capacity based on occupancy.

A new domestic water booster pump system with variable frequency drives to deliver water up the 25-story tower only when needed was also installed.

The building received an LED Lighting retrofit throughout the property including common areas, bars, restaurants and guest rooms.

Occupancy based guest room thermostats with scheduling capability using a “cloud” based technology assures heating and cooling is only on when needed. These intelligent controls provide significant cost savings without sacrificing guest comfort. The system is modular and can control lighting, drapes and other convenience features.

The hotel tower hallway HVAC units were outfitted with wireless sensors and thermostats to control the guestroom floors and to detect services issues and system anomalies.