

An aerial photograph of a large industrial facility with a white roof and blue walls, surrounded by green fields and parking lots. In the top left corner, there is a red square with the word "Calgary" in white, and next to it is the City of Calgary logo.

Calgary



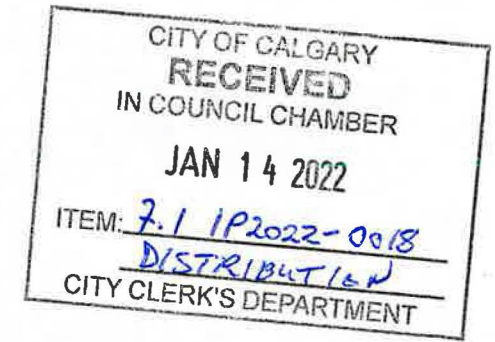
Calgary Composting Facility Capacity

Sarah Smith, Manager, Infrastructure and Program Management

Report #IP2022-0018

ISC: Unrestricted

Recommendations

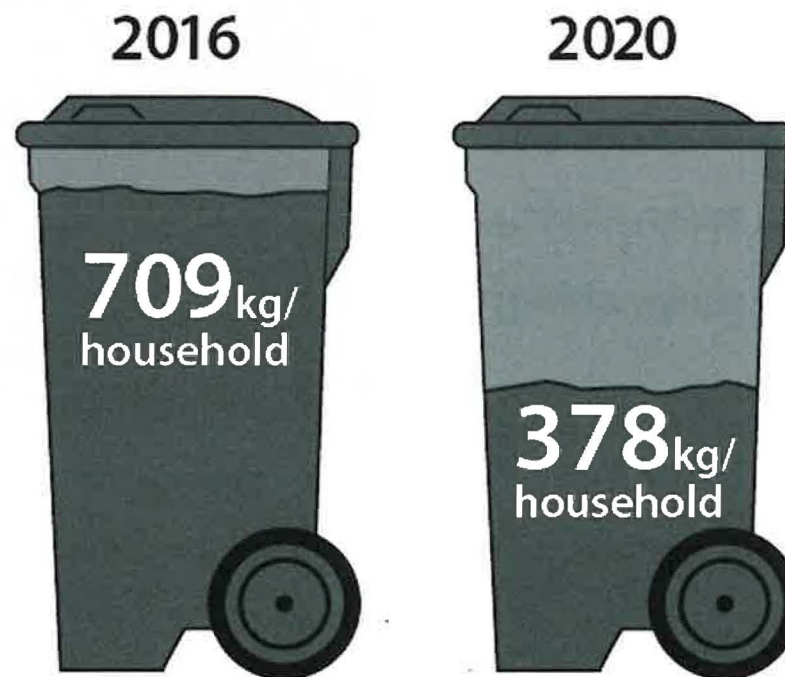


That the Standing Policy Committee on Infrastructure and Planning recommends that Council:

1. Direct Administration to negotiate and execute all amendments to the Composting Facility Project Agreement to expand the Calgary Composting Facility (the "Facility") to accommodate an additional 60,000 tonnes per year of Single-Family Residential food and yard waste (the "Project").
2. Direct Administration to develop a biogas offtake strategy for the Facility and negotiate and execute any definitive agreements required to implement that strategy.
3. Approve a capital budget appropriation of \$50 million to Program 258 – Facilities and Equipment funded from a combination of sources, including self-supported debt for the expansion of the Calgary Composting Facility.
4. Give first reading to Bylaw 11B2021, being a bylaw authorizing The City to incur indebtedness for financing the Project.

Why does Calgary compost?

- Enables Calgarians to waste less and conserve more
- Extends life of existing landfills
- Reduces greenhouse gas emissions
- Creates nutrient rich compost





Calgary Composting Facility



- Design / Build / Operate delivery model
- Public-Private Partnership (P3 Policy CFO011)
- 100,000 tonnes / year organics design capacity
 - Volumes higher than anticipated
 - Contingency capacity fully used
 - Additional shift, equipment operating longer
- 60,000 tonnes / year additional capacity required

Work Completed



Jurisdictional Review
lessons learned of others

Outsourcing vs Expansion
Suppliers' experience is critical
Odour issue management



