

## SHOWCASE PROJECT: HOUSTON HOUSING AUTHORITY: HISTORIC OAKS OF ALLEN PARKWAY

### SOLUTION OVERVIEW

The Historic Oaks of Allen Parkway (HOAPV) is located on the edge of the Downtown Houston Central Business District, on Allen Parkway Boulevard, just south of Buffalo Bayou Park. Originally built in the late 1930's, HOAPV consists of 56 buildings, comprising 500-units. There are 16 concrete and masonry buildings, which are part of the historic senior community and the historic family village. Another 40 buildings are modern new construction multifamily housing.

### SECTOR TYPE

Multifamily

### LOCATION

Houston, Texas

### PROJECT SIZE

484,000 Square Feet

### SOLUTIONS

Houston Housing Authority is focusing on energy efficient technology to reduce energy consumption by 20% over 10 years. The key to the success of this commitment will be the implementation of an Energy Savings Contract (ESCO). All sources of energy, Electric, Gas and Water will operate substantially more efficient and the Agency will benefit multiple ways.

Installing new LED technology lighting to buildings and parking Lot/Common areas will provide a safe and comfortable environment for all of residents. The interior of the units will receive upgrades with LED lighting, new energy efficient toilets, water heaters and fixtures. High efficient HVAC equipment will improve the air quality and savings to the resident. Some measures include:

- Domestic water heater replacement in common areas and units
- HVAC replacement and Energy Management Control System (EMCS) upgrades
- LED lighting installed in common areas, exteriors and within the units
- Air-sealing in units
- Irrigation upgrades
- Low-flow aerators and toilets installed in common areas and in units.
- Electric stove safe-T Burners in units

## **OTHER BENEFITS**

Houston Housing Authority has established a goal to provide a higher quality of life for tenants, a clean and safer environment, along with the ability to manage buildings and operations much more efficiently. Houston Housing Authority has focused on capital improvements will increase asset value of the property, provide better control and reduce maintenance operations, while providing a comfortable safe quality of life for residents.

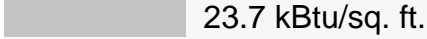
## Annual Energy Use

(Source EUI)

Baseline(2013)



Expected(2016)



Actual()



## Energy Savings

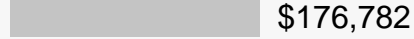
57%

## Annual Energy Cost

Baseline(2013)



Expected(2016)



Actual()



## Cost Savings

\$125,877



Historic Oaks of Allen Parkway with playground and cityscape



Historic Oaks of Allen Parkway entrance



Historic Oaks of Allen Parkway open area



Historic Oaks of Allen Parkway walkway