

UPDATE TO POLICY C598

Infrastructure Asset Management Policy

Recommendation

That Executive Committee recommend to City Council:

That the draft Council Policy C598A, Asset Management, as set out in Attachment 1 of the October 30, 2024, Integrated Infrastructure Services report IIS02683, be approved.

Requested Action	For Decision		
ConnectEdmonton's Guiding Principle	ConnectEdmonton Strategic Goals		
CONNECTED This unifies our work to achieve our strategic goals.	N/A		
City Plan Values	PRESERVE		
City Plan Big City Move(s)	A rebuildable city	Relationship to Council's Strategic Priorities	Conditions for service success
Corporate Business Plan	Managing the Corporation		
Council Policy, Program or Project Relationships	<ul style="list-style-type: none"> C598 Infrastructure Asset Management Policy 		
Related Council Discussions	<ul style="list-style-type: none"> April 18, 2017, Integrated Infrastructure Services, CR_4270, Capital Infrastructure Management Framework October 17, 2022, Integrated Infrastructure Services, IIS01349, Rationalizing And Rightsizing Municipal Assets (Private) September 22, 2023, Office of the City Auditor, OCA02046, Capital Asset Management Audit September 22, 2023, Integrated Infrastructure Services, IIS02011, Administrative Response to Capital Asset Management Audit October 13, 2023, Integrated Infrastructure Services, IIS01767, Asset Rationalization Framework and Pilot (Private) 		

UPDATE TO POLICY C598 - INFRASTRUCTURE ASSET MANAGEMENT POLICY

Executive Summary

- Council Policy C598—Infrastructure Asset Management Policy, approved in 2018, is updated to reflect revised processes and procedures and the current organizational context.
- This update follows the Corporate Policy Framework, which outlines standards for policy updates to set out strategic or high-level direction from Council.
- Attached to the revised policy is an update to the corresponding Asset Management Administrative Procedure with the addition of a Strategic Asset Management Plan.
- Key changes to the policy include expanding it to include all assets, better incorporation of the policy and procedures to reflect current asset management best practices, and the addition of the asset rationalization framework.

REPORT

To support the services provided to Edmontonians, the City of Edmonton manages an inventory of assets with a replacement value of approximately \$34.7 billion. Edmonton manages its assets through effective asset management practices, integrated and coordinated systems and activities (renewal, operations and maintenance) needed to receive value from them.

In 2018, City Council approved Infrastructure Asset Management Policy C598¹, which provides guiding principles for the application of asset management practices and procedures throughout the corporation. As part of the Corporate Policy Framework,² policies are to be reviewed for relevance and effectiveness every four years. This is the first update of the policy, which will be reviewed once every four years going forward.

Current Policy

The purpose of Infrastructure Asset Management Policy C598 is to provide clear direction for asset management through key principles, guidance on asset management plans, and alignment of organizational vision, goals and objectives with asset management activities.

The current policy includes definitions and the following asset management principles:

1. Service Delivery to Stakeholders
2. Long-Term Sustainability and Resiliency
3. An Integrated, Holistic Approach
4. Investment Decision-Making
5. Innovation and Continuous Improvement

This policy complements the City's 2018 Infrastructure Strategy, which was intended as a strategic asset management plan.

Overview of Policy Updates

The proposed update to Asset Management Policy C598 (Attachment 1) maintains the original policy's intent while expanding its scope and streamlining its content.

¹ [C598 Infrastructure Asset Management Policy](#)

² [Corporate Policy Framework](#)

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The updated policy continues to guide asset management practices through fundamental principles. The principles have been revised from the original five to the following:

1. Service Focused
2. Sustainably Oriented
3. Whole Lifecycle Decision Making
4. Integrated

In addition to the updated policy, a new Asset Management Procedure and a Strategic Infrastructure Asset Management Plan (SAMP) have been created as supporting documents. These procedures document Administration's commitment to how the policy will be activated and provide flexibility to add procedures for various assets as they are developed. The Asset Management Procedure and Strategic Infrastructure Asset Management Plan (SAMP) guide the corporation in applying Asset Management Policy C598 and asset management best practices to infrastructure assets.

