

## **Facility Upgrades - Done**

Alliant Energy performed energy audits at major city-owned facilities in 2012. The following energy conservation measures were implemented as suggested.

### **City Center**

- Install occupancy sensors for the atrium lights
- Install LED mural lighting
- Install daylight controls on the outer row of library lights
- Install outside light timers
- Replace outdoor lights with LEDs
- Replace indoor lights with LEDs
- Install new doors
- Install new exhaust fans - \$2500 per fan, electric drive fan replacing belt drive fan
- Install occupancy sensors in meeting rooms
- Replace the HVAC system

### **City Garage**

- Replace 400-Watt HID lights with T8 fluorescents
- Install occupancy sensors on the 6-Lamp T8 fixtures
- Retrofit the T12 fixtures with T8 lamps and electronic ballasts
- Install exterior LED fixtures around the Garage – the City replaced 27 lights for a cost of about \$8,450.
- Install new furnaces in the Garage offices
- Reduce compressed air pressure
- Install correctly sized high energy factor water heater

### **Lift Stations**

- Install accurate temperature controls in the lift stations

### **Street Lighting**

- Install LED street lighting – the City has worked with Freeborn-Mower to replace 400 Watt MVs, plans to replace ornamental lights over the next two years.
- Retrofit 400-Watt mercury vapor fixtures to 250-Watt EHID fixtures

### **Airport**

- Retrofit the T12 fixtures with T8 lamps and electronic ballasts
- Install LED runway lights
- Replace halogen lamps with LED lamps in the illuminated arrows
- Install occupancy sensors in the restrooms
- Install weather-stripping on the repair hanger door

### **WWTP**

- Replace incandescent lamps with CFLs – replace as they fail, \$20,000 done in 2013

- Replace incandescent lamps with 2-lamp T8 fixtures
- Install LED exterior lighting – replace as they fail, 1/8 done
- Retrofit the T12 fixtures with T8 lamps with electronic ballasts
- Install LED exit signs
- Replace the gasket that feeds methane to the microturbines
- Install premium efficiency motors – replace as they fail
- Install weather-stripping on the exterior doors - ongoing

#### **Ice Arena**

- Install LED wall packs – replace as they fail, about 50% done
- Have the desiccant dehumidification system tuned
- Install desiccant dehumidification system in the new arena
- Repair the control system on the new arena's refrigeration system
- Reduce ice temperature
- Install condensing water heater
- Install vending machine controls
- Bring fresh air to the arenas – done by new dehumidifiers
- Replace lamps with LEDs

#### **Aquatic Center**

- Increase efficiency on the water slide pump
- Increase efficiency of the filter pumps
- Install high efficiency boilers

#### **Performing Art Center**

- Install demand controlled ventilation

#### **Senior Center**

- Replace incandescent lamps with CFLs