

# RETRO-COMMISSIONING (RCx)

**MEASURES IMPLEMENTED** Re-enable system schedules, BAS lighting controls, occupancy sensors, implement automatic CHWS set point reset, discontinue HW pump operation during summer months

**PEAK DEMAND SAVINGS** 1.2 kW

**ENERGY SAVINGS** 1,374,950 kWh/year

**PROJECT COST** \$8,850

**SIMPLE PAYBACK** 0.1 year

**ANNUAL USAGE % SAVING** 27%

## Project Summary

The Retro-Commissioning (RCx) Agent for the project was T&D Engineers, LLC. Their 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 the Houston Permitting Center to use as a guide for the Implementation Phase

Based on the T&D Engineers findings, the team implemented numerous O&M measures.

## The Results

The implemented measures greatly reduced the electrical consumption of the facility. The total annual energy savings for the implemented measures were estimated at 1,374,950 kWh. The implementation cost was \$8,850, providing a simple payback period of 0.1 years.

This project illustrates the City of Houston's dedication to best practices in energy management and their commendable efforts to reduce energy consumption by participating in the CenterPoint Retro-Commissioning Study.

## Facility Information

The original wooden facility was built in 1883 as the Houston Infirmary, providing medical care for railroad workers. In 1919 it was reconstructed and used as a warehouse until 1996. It sat vacant until the City of Houston purchased it in 2006 and began the LEED renovation that would become the HPC in 2011.

The 4-story 188,610 square foot building provides a one stop source for City of Houston permits and licenses. The air distribution and ventilation system consist of 2 rooftop energy recovery ventilation units with chilled and hot water coils, an enthalpy total recovery wheel and passive dehumidification/reheat wheel providing preconditioned outside air to all floors.

For more information, please contact:

### Kenya West

713-207-4211

[kenya.west@centerpointenergy.com](mailto:kenya.west@centerpointenergy.com)

### Dave Ledbetter

904-861-7422

[dledbetter@resource-innovations.com](mailto:dledbetter@resource-innovations.com)