

CAPITAL PROJECT CHARTER

YEAR:	2020
CHARTER NUMBER:	
CHARTER NAME:	Pilot Scale Waste to Energy
LEAD DEPARTMENT:	Utilities and Environment

TYPE:	Choose one: <input type="radio"/> RMR <input checked="" type="radio"/> GROWTH
	A waste to energy pilot scale plant would provide information, direction and insight into opportunities, challenges and partnership in managing the solid waste generated within the City and optimizing it as a commodity.
ASSET CATEGORY:	<div>Choose one:</div> <div> <input type="radio"/> Civic Facilities <input type="radio"/> Master Plan, Studies, & Other <input checked="" type="radio"/> Roads & Other Engineered Structures <input type="radio"/> Historical/ Cultural </div> <div> <input type="radio"/> Parks & Trails <input type="radio"/> Mobile & Other Equipment <input type="radio"/> Land & Land Improvements </div>
SCOPE STATEMENT:	The project includes the acquisition of a pilot scale waste to energy technology, site grading, engineering, building to house the technology.

PROJECT CHARTER JUSTIFICATION:	<p>Current State – Currently staff support the solid waste collection throughout the City and with changes in the items that can be incorporated into the recycling program there is a higher component of waste that must be landfilled or managed. Much of this waste has a high energy potential when converted through thermal processes that can be harnessed.</p> <p>Issue – historically waste to energy technologies were large scale, requiring substantial population bases to support their implementation. Technologies have not changed, and they are more micro in size. This program would provide test data to justify these described changes that are noted in scientific literature and provide opportunities and any challenges that the long term sighting of these facilities could pose within a community.</p> <p>Opportunities – understanding and data are the biggest opportunities at this stage. It provides invaluable data in the determination as to how the City would plan for the long-term management of municipal solid waste</p> <p>Risks – The largest risk would be that the collected data throughout the pilot does indicates that the long term implementation of a waste to energy program is not viable within the City of St. Albert Framework. Although this risks is substantially lower than investment in a full scale system that can service a larger area.</p>
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STRATEGIC PLAN & CORPORATE BUSINESS PLAN ALIGNMENT:	<p>Council Priority: 4. Infrastructure Investment</p> <p>Activity: 6.1 Explore integrated green utilities to reduce carbon footprint, reduce servicing costs</p> <p>Administrative Priority: A.4. Business Process Improvements / Financial Sustainability</p> <p>Activity: N / A</p>
STAKEHOLDER IDENTIFICATION:	n/a
TIMELINE:	Depending on award timelines, the project would likely see mobilization onsite in spring to commission a system during the temperate months.

APPROVAL

Author:	Kate Polkovsky	November 2, 2019
	Project Charter Developer	Date
Director:	Kate Polkovsky	November 2, 2019
	Director	Date
DCAO/CPO:		
	Deputy Chief Administrative Officer/Chief People Officer	Date