

Climate Action Reserve Fund Draw For Corporate Building Energy & Emissions Savings

COMMITTEE OF THE WHOLE
MARCH 12, 2020



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Purpose

To seek Council's approval to implement priority greenhouse gas reductions and energy improvements in the City's facilities in 2020.



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Overview

Climate Leadership Plan (adopted July 2018)

- Reduce corporate emissions by 60% by 2030
- By 2040, all City facilities are powered 100% by renewable energy

Climate Action Reserve Fund (CARF)

- Funding to support climate mitigation and adaptation strategies
- The forecasted unallocated balance of the reserve in 2020 is \$295,000

Staff have identified a number of 'shelf ready' facility energy improvements for implementation in 2020

- 61 tonnes of GHG and \$87,000 saved annually



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Facility Energy Improvements

Phase 1 Improvements Already Underway

No/low cost improvements within existing 2020 budgeted resources

- LED lighting
- HVAC equipment optimization

Phase 2 2020 Improvements Ready and Awaiting \$135,000 in Funding

Additional low cost improvements:

- LED lighting
- Fuel switching gas heating to electric
- Fuel switching gas hot water heaters to electric



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Summary of Phase 2 Costs & Savings

Proposed Facility Energy / GHG Upgrades (2020)	Magnitude
Material Costs	\$129,000
Internal Labour Value	\$82,000
Project Contingencies (5%)	\$6,500
Total Project Costs	\$217,500
CARF Draw Requirement	\$135,500
Annual Energy Cost Savings	\$44,900
Annual GHG / Energy Savings	32 tCO ₂ e / 590,000 kWh



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Recommendation

That Council:

Direct staff to amend the 2020 Financial Plan by adding a \$135,500 budget for facility energy and emission upgrades funded by the Climate Action Reserve Fund.



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