

Climate Action Plan: Progress Report 2021

November 2022





Saskatoon's Climate Commitments





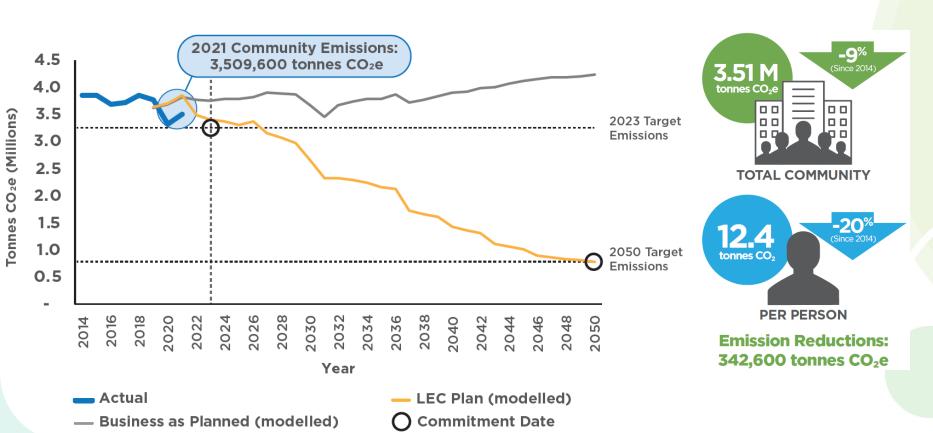


Global Covenant of Mayors for Climate & Energy





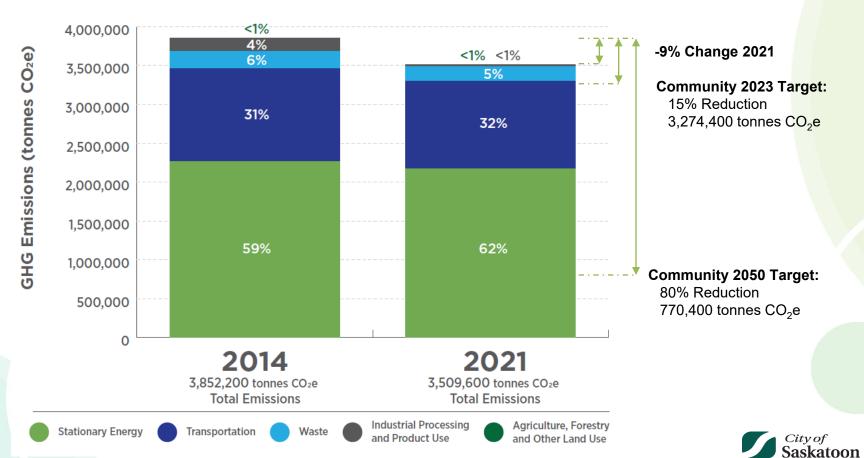
GHG Emissions Progress





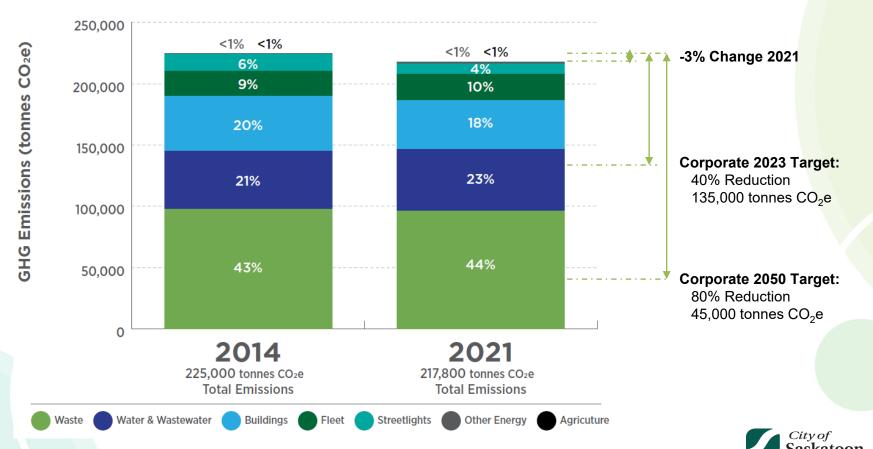


Community GHG Emissions Target





Corporate Emissions Target





Progress Report Content

LEC Plan Report Card

Buildings and Energy Efficiency

#	Action	Start Date (planned)	Responsible Department		Other Indicators Being Considered	Performance (against target)	Progress Update	Budget 2020-21 (000's)		Progress Score 2021
01	Apply energy efficiency standards (build to Passive House) to all new municipal buildings.	2020		100% of new municipal buildings meet the Passive House/Net-zero Energy- ready [‡] standard immediately (2020).	# buildings that are not built to Net- zero Energy-ready	0% Buildings built to Net- zero Energy- ready.	High Performance Civic Building Policy enacted 2022 and requires new buildings be Net-zero Energy-ready. Fire Hall Five designed to LEED Silver (not Passive House / Net-zero Energy-ready) ⁴ . No buildings have started the design phase since January 2022 (when policy passed).	\$75	\$0	Implementation

Corporate Adaptation Plan Report Card

Assets

Action	Initiative	Start Date (planned)	Responsible Department	Progress Update	Budget 2020-21 (000's)	Budget 2022-23 (000's)	Progress Score 2021
K. Integrate climate risk consideration and resiliency building options in the development of the Corporate Asset Management Program.	K24. Develop and document processes that allow future climate projections to be considered in the design of new and upgraded corporate assets.	2020-2021	Organizational Strategy Execution	No progress. Updates to the City's new Enterprise Asset Management System are planned after it launches in 2022.	\$0	\$0	Not started
	K25. Review all corporate design/construction standards and building code requirements against projected climate change in order to identify and inventory areas where future conditions could surpass current thresholds.	2022-2025	Construction and Design, Facilities Management, Parks	Contract awarded for condition assessments of civic buildings. Assessments of one quarter of buildings in-progress. Facilities is documenting design/construction standards. The first two phases are standards related to arc flash safety and standards based on leveraging the work done in the Energy Performance Contract Project. Additional phases will be added in 2023.		\$1,038°	Development ●●・・・・





LEC Plan Report Card





Buildings and Energy Efficiency



Energy efficiency of civic and community buildings includes improving insulation, changing windows, improving heating and cooling systems, and replacing lights and appliances.

