

**EMP**

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**ENVIRONMENTAL  
MASTER PLAN  
At-A-Glance**

# WHAT IS THE EMP?

The Environmental Master Plan (EMP) was created to help The City of Red Deer understand and improve environmental performance in its operations and in the community, ensuring Red Deer continues to be a healthy and desirable city in which to live, work and play.



## HIGHLIGHTS OF ACHIEVEMENTS

*2021 marks 10 years since the EMP was first adopted by Council as a planning tool. Much has been achieved, including:*



Implemented the Green Cart program, reducing residential waste to landfill and decreasing GHG emissions



Installed co-generation at Collicutt Centre and solar panels at Sorensen Station



Facilitated community renewable energy installations throughout the city, expanding to one hundred times 2010's capacity



Created Urban Forest Management Plan to help us maintain a sustainable urban forest and all its health, social and environmental benefits



Water use targets have been consistently achieved and strengthened



Installed methane flaring at the Waste Management Facility to reduce GHG emissions



Trialled an electric vehicle and used grants to purchase other EVs



Worked to reduce emissions from Transit by switching to natural gas buses



Used a grant from Federation of Canadian Municipalities to hire a Climate Change Specialist

# SIX FOCUS AREAS



WATER



WASTE



ENERGY



ECOLOGY



COMMUNITY DESIGN



AIR



There are **20 ACTIONS** recommended to help achieve the EMP's goals and targets.

*The EMP has earned 2 awards from Alberta Urban Municipalities Association (AUMA).*



## EXAMPLES OF EMP-RELATED WORK CURRENTLY UNDERWAY

5-year review of the Water Conservation, Efficiency and Productivity Plan

Coordinating Year of the Garden 2022

Launching an Urban Agriculture Action Project

# WHAT IS THE STATUS OF THE METRICS

METRIC	DESCRIPTION	STATUS	NOTES
<b>WATER</b>			
<b>POTABLE WATER CONSUMPTION</b>	Residential and industrial/commercial/institutional water consumption	<b>ON TRACK</b>	On track to achieve 2035 target
<b>WATER LOSSES</b>	Includes unmetered water, thefts, leaks and water main breaks	<b>ON TRACK</b>	Currently achieving the 2035 target
<b>WATER QUALITY</b>	Monitoring water quality in our flowing water bodies	<b>PARTIALLY ACHIEVING</b>	Of the five parameters being monitored, most are trending in the right direction but we are not achieving two of the five
<b>WASTE</b>			
<b>OVERALL WASTE DISPOSAL</b>	Total amount of solid waste disposed by Red Deerians	<b>NOT ACHIEVING</b>	While trending in the right direction, we are unlikely to achieve the 2023 target
<b>RESIDENTIAL SOLID WASTE</b>	Residential garbage collected curbside in the city	<b>PARTIALLY ACHIEVING</b>	Achieved the 2020 target but will be challenged to achieve the 2023 target
<b>WASTE DIVERTED</b>	Waste diverted from the landfill	<b>NOT ACHIEVING</b>	While trending in the right direction, we are unlikely to achieve the 2023 target
<b>ENERGY</b>			
<b>RENEWABLE AND ALTERNATIVE ENERGY</b>	Renewable or alternative electricity we can generate to meet the average electricity demand	<b>PARTIALLY ACHIEVING</b>	Significant gains have been made but there is work to be done to achieve the 2035 target
<b>COMMUNITY ENERGY USE</b>	Total annual energy use for all of Red Deer: residential, commercial and industrial/commercial/institutional sectors	<b>PARTIALLY ACHIEVING</b>	We are currently achieving the 2035 target, but with population growth will be challenged to continue to achieve
<b>ECOLOGY</b>			
<b>PROTECTED AREAS</b>	The share of area protected from development as a percent of the overall urban area	<b>ON TRACK</b>	On track to achieve 2035 target
<b>TREE SPECIES SUITABILITY</b>	Portion of tree population on City owned and managed land suitable for Red Deer's urban environment and adapted to regional conditions	<b>PARTIALLY ACHIEVING</b>	While trending in the right direction we will be challenged to achieve the 2035 target
<b>TREE SPECIES DIVERSITY</b>	Monitoring the genetically diverse tree population on City owned and managed property	<b>PARTIALLY ACHIEVING</b>	We will be challenged to achieve the 2035 target
<b>INTEGRATED PEST MANAGEMENT/ PESTICIDE USE</b>			Metric being refined
<b>COMMUNITY DESIGN</b>			
<b>LENGTH OF BICYCLE AND PEDESTRIAN ROUTES</b>	Length of all bicycle and pedestrian routes per hectare of urban development	<b>PARTIALLY ACHIEVING</b>	While trending in the right direction we will be challenged to achieve the 2035 target
<b>FUEL CONSUMPTION</b>	Total gasoline and diesel consumed annually in Red Deer	<b>ON TRACK</b>	On track to achieve 2035 target
<b>EMISSIONS FROM TRANSPORTATION</b>	Greenhouse gas (GHG) emissions attributed to transportation in Red Deer	<b>ON TRACK</b>	On track to achieve 2035 target
<b>TRANSIT RIDERSHIP</b>	Annual transit trips taken on Red Deer Transit	<b>PARTIALLY ACHIEVING</b>	We will be challenged to achieve the 2035 target
<b>LAND DEVELOPMENT FOOTPRINT</b>	Measuring the amount of land within the city that is zoned for urban uses and roads	<b>PARTIALLY ACHIEVING</b>	While trending in the right direction we will be challenged to achieve the 2035 target
<b>COMMUNITY GARDEN PLOTS</b>	Number of garden plots and the number of people who benefit from produce grown	<b>PARTIALLY ACHIEVING</b>	While trending in the right direction we will be challenged to achieve the 2035 target
<b>AIR</b>			
<b>AIR QUALITY</b>	Measuring concentrations of airborne pollutants	<b>PARTIALLY ACHIEVING</b>	We are currently achieving three of the four parameters, but will be challenged to achieve the 2035 targets
<b>GREENHOUSE GAS EMISSIONS</b>	Measuring GHG emissions for The City of Red Deer as an organization and for Red Deer as a whole	<b>PARTIALLY ACHIEVING</b>	While trending in the right direction, we will be challenged to achieve the 2035 targets



**SEE REVERSE  
METRICS  
STATUS**

Progress on the metrics is reported annually at

[reddeer.ca/EMP](http://reddeer.ca/EMP)

