

## City of Red Lodge Energy Projects

Council Update, 8/9/16

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### LED Streetlights

- Completed LED retrofit of 14 streetlights on Broadway Avenue from 8<sup>th</sup> Street to 3<sup>rd</sup> Street.
- Replaced 70W metal halide with 30W LED.
- Monthly costs will decrease from \$205 (December 2015) to \$68; will save \$1,200 a year.
- Payback will be 3.2 years.

#### 2016-2017

- Document installation of LED's and establish ongoing monitoring process.
- Document potential cost savings for the remaining decorative streetlights on Broadway.
- Work with Council to determine next steps for potentially purchasing streetlights.



### Electric Vehicle Charging Stations

- Installation of four Charging Stations, painted curb stops, signage and donation box completed.
- Received \$11,000 in installation costs from Tesla Motors and Yellowstone Teton Clean Cities.
- Waiting on a tracker from Yellowstone Teton Clean Cities as promised with our rebate.

#### 2016-2017

- Document all information and procedures used for installation.
- Develop and conduct ongoing monitoring process that documents vehicle usage, energy costs and maintenance issues.



### LED Lighting Retrofit for City Buildings

- Energy Audit completed January 2016 for Fire Station, City Hall, Police Station and Public Works buildings.
- Boilers and water heating units were in good condition; biggest potential energy savings is lighting.
- LED Retrofit Analysis nearly completed for City Buildings – City Hall, Police, and Public Works.
- Public Works retrofit would also provide safety benefits due to better lighting.
  - Payback is higher than anticipated – 7 years.

#### 2016-2017

- Complete retrofit analysis for City buildings; final decision to be made by Council.
- Manage installation and document all supplier and installer information.
- Establish ongoing monitoring process to document monthly cost savings.

### **Solar Panel Analysis for City Buildings**

- Gathered necessary data including rooftop square footage, potential production, cost and design.
- Completed Wastewater Treatment Plant Solar Panel Analysis; figured production and cost savings for the last the six years.

2016-2017

- Complete full written analysis for City buildings
- Research financing mechanisms, including grant opportunities and tax incentives.

### **Recycling**

- Opportunities and pitfalls have been identified.
- Recycling Facebook page has launched – almost 200 likes.
- Increased recycling within the school district with the Green Team.

2016-2017

- Provide advice to the Red Lodge Recycling Board.

### **High School Green Team**

- Successfully raised \$7,500 for solar project. Installation date still unknown.

2016-2017

- Work on windmill project.
- Provide additional support as needed.

### **Greenhouse Gas Inventory**

2016-2017

- Complete City operations inventory and full written document analysis.

### **Energy Conservation Plan**

2016-2017

- Research to determine if an energy conservation plan for the City to adopt is necessary and viable.
- Complete Energy Audits of Wastewater and Water Treatment Plants.

**Red Lodge Recycling**

What we do take.  
What we don't take

**what we take:**

- newspaper • magazines • office paper • junk mail
- shredded paper • cardboard • milk jugs • tin cans
- #1 plastic pop bottles • aluminum can • #2-7 plastics
- electronics\*

\* Restrictions apply - See electronic recycling for more info

**what we DON'T take:**

- styrofoam • glass • plastic bags of any kind

The graphic features a recycling symbol and a grid of icons. The top row shows icons for newspaper, magazine, cardboard box, and milk jug. The bottom row shows icons for a pop can, another pop bottle, a tin can, and a television. Below the icons, a green box lists 'what we take' and another green box lists 'what we DON'T take'.