

AGENDA ITEM NO: 7.3

MEETING DATE: November 7, 2023

STAFF REPORT – COVER SHEET

SUBJECT: Master Plan Energy Study DATE: October 30, 2023

DEPARTMENT: Engineering PREPARED BY: T. Friesen

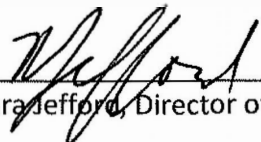
1. SUMMARY OF ISSUE:

Funding is available through FortisBC to conduct a Master Plan Portfolio Energy Study to reduce energy use and greenhouse gas emissions at City facilities. Prism Engineering has submitted a proposal to complete the Study.

A decision is required to accept the proposal from Prism Engineering for the Master Plan Portfolio Energy Study.


2. RECOMMENDATION:

Recommendation that Council accept the proposal for consulting services for the “Master Plan Portfolio Energy Study” from Prism Engineering in the amount of \$104,300.00 (plus applicable taxes); and further, that the Mayor and Corporate Officer be authorized to sign any necessary documentation.


Kara Jefford, Director of Engineering


3. FINANCE COMMENTS:

The FortisBC grant would cover 100% of the anticipated costs of the project.


Glen Savard, Director of Finance

4. CHIEF ADMINISTRATIVE OFFICER'S RECOMMENDATION/COMMENTS:

Supports recommendation.


Chris Crozman, CAO

STAFF REPORT ON
MASTER PLAN ENERGY STUDY

PREPARED BY:	<u>Thomas Fabian</u>	DATE:	<u>October 30, 2023</u>
POSITION:	<u>Environmental Services Specialist</u>	DEPARTMENT:	<u>Engineering</u>

1. DEFINITION OF ISSUE:

Funding is available through FortisBC to conduct a Master Plan Portfolio Energy Study to reduce energy use and greenhouse gas emissions at City facilities. Prism Engineering has submitted a proposal to complete the Study.

A decision is required to accept the proposal from Prism Engineering for the Master Plan Portfolio Energy Study.

2. BACKGROUND:

2.1 The City has been offered a funding agreement to conduct a Master Plan Portfolio Energy Study through FortisBC in the amount of \$104,300. Master Plan funding is for municipalities to outline a pathway to carbon neutrality through efficiency and Renewable Natural Gas (RNG) for a portfolio of buildings. The Study will help the City meet the Corporate Climate Action Plan goal of cutting 50% of emissions from 2010 levels by 2030, and becoming a carbon neutral organization by 2050.

2.2 Prism Engineering submitted a proposal to the City for consulting services for the Master Plan. The following nine buildings were identified as the largest natural gas users amongst City facilities, and will be included in the assessment:

- Cheam Centre
- Sardis Sports Complex
- Chilliwack Coliseum
- Chilliwack Landing Leisure Centre
- Operations Centre
- Wastewater Treatment Plant
- Chilliwack Cultural Centre
- Regional District/Fire Hall 1
- Heritage Park

2.3 The outcomes of this study will include building-level emissions reduction measure analysis and portfolio-wide greenhouse gas reduction planning, which the City can use to build toward achieving the Climate Action Plan goals. Measures that will be reviewed to improve energy efficiency and reduce greenhouse gases at the select facilities include:

- Optimization of Existing Systems
- Controls System Upgrades
- Heat Recovery
- High Efficiency Gas-Fired Equipment
- Hybrid and Full Electrification
- Building Envelope Improvements

- 2.4 Portfolio-wide measures to reduce emissions will also be reviewed, including implementation of renewable natural gas and renewable electricity generation.
- 2.5 This project will be led by Environmental Services in close collaboration with the Recreation and Culture Department, who will also be providing staff resources to support the initiative.
- 2.6 The Study will be funded entirely by FortisBC, who will provide 90% funding upfront and the remaining 10% upon completion. FortisBC has indicated a deadline of December 31, 2023 to have the consultant and funding agreements in place, and the initial 90% contribution made. The Study completion deadline is December 1, 2024.
- 2.7 Given FortisBC's timelines, staff are recommending the Study be sole-sourced to Prism Engineering. Several consulting firms were reviewed but it was noted by FortisBC that Prism had recently successfully completed a similar Study, which was to their standards.

3. RECOMMENDATION:

Recommendation:

Recommendation that Council accept the proposal for consulting services for the "Master Plan Portfolio Energy Study" from Prism Engineering in the amount of \$104,300.00 (plus applicable taxes); and further, that the Mayor and Corporate Officer be authorized to sign any necessary documentation.