



## SUCCESSES

### BUILDINGS AND FACILITIES

#### SOLAR HOT WATER



- *Retrofitted natural gas hot water heating system with solar heating system in jail*
- *Annual savings of 4,640 therms and 552 kWh*
- *Incentives from Focus on Energy and WE Energies*
- *Installation of new, low-flow toilets 53% reduction*

#### OZONE WASHING MACHINES



- *Installed ozone generator washing machines saving gas and electricity*
- *Reduced chemical usage*
- *Kills bacteria more effectively than bleach*
- *Annual savings, 11,556 therms and 14,618 kWh*
- *Total annual energy savings of \$13,018*  
*Focus on Energy Incentives*

#### ICE ARENA HVAC UPGRADES

- *Installed dehumidification system that uses "waste" heat from the chiller system to dehumidify Ice Arena in place of a natural gas dehumidifier.*
- *Estimated 60% Natural Gas Reduction*

## ICE ARENA LIGHTING PROJECT



- Replaced 400 watt metal halide fixtures with Four-foot T8 Hi-Bay 6-lamp fixtures
- Replaced T12 magnetic fixtures with a T8 system
- Installed sensors in lobby and LED exit signs
- Annual savings - estimated 117,200-kilowatt hour reduction, or \$11,500 per year.

## HEATING SYSTEM - SUCCESSES

### **Courthouse Chiller Replacement**

- Est. 15% reduction in chiller electrical consumption

### **Northview Boiler Replacement**

- Reduced natural gas consumption 41%
- Reduced electrical consumption 5%

### **Juvenile Center Boilers**

- Project a 10% increase in combustion efficiency
- Reductions in electricity & gas consumption

### **Courthouse Boilers**

- Replaced 45 year-old boiler and associated equipment
- Increased combustion efficiency 15-20%
- Focus On Energy incentive of \$17,782

### **Law Enforcement Center**

- Replaced water condensing units in Law Enforcement Center with air cooled units  
50% savings in water use, 40,000 annually

## INTERIOR LIGHTING

- Installed motion detectors in common rooms
- 966 lighting fixture upgrades in Law Enforcement Center
- Exposition Center 273 lighting fixture upgrades
- Energy savings of 30% to 90% depending on the fixture

## HIGHWAY SUBSTATION UPGRADES

- *Installed energy efficient lighting at substations reducing electrical use by 25,976 kWh  
Focus on Energy Incentive*
- *HVAC control upgrade included temperature setbacks and coordinating heater operation with worker activity 58% saving in gas usage  
Focus on Energy Incentives*

## GEOHERMAL SYSTEM

- *Installed geothermal heating and cooling system at the Retzner Nature Center*
- *30 geothermal wells collecting the earth's heat down to 200 feet*
- *Estimated 40 – 60% energy savings*