

## Climate Change Implementation Plan Summary

**\*New actions are in bold.** Strategic plan/corporate plan/Council/partner directed actions are in regular text.

Climate Action (2022-2025)	Strategic/ Corporate Plan Alignment	Budget Implication
<p><u>Energy Efficiency and Supply:</u> Develop the Clean Energy Improvement Program, explore a City Strategy with green tech, and plan new renewable power for the City.</p> <p>Explore linkages to the Spruce Grove Library's "Empower Me" Pop Ups.</p> <p><b>Make it the norm when City facility assets need to be replaced that energy efficiency is one of the goals.</b></p>	<p>✓</p> <p>✓</p> <p>✓</p>	<p>CEIP: \$60,000 2022 plus possible MCCAC/FCM Grants TBD.</p> <p>Solar projects in Capital Plan [e.g., Protective Services (2024), Agrena (2026)]. Grant possibilities to be evaluated.</p> <p>Opportunity focussed, with possible support from the Asset Reserve Fund.</p>
<p>2) <u>Waste Reduction:</u> Educate on wasted food diversion, review small black bin fee reduction and distribute over 1000 backlogged kitchen compost bins.</p> <p><b>Review possible carbon reduction impacts of Alberta's new Extended Producer Responsibility regulation as part of the next 2025 Waste Audit.</b></p>	<p>✓</p>	<p>Fee reduction will be considered within waste contract outcomes; 120 L black bin fee reduction (~20 per cent discount from status quo) to be reviewed for funding by the utility.</p> <p>Waste education in existing budgets and consider donated opportunities within new waste contract. <i>TBD if business case required.</i></p>
<p>3) <u>Natural Assets:</u> Identify, enhance and protect natural infrastructure, focusing on future protection and restoration of Fenwyck Fen and Atim Creek areas as key priorities for carbon sinks and adaptation-related natural capital. Complete further natural asset analysis.</p>	<p>✓</p>	<p>Within E&amp;T existing budgets.</p>

<b>Explore increasing the climate resilient tree canopy.</b>	New	As per Council direction, PW has requested a 2023 Tree Planting Budget Adjustment of \$40,000 for its planned 2:1 policy of planting two trees for every lost tree (estimated 100 trees/annum increase).  Tree Grant opportunities to be explored.
4) <u>Resilience</u> : Develop adaptation measures to support social wellbeing, the less fortunate, recreation and stormwater infrastructure as highlighted in the Strategic Plan. Create an education program on climate change resilience.	✓	Municipal Climate Change Action Centre Grant approved @ \$78,200 for education program pilot in 2023.  Other adaptation measures part of existing budgets (e.g., proposed Stormwater Management Plan considers climate change implications).  Note: EMRB review of regional adaptation measures underway in 2023.
5) <u>Low Carbon Transportation</u> : Expand transit, active transportation corridors and consider low carbon options; the two inter-municipal trails from Spruce Grove to Stony Plain are the immediate priority. <b>Reduce idling through signage</b> and adaptive traffic signals.  Develop an EV Strategy with municipal/community charging infrastructure and fleet, including a jumpstart installment of 17 stations (12 public) plus an EV Zamboni and three fleet vehicles.  <b>Promote connections to regional hydrogen development and distribution systems through Edmonton Global.</b>	✓	Within existing budgets/Transportation Master Plan.  Transit: 2025 Business Cases to be proposed for expanding service to weekends and provide a low-income pass TBD.  Idling: Traffic signal business case \$10-\$20,000 included in Corporate Plan 2023.  Educational signage to be reviewed through E&T existing budgets in 2024.  EV Chargers: \$30,000/ \$200,000 Grant in 2022 with carry-forward for installation challenges. In 2023, EV Strategy: \$25,000 within existing budgets. Small grants for Zamboni and fleet vehicles approved.
6) <u>Local Agriculture</u> : Support locally produced agriculture programs like community gardens, edible trees and	✓	Within existing budgets. LUP \$30,000 in 2022

farmer's markets to provide food options and <b>pollinator gardens</b> .		Grants to be evaluated. Edible Trees and pollinator gardens planned in late stages of Re-imagine Central Park.
7) <u>Information management</u> : Support <b>equipment, information and data management</b> for GHGs, weather and air quality.	New	Air quality monitoring equipment in existing E&T budgets for Q4 2023.  Future business case for carbon budget updates and GHG measurement should be reviewed at \$15,000.
8) <u>Land use</u> : Continue to work through land use planning and zoning to support increased development density where possible, such as the City Centre Area Redevelopment Plan.	Opportunity focussed.	Existing budgets.
9) <u>Capacity Building</u> : Explore increased capacity by building <b>staff competencies, citizen engagement like the Youth Advisory Committee, partnerships, grant opportunities and a Reserve Fund</b> for future projects.	New	Staff competency building within existing training budgets where appropriate.  Environment and Climate Change Specialist (\$50,000 2022 Temp).  Engagements with Youth Advisory Committee in 2023 within existing E&T budgets.  Create a partnership and advocacy workplan for working with businesses, academic institutions, and other levels of government and regionally.  The existing Asset Reserve Fund may be used for GHG reduction and resilience enhancements for facilities, renewables and fleet and ramp up to possible Climate Reserve Fund (with broader scope of projects) in the future.