

**CITY OF NORTH ST. PAUL
CITY COUNCIL
WORKSHOP AGENDA
