



RETRO-COMMISSIONING

Project summary

The Hyatt Regency Houston Hotel, built in 1972, has a combined total of 924,331 square feet and is used primarily for hotel rooms, conference areas, and exhibit space.

The facility is comprised of two buildings. The main building is the hotel, located at 1200 Louisiana Street, and the chiller plant is located at the Regency Garage building across the street. Most of the hotel guest rooms are conditioned by water source heat pumps with make-up air unit systems. The hotel lobby, conference rooms, and exhibit halls are conditioned by multiple single-zone/multiple-zone air handling systems and a chiller plant.

Goals and challenges

Save Energy without Compromising Quality. The Retro-Commissioning (RCx) Agent for the project was APTIM. Its engineers conducted on-site equipment assessment and testing during the Investigation Phase to:

- identify opportunities for energy savings.
- estimate the economic potential.
- define an implementation scope of work for Hyatt Regency to use as a guide for the Implementation Phase.

Solutions and results

Identify Energy Savings. Based on APTIM's findings, the Hyatt Regency team implemented chiller sequence optimization and fine-tuned the cooling tower variable frequency drives (VFD).

Reduce Energy Costs. The implemented measures greatly reduced the electrical consumption and demand of the facility. The total annual energy savings for the implemented measures are estimated at 944,509 kWh and 81.24 kW. The implementation cost was \$8,400, providing a simple payback period of 0.1 years.

This project illustrates Hyatt Regency's dedication to best practices in energy management and its commendable efforts to reduce energy consumption by participating in the CenterPoint Energy Commercial Retro-Commissioning Program.



Hyatt Regency Houston

MEASURES IMPLEMENTED:

Optimize Chiller Sequence and Optimize Cooling Tower VFDs

PEAK DEMAND SAVINGS: **81.24 kW**

ENERGY SAVINGS: **944,509 kWh/year**

PROJECT COST:



SIMPLE PAYBACK:



ANNUAL USAGE SAVINGS:



Electric Energy Efficiency

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