



Environmental
Law Centre

Climate Mitigation and Resilience in Edmonton's Land Use Bylaw

Urban Planning Committee

June 20, 2023

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Environmental Law Centre

- Operating in Alberta since 1982
(Charity and non-profit)
- Legal information and law reform
in furtherance of a sustainable and
healthy environment for current
and future Albertans
- Climate mitigation in Edmonton's
Land Use Bylaw

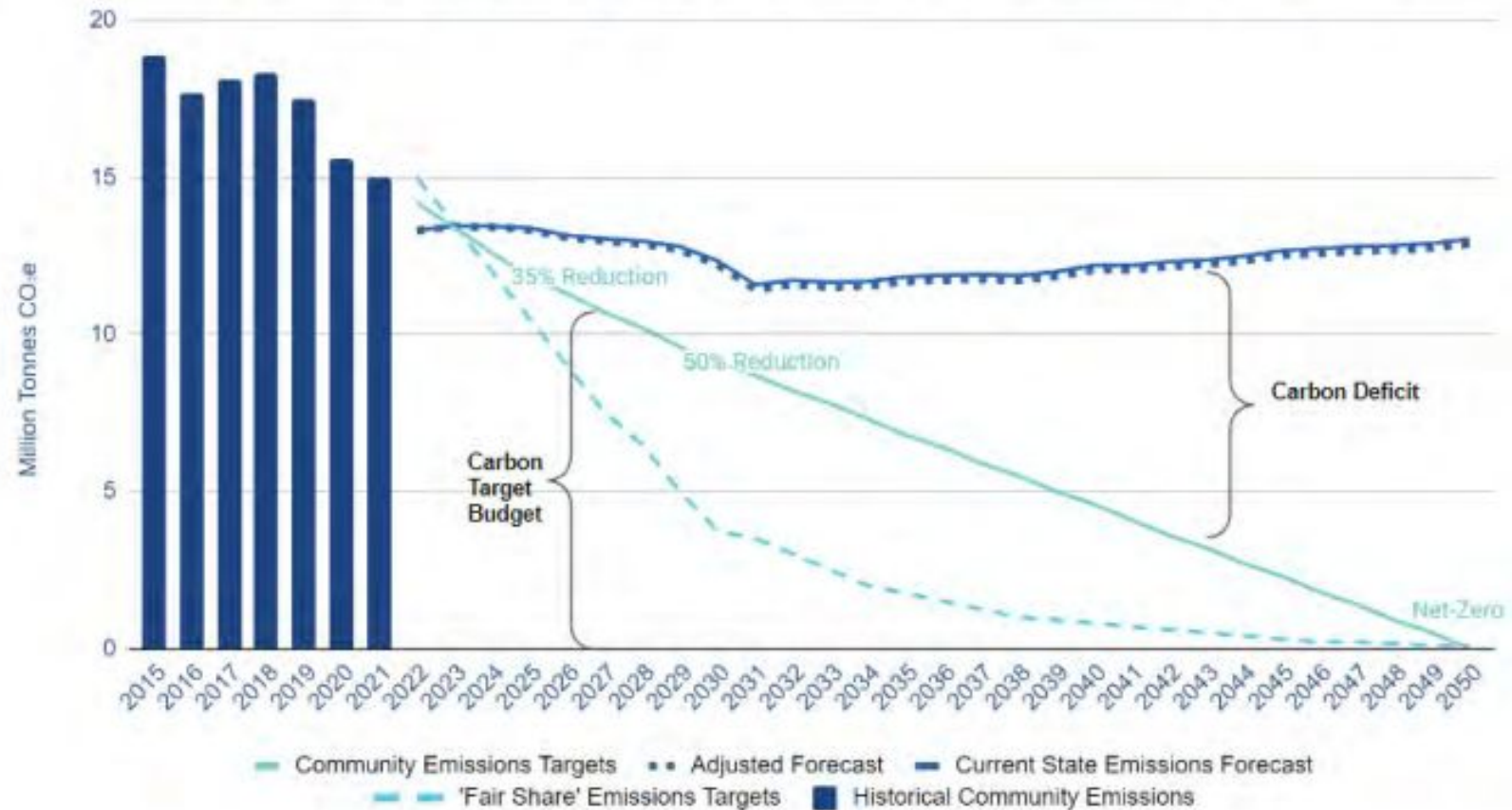


Table 1: Corporate and Community-Wide Accelerated Energy Transition Journey

Target
Reducing net GHG emissions (compared to 2005 levels)
Reducing net GHG emissions (compared to 2005 levels)
Emissions neutral

Figure 1: Community Carbon Budget 2023-2026

Community Carbon Budgeting 2023-2026 (based on approved budgets)



City of Edmonton, Carbon Budget 2023-2026, December 2022

Table 5: Community Carbon Target and Deficit

<i>Annual tonnes CO₂e</i>	2025	2030	2050
Current State Emissions Forecast (A)	13,380,000	12,340,000	13,030,000
2023-2026 Approved Budget Requests GHG Impacts (B)* (Brackets indicate GHG Reductions)	(50,000)	(120,000)	(150,000)
Adjusted Forecast (C) = (A + B)	13,330,000	12,220,000	12,880,000
Community Emissions Target (D)	11,800,000	9,100,000	0
Carbon Deficit (C - D)	1,530,000	3,120,000	12,880,000

**Values presented in the table for GHG impacts of approved budget requests for 2050 are based on extrapolations and are subject to change.*

Bending the curve

Opportunities to further integrate climate mitigation in the LUB

1. EV readiness
2. Solar ready buildings & solar mandate
3. Permitting and aggregate development emissions profiles
 - Prerequisite - methodology and “calculator”
 - Move away from building specific standards and to a development level approach
 - Inherently incorporates efficiency, generation, district energy, siting, other resilience systems.

Integration into the LUB

- Land Use Planning and Development = Climate Action (good and bad)
- Strong signals are needed
 - Delay and cost consequences
 - We know what we need, the question is if and when we will do it.
- Enabling and incentivizing
 - Is it enough?

Attachment 8 –Environment and Climate Review

- Opportunities to align work planning around the LUB
- Significant Gaps are opportunities
 - Energy generation
 - Electrification of transport
 - Managing overall community emissions (captured partial in “future opportunities” in green development standards)
- Reducing barriers to adoption is valuable but more is needed
- Climate change planning and development framework
 - Guidance or bylaw?
 - What are the barriers to adoption, if any? (technical, financial, practical) How are identified barriers removed or surmounted?
 - How can it be timely embedded in developments?

Questions?

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