

A graphic on a green wood-grain background. It features four arrows: a yellow arrow pointing down from the top left, a teal arrow pointing down from the top left, a red arrow pointing down from the top right, and a purple arrow pointing right from the bottom left. The text 'EMP' is in yellow, and the rest of the title is in white.

EMP

**ENVIRONMENTAL
MASTER PLAN
At-A-Glance 2022**

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 marked 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



Energy Efficiency Rebate Program launched to help residents reduce energy use in their homes

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 Municipalities.



EXAMPLES OF EMP-RELATED WORK CURRENTLY UNDERWAY

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

Community-based initiatives
such as Year of the Garden and
increasing production and
consumption of local food

Launch Environmental
Initiatives community grant

WHAT IS THE STATUS OF THE METRICS*

METRIC	DESCRIPTION	STATUS	NOTES
WATER			
POTABLE WATER CONSUMPTION	Residential and industrial/commercial/institutional water consumption	ACHIEVING	On track to achieve 2035 target
WATER LOSSES	Includes unmetered water, thefts, leaks and water main breaks	ACHIEVING	Currently achieving the 2035 target
WATER QUALITY	Monitoring water quality in our flowing water bodies	PARTIALLY ACHIEVING	Of the five parameters being monitored, we are not achieving two of the five
WASTE			
OVERALL WASTE DISPOSAL	Total amount of solid waste disposed by Red Deerians	NOT ACHIEVING	While trending in the right direction, we are unlikely to achieve the 2023 target
RESIDENTIAL SOLID WASTE	Residential garbage collected curbside in the city	ACHIEVING	Achieved within 2% of the 2023 target
WASTE DIVERTED	Waste diverted from the landfill	PARTIALLY ACHIEVING	While trending in the right direction, we are unlikely to achieve the 2035 target
ENERGY			
RENEWABLE AND ALTERNATIVE ENERGY	Renewable or alternative electricity we can generate to meet the average electricity demand	NOT ACHIEVING	Significant gains have been made but there is work to be done to achieve the 2035 target
COMMUNITY ENERGY USE	Total annual energy use for all of Red Deer: residential, commercial and industrial/commercial/institutional sectors	PARTIALLY ACHIEVING	We are currently achieving the 2035 target, but with population growth will be challenged to continue to achieve
ECOLOGY			
PROTECTED AREAS	The share of area protected from development as a percent of the overall urban area	PARTIALLY ACHIEVING	Could theoretically achieve this target but recent growth has been stagnant
TREE SPECIES SUITABILITY	Portion of tree population on City owned and managed land suitable for Red Deer's urban environment and adapted to regional conditions	PARTIALLY ACHIEVING	While trending in the right direction, we will be challenged to achieve the 2035 target
TREE SPECIES DIVERSITY	Monitoring the genetically diverse tree population on City owned and managed property	PARTIALLY ACHIEVING	We will be challenged to achieve the 2035 target
INTENSITY OF SYNTHETIC PESTICIDE USE ON CITY LAND	Amount of pesticide used on publicly accessible City-owned and maintained land	ACHIEVING	Currently achieving the 2035 target
COMMUNITY DESIGN			
LENGTH OF BICYCLE AND PEDESTRIAN ROUTES	Length of all bicycle and pedestrian routes per hectare of urban development	PARTIALLY ACHIEVING	While trending in the right direction, we will be challenged to achieve the 2035 target
FUEL CONSUMPTION	Total gasoline and diesel consumed annually in Red Deer	ACHIEVING	While currently on track we will be challenged to achieve the 2035 target
EMISSIONS FROM TRANSPORTATION	Greenhouse gas (GHG) emissions attributed to transportation in Red Deer	ACHIEVING	On track to achieve 2035 target
TRANSIT RIDERSHIP	Annual transit trips taken on Red Deer Transit	NOT ACHIEVING	We will be challenged to achieve the 2035 target
LAND DEVELOPMENT FOOTPRINT	Measuring the amount of land within the city that is zoned for urban uses and roads	PARTIALLY ACHIEVING	While trending in the right direction, we will be challenged to achieve the 2035 target
COMMUNITY GARDEN PLOTS	Number of garden plots and the number of people who benefit from produce grown	PARTIALLY ACHIEVING	While trending in the right direction we will be challenged to achieve the 2035 target
AIR			
AIR QUALITY	Measuring concentrations of airborne pollutants	PARTIALLY ACHIEVING	We are currently achieving two of the four parameters, and will be challenged to achieve the 2035 targets
GREENHOUSE GAS EMISSIONS	Measuring GHG emissions for The City of Red Deer as an organization and for Red Deer as a whole	PARTIALLY ACHIEVING	While trending in the right direction, we will be challenged to achieve the 2035 targets

* Status of the metrics is based on 2021 data



Progress on the metrics is reported annually at

reddeer.ca/EMP