Market Sounding
opportunities for outsourcing

Private sector Interest
Insufficient regional capacity



Technical Assessment
best value technologies

Proven technologies assessment
Value Management study



Business Case
best value option

Triple bottom line

Business Case - Options Evaluated



Expansion



Outsourcing

Assessment Criteria



Strategic



Economic



Financial



Deliverability & Operations



Expansion

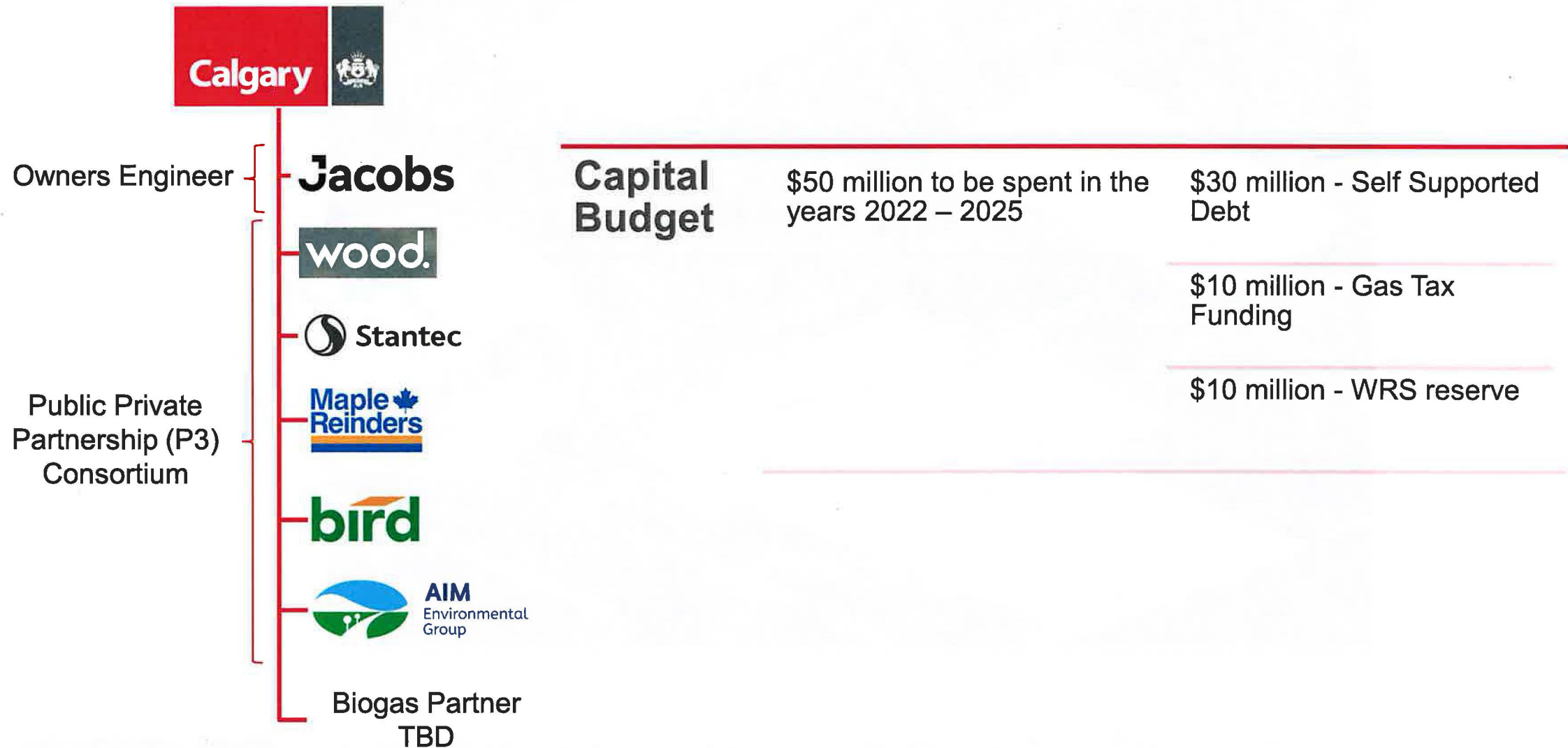
Best value to Calgarians

- Lowest Cost - Maximizes previous financial investments of existing compost facility
- Minimizes Risk – Service Delivery and Environmental compliance
- Environmental Benefits - Reduction in greenhouse gas emissions
- 0.2 tonnes CO₂e vs 0.9 tonnes CO₂e (Landfilling) per tonne organics

Expansion – Best Value to Calgarians



Expansion Project Delivery



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