The SAMP provides the framework under which asset specific management plans are developed. It also provides guidance for managing assets where a detailed asset management plan is not required or has yet to be developed. The key components of the SAMP procedure include an overview of levels of service, organizational context, lifecycle management activities, current state of assets, trends, financial summary, risk management, performance measures and continuous improvement.

Community Insight

This report is a response to an internal audit and Administration has not conducted community engagement specific to this report topic.

Assets are essential to delivering services to Edmontonians. To effectively deliver safe, reliable, and sustainable services, the assets supporting these services must be effectively managed to ensure they are in good repair and safe for staff and Edmontonians. Asset Management, including lifecycle management and asset maintenance services, is a core function of the City.

Once infrastructure assets are assessed and Administration determines the investment is required, public engagement is undertaken on a project by project basis using a variety of mediums to ensure that all stakeholders who want to contribute or provide input have an opportunity to do so.

Within the asset management industry, there are many formal and informal engagement opportunities that Administration engages in to ensure relationships and networks are maintained. These opportunities include a wide network to share industry lessons learned, learning opportunities regarding new technologies, and opportunities to engage in asset management research.

GBA+

The City of Edmonton owns a variety of infrastructure assets which support the delivery of services. These assets require responsible acquisition, operation, maintenance, rehabilitation, and eventual replacement and/or disposal. The City's Infrastructure Asset Management Policy is a

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critical element of the City's overall framework for asset management. Ensuring the assets Edmonton manages on behalf of its residents are in sound condition is fundamental to providing services to all users regardless of ability. The updated policy and associated Strategic Asset Management Plan are intended to establish and set strategic direction and guidance, incorporating City Policies, in support of effective and efficient management of municipal infrastructure for all. The following is a non-inclusive list of some aspects that an asset management plan takes into consideration.

- **Accessibility:** ensure accessibility requirements for people with disabilities in the surrounding areas are in place; accessibility is considered at each stage of the project design.
- **Safety:** Incorporate the needs of diverse demographics to improve safety within existing and new facilities.
- **Usability:** Consider how asset renewal and new assets improve the useability for those working in and for others who use municipal assets for business or other purposes.

Though a comprehensive GBA+ was not undertaken for this strategy, a full analysis is applied on an individual project basis as the need for renewal of specific assets arises, allowing for future contributions to the equality outcomes.

Environment and Climate Review

The impacts of climate change are becoming increasingly severe and widespread each year. The 2024 World Economic Forum Report³ highlights that, although environmental changes may not be as immediately apparent as other short-term risks, their long-term impact across various systems is substantial. Consequently, it predicts that all four of the top global risks within the next decade will be related to environmental and climate issues.

Climate modelling for Edmonton has identified future challenges such as rising temperatures, changing precipitation patterns, and an increasing frequency and severity of storm events. These factors will place greater pressure on transportation systems, buildings, and natural assets. In response to these challenges, Council Policy C627 Climate Resilience and the City's two climate strategies, the Energy Transition Strategy and the Climate Adaptation Strategy, provide a commitment and identify actions to reduce greenhouse gas emissions and to adapt to climate change risks and impacts. The integration of climate considerations within asset management practices aligns with actions identified in these strategies.

The updated policy and the SAMP reflect the importance of environmental protection and climate resilience. In addition, asset management plans are increasingly incorporating environmental and climate risk assessments, including the use of PIEVC (Public Infrastructure Engineering Vulnerability Committee) to evaluate infrastructure vulnerabilities.

Performance measures and continuous improvement are incorporated within the SAMP framework, and Administration has identified several actions to enhance the integration of environmental and climate considerations within asset decision-making processes. By proactively

³ World Economic Forum, The Global Risks Report 2024, January 2024 <https://www.weforum.org/publications/global-risks-report-2024/>

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addressing these issues, Edmonton aims to build a resilient urban environment that can adapt to the challenges posed by a changing climate.

Attachments

1. Draft Council Policy C598A - Asset Management
2. Procedure - Asset Management C598A
3. Strategic Infrastructure Asset Management Plan: 2024-2028