



CITY COUNCIL AGENDA ITEMS

To: Mayor Graham and City Council
From: Dennis Sullivan, Director of Engineering & Public Works
Walter Denton, City Administrator
Date: June 6, 2005
Subject: RESOLUTION – Grant Agreement, Illinois Clean Energy Community Foundation, LED Traffic Signal Upgrade Project

List of committees that have reviewed: Public Works Committee.

Background: The grant (\$28,730 maximum) is to assist the City in upgrading all the traffic signals lights in the City to LED-type versus the incandescent lamps used currently at 15 intersections in the City. Incandescent lamps cost about \$2.50 each with a life expectancy of 8,000 hours. LED lamps cost nearly \$200 each with a life expectancy of 80,000 hours. So, why change to LED-type signal lights? Under IDOT's regional service contract it costs the City \$60 to change out a red, yellow, or green signal lamp. So, it would cost at current prices \$600 to change out the incandescent type lamp for every time we would have to change out an LED lamp for about \$260.00. Then the LED lamp uses only 1/10 the energy that the incandescent lamp uses. Sacramento, California reported in 1995, that conversion of traffic signals to LED-type at an intersection caused the 30-day electric bill for operation of the intersection's lights to drop from \$148 to \$22. That was a \$1,500 savings in electric costs per year. If such savings were realized here, that would mean the City would save in excess of \$15,000 per year in energy costs

Legal Considerations, if any: None

Budget Impact: The total cost of the project is \$70,000. Therefore the balance of the cost above the grant will have to be paid for out of the general fund monies set aside for street maintenance.

Staff recommendation: Staff recommends passage of the RESOLUTION.