




# **Energy Conservation Plan Objectives & Timeline**



## Scope & Objective

- “Facilities and vehicles that are directly financially controlled by the City government.” - Baseline Inventory
- To create an energy roadmap for the City of Red Lodge that identifies reduction targets and strategies, and ultimately results in reductions of energy use, energy costs and greenhouse gas emissions.

# Timeline

 Activity	Objective
<b>February</b> Meeting #1	<ol style="list-style-type: none"><li>1: Establish a common knowledge base</li><li>2: Discuss reduction goals</li><li>3: Discuss focus areas and strategies</li></ol>
<b>March</b> Meeting #2	<ol style="list-style-type: none"><li>1: Decide on focus area specific strategies</li></ol>
<b>April</b> Meeting #3	<ol style="list-style-type: none"><li>1: Discuss and approve all strategies</li><li>2: Add any additional strategies that are not sector specific</li></ol>
<b>May</b> Meeting #4	<ol style="list-style-type: none"><li>1: Decide on a reduction target goal</li><li>2: Establish a plan for monitoring &amp; reporting</li></ol>
<b>June</b> Release Draft Plan	<ol style="list-style-type: none"><li>1: Present Plan to the Taskforce and make edits</li><li>2: Present Plan to the Public, hold public meeting &amp; survey</li></ol>
<b>July</b> Finalize Plan	Finalize Energy Conservation Plan & present to Council for approval



# Today's Objectives

1. Establish a common knowledge base
2. Discuss reduction goals
3. Discuss focus areas and strategies



# Components of an Energy Conservation Plan

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# City of Red Lodge Baseline Inventory

<http://cityofredlodge.net/wp-content/uploads/2017/06/City-GHG-Analysis-Final-with-Title.pdf>



# Reduction Goals of Other Communities



# Community #1

Baseline Inventory Year -- 2008	11,540 mtCO <sub>2</sub> e
7 Years later -- 2015	10% reduction
9 Years later -- 2017	30% reduction
12 Years later -- 2020	50% reduction
17 Years later -- 2025	Carbon Neutral



## Community #2

Baseline Inventory Year -- 2000

6,083 mtCO<sub>2</sub>e

20 Years later -- 2020

15% reduction



## Community #3

Baseline Inventory Year -- 2007	14,536 mtCO <sub>2</sub> e
5 Years later -- 2012	12% reduction
15 Years later -- 2022	Net Zero



# **Reduction Strategies & Focus Areas of Other Communities**

# Community #1 Focus Areas



1. Fleet and Facilities
  - a. Bike Fleet Infrastructure & LEED Existing Building Policy
2. Internal Policies and Practices
  - a. Flexible Work Scheduling & Printing Policies
3. Renewable Energy and Offsets
  - a. Solar PV Installations & Urban Tree Planting
4. Additional Actions and Strategies
  - a. Permeable Surfaces & De-Construction Policy

# Community #2 Focus Areas



1. Planning, Building and Energy
  - a. Convert to Daylight Janitorial Services & Manage Energy Use
2. Transportation and Land Use
  - a. Increase City Fuel Efficiency Standard & Anti-idling Ordinance
3. Waste, Water and Recycling
  - a. Install Wind Turbine & Stop Purchasing Bottled Water
4. Education
  - a. Create Tree Planting Program & Office of Sustainability
5. Implementation
  - a. Create a Yearly Inventory of GHG Emissions



# Community #3 Focus Areas



1. Building Energy
  - a. No Space Heater Policy & Reduce Number of Printers
2. Vehicle Fleet
  - a. Remove Roof Racks & Convert to Electric Vehicles
3. Water
  - a. Install Automatic Faucets & Solar Panels at Remote Pump Stations