11/16 actions are on track Stationary Energy Emissions



CHANGE

As of September 2022, the Home Energy Loan Program has approved 242 applicants; 64 projects are underway and 19 are completed with an estimated GHG reduction of 71 tonnes each year!

Lights have been replaced in most civic buildings resulting in energy and cost savings.

The High Performance Civic Building Policy was passed in 2022 requiring all future civic buildings to be built to LEED Silver.





Transportation



GHG reductions will come from encouraging everyone to drive less and walk, cycle, or bus more as well as electrifying municipal and community vehicles.

7/7 actions are on track 12% active transportation mode share.

Transportation Emissions



-6% CHANGE

The EV bus pilot showed that electric buses can save money and GHGs. The City will buy 2 new buses and has applied for federal funding for more.

Charging stations are scheduled to be installed at Leisure Centres in 2022 and an EV Roadmap will be developed in 2023.

Construction of a pilot BRT station commenced and planning for full implementation in progress.



Waste



waste diversion which will require recycling, organics diversion and reduction by the City, residents, and businesses.

1/1 action is on track
25% Waste Diverted from the
City Landfill

Waste Emissions



CHANGE

Residential organics program will launch in 2023.

Businesses and organizations will be required to divert their waste in 2023.

Recovery Park - a one-stop recycling and diversion center - is currently being constructed.



Water Conservation



Water takes energy to treat and pump, so reducing potable water use (especially at peak times) helps reduce GHGs.

2/2 actions on track
2.5% overall water reduction

Water and Wastewater Emissions



CHANGE¹

The Water Conservation Strategy was developed in 2022. It lays out the implementation plan to reduce water from the City and to encourage residents to save water.

Smart meters have been deployed in 85% of houses.



Land Use



A compact municipality has lower transportation emissions and energy demand as people have more opportunity to walk and cycle. Actions include increasing density of our neighbourhoods and increasing the share of multi-unit housing.

2/2 actions on track

University Sector Plan approved, and work began on the College Corridor Plan spring 2021.



Energy Generation



Switching from fossilfuel sourced energy to renewable and lowemissions energy is critical to meeting GHG reduction targets.

10/12 actions on track

3.8 MW of residential/ commercial solar

7.5 MW of blogas used for heating and power generation at the Waste Water Treatment Plant and Landfill Gas Facility

The Dundonald Solar Farm will be built in 2023 to provide electricity to Saskatoon.

Enough to power 330 homes!





Corporate Climate Adaptation Report Card

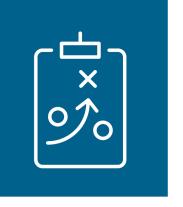
DECISION MAKING

Embedding climate risk into decisionmaking helps ensure the City is preparing for a changing climate.

Actions include building capacity in the City on using the Triple Bottom Line (TBL) tool in project development, improving data management and sharing, accessing funding, and building internal and external relationships.

5/7 Actions on track.

An Equity Toolkit, new TBL Improvement Tool, and website resource were created as how-to guides for City staff applying the TBL Policy.



SERVICES

The City provides many services like water, power, waste, transportation, recreation, and parks many of which are at risk as the climate changes. Delivering climate-ready, resilient services under changing climate conditions requires proactive planning and cross-departmental collaboration.

Actions include proactive preparation for emergencies as well as reviewing future service levels.

9/9 Actions on track.

A roadways emergency response plan was developed for extreme snow events.

A support process was developed for individuals living in unsafe outdoor conditions.



STAFF

Changing climate conditions impact outdoor staff, residents, the environment, and ecosystems in Saskatoon.

Actions include identifying climate impacts to staff and piloting initiatives to reduce those impacts.

7/7 Actions on track (not scheduled to start until 2022).

A full-time operating position was approved for 2023 to begin accelerating these and all of the corporate climate adaptation actions.



ASSETS

The cost of continuing to design and build using only historical or current climate information is likely to result in, at best, a faster deterioration rate and higher insurance premiums and, at worst, asset failure and destruction of lives, property, and the environment.

Actions in this category include incorporating climate risk and impacts into asset management plans, reviewing and updating corporate standards, and increasing integration of green infrastructure to improve resilience.

7/8 Actions on track.

1200 m³ of compost was used in city parks and sports fields.

Urban Forestry Management Plan was received by Council.







Reporting Timeline and Next Steps

Current

2022	2023	2024	2025
	(\$)		<u>;</u> (\$)



Climate Action Plan Progress Report



City Financial Budget Preparations



Climate Action Plan Refresh

Recommendation

	2022	2023	2024	2025	2026	2027	2028	2029	2030
		<u>I</u> (\$)		<u>I</u> (\$)		\$		<u>I</u> (\$)	
2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
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2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
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Thank you!

Progress Report available at: saskatoon.ca/climate

