

City of Seminole

Energy Efficiency Efforts

- Replaced the HVAC units at City Hall and the Recreation Center to more efficient chilled water systems that have reduced energy demands.
 - Reduced energy demand for City Hall 33%
(based on annual kWh estimates)
Annual estimated cost saving since the HVAC conversion = \$13,000
 - Reduced energy demand for Recreation Center 36%
(based on annual kWh estimates since install)
Annual estimated cost saving since the HVAC conversion = \$69,000
- Replaced the Recreation Center Sports Field lighting fixtures with a more efficient system.
- Replaced all holiday street decoration lights to LED bulbs. The conversion saved approximately 90% on the overall energy needs.
 - Annual cost prior to LED conversion = \$5600*
 - 2012 Holiday lighting costs = \$498*
 - Total annual cost saving s= \$5100*
- All City traffic lights have been converted to LED lighting. The LED lights greatly reduced the energy consumption and maintenance needs.
 - Annual cost prior to LED conversion = \$24,000*
 - 2012 traffic light electric cost = \$13,924*
 - Total annual cost savings = \$10,000*
- Construction of LEED certified Public Works and EOC facilities that utilize Solar PV systems that substantially reduced the energy needs. For example:
 - The **Public Works Operations** building has **generated a net excess in** power from the solar system that offset the base energy charges for the year. In other words, the City will have paid **zero** for electrical use since 2011.
 - Estimated annual electric use = 112,000 kwh*
 - Estimated annual cost savings (112,000x .11c/kw) = \$12,000*
 - The **PW Admin/ EOC** is estimated to be **generating** approximately 50% of the total energy demand.
 - Estimated annual electric cost = \$3000*
 - Estimated annual cost savings = \$3000*