

**REPORT OF THE DIRECTOR OF PUBLIC WORKS FOR THE CONSIDERATION OF
COUNCIL REGARDING THE SUPPLY AND INSTALL OF A BACKUP DIESEL
GENERATOR AT CITY HALL**

OBJECTIVE

To provide Mayor and Council with information with regard to the supply and install of a backup diesel generator at City Hall.

RECOMMENDATION

THAT the report dated June 28th 2021 by the Director of Public Works be received;

AND THAT Council approve the purchase of a 1000 amp diesel backup generator and transfer switch (option 3) to be installed at City Hall

AND THAT the additional cost of **\$50,000** plus applicable taxes be budgeted to the Facility reserve account

Respectfully Submitted

Approved by



Daryl Halloch
Director of Public Works

Daniel Gagnon
Chief Administrative Officer

BACKGROUND

The original request was from the I.T. Department and the Emergency Management Committee to look at the feasibility to install an emergency power supply that would have the ability to keep the servers operating and allow the Municipal building to be operational in both an emergency situation and a control center. The pricing and quotes were submitted for budget and they were approved to proceed with the project.

The purpose of this new initiative is therefore to explore the possible expansion of the opportunities for stand-by generator interconnection to all the emergency services (Fire Department, OPP, City Hall and Paramedic) within the scope of work.

ANALYSIS

The reason for this initiative was through a concern expressed by other facilities that the City of Elliot Lake maintains for emergency services. We were asked to provide emergency power to be able to include the A.D.S.A.B. building that houses the ambulance services as well there was an informal request by the O.P.P.to include them in as well. The fire department is also looking at having a stand-alone system.

At most the basic level, you should have backup power generator of some type (natural gas or diesel) that is large enough to power up your critical systems. As staff investigated the process of installing separate generators a decision was made to revisit the main power at city hall and determine a cost effective solution to provide emergency power to all emergency facilities. As described earlier one large 1000 amp generator and transfer switch would have the ability to feed the entire infrastructure. At the same time saving on preventative maintenance costs, as each backup generator is required an annual load test.

Option 1

To continue on with current 100 amp diesel generator and transfer switch city hall emergency generator was budgeted for **\$100,000**. This would have the ability to supply the fire hall but would require additional dollars to hook them up and have a communicating transfer switch as the fire services are fed with their own service.

Option 2

To upgrade to a 1000 amp diesel generator and transfer switch, that can supply backup power to all 4 city facilities (City Hall, OPP, Ambulance and Fire Hall) as well as materials required to connect each facility. This would require an additional cost of **\$150,000** above and beyond the approved **\$100,000** for the City Hall project.



Option 3

To supply and install a 1000 amp diesel backup generator and a 1000 amp rated transfer switch, the City would be looking at an additional cost of **\$50,000** plus applicable taxes. This would allow the city to provide power for the next phase of the project which would encompass the next three buildings at an estimated cost of **\$100,000** plus applicable taxes in the future. More specifically we are proposing to do this emergency generator through a phasing in process. This would be a 2 part process where the generator would be upsized to accommodate all of the buildings this year. From there City Hall would be tied in the first phase of power with the main automatic transfer switch installed. The cabling to the O.P.P. station would then be run and there would be disconnects installed to each of the buildings if required. This process would continue to the ambulance station. The final phase would be to the fire hall where this would require trenching to install.

FINANCIAL IMPACT

Council approved the purchase of a 100 amp backup diesel generator and transfer switch at a cost of **\$100,000** plus applicable taxes to supply backup power to City Hall, with the ability to connect to the Fire Department in the future. If Council was to approve option 2 – it would require an approved amount of **\$150,000** plus applicable taxes. If Council approves option 3, an additional amount of **\$50,000** plus applicable taxes would be required for this year, with a 2022 capital project of **\$100,000** plus applicable taxes required to complete the hookup to the additional 3 facilities.

LINKS TO STRATEGIC PLAN

The maintenance and rehabilitation of existing infrastructure provides assurances that a prescribed standard of care is being adhered to.

SUMMARY

The City of Elliot Lake owns and maintains the three additional buildings described in this report. The additional cost of upgrading the generator will allow these emergency services buildings to operate at full capacity during power losses. The Elliot Lake Fire Department is home to the I.T back up servers as well as the dispatch center for emergency services. For these reasons staff is recommending the purchase of a 1000 amp backup diesel generator and transfer switch for an addition cost of **\$50,000** plus applicable taxes

