LED STREETLIGHT PROJECT

Lyon-Lincoln Electric Cooperative, Inc.
PROJECT OVERVIEW

• Approached by City of Russell in April 2013
• Reviewed current lighting configuration
• Identified options for reducing energy use
• Contacted local Clean Energy Resource Team Coordinator in September 2013 looking for available grants and incentives
• Expanded scope to include cities of Arco and Lynd
• Submitted Grant Application through CERTs team in October 2013
• Grant approved to cover a portion of labor expense on project
• Budgeted for first phase of project in 2014
• Completed replacement of all street lights within the city of Russell in May 2014
ORIGINAL LIGHTING CONFIGURATION

- 72 Mercury Vapor lights – 175 Watts Each
- 23 High Pressure Sodium lights – 100 Watts Each
- 7 400 Watt street lights

- 2012 Annual Street Lighting Expense - $9,713
- 2012 Annual kWh use for Street Lighting – 84,473 kWh

- 2013 Annual Street Lighting Expenses - $9,607
- 2013 Annual kWh use for Street Lighting – 79,092 kWh
PROPOSED LIGHTING CONFIGURATION

• Conducted photometric study to identify proper lighting configuration
• Obtained three bids for lighting solutions
• Decided on a 48 Watt, Type III 5700 K secure lite with a 6’ stranded pigtail
• Issued a Purchase Order for 104 lights in early February.
• 8 week lead time
• Began installation during the second week of May, 2014
• Completed change-out of 104 lights (76.5 labor hours) (3 men, 3 + days)
METER 1 – 1 YEAR OVERVIEW

Previous Year's Normalized Usage Reading

- Trend
- Graph Type: Load Profile, Voltage Profile, Demand, Usage (Normalized)
- Time Period: 1D, 1W, 1M, 3M, 1Y, Custom
- Chart Style: Line, Column
- Archived Usage Data: HTML, CSV, PDF
- Normalized Usage Data: HTML, CSV, PDF
METER 1 – 3 MONTH LOOK

Previous Three Month's Normalized Usage Reading

Graph Type: Load Profile | Voltage Profile | Demand | Usage (Normalized)
Time Period: 1D | 1W | 1M | 3M | 1Y | Custom
Chart Style: Line | Column
Archived Usage Data: HTML | CSV | PDF
Normalized Usage Data: HTML | CSV | PDF
PROJECTED SAVINGS

- Potential Annual kWh savings of 61,577 kWhs year
- Potential $ Savings of $5570 per year
- Savings of $16.50 per resident per year based on 2010 Census