

The City of Two Rivers has been using High Pressure Sodium, HPS, lighting since the late 1980s. We now have that opportunity again with light emitting diode, LED, lights. The current lighting, will afford the City of Two Rivers an opportunity to save over \$30,000 in energy costs by converting to LED lights.

LED lights provide a perceptively brighter light while using less energy, less light trespass ( light is directed more to the intended area with less spill over) and long life with reduced maintenance ( 10 years! versus under 5 for the existing lights). Our light fixtures use a 4000K color which has a softer look than the 5000K versions yet is much whiter than the 2000K HPS lights. The result is a more vibrant light with more accurate color rendering.

Efforts are currently underway with our Linecrews to convert from HPS to LED. Washington Street is now complete and city wide street lights are in progress and planned to be completed within 3 years. Replacements are planned as the existing lights fail or if we have other overhead work in the area.

Ornamental LED replacements a retrofit kit such that it is only noticeable with the lights on. Regular street light replacements are a new fixture and have a low profile look both on and off.



**Washington Street/Ornamental Street Lights –**

**Energy Savings (120 lights)**

<b>Operating Cost of HPS Lights</b>	<b>\$</b>	<b>7,392.47</b>	
<b>Operating Cost of LED Lights</b>	<b>\$</b>	<b>1,147.38</b>	
	<b>Savings</b>	<b>\$</b>	<b>6,245.09</b>

**City Wide Street Lights - Energy Savings (900 lights)**

		<i>ENERGY</i>	
<b>HPS Lighting Total</b>		<b>\$</b>	<b>38,399.36</b>
<b>LED Lighting Total</b>		<b>\$</b>	<b>14,170.06</b>
	<b>Savings to City</b>	<b>\$</b>	<b>24,229.30</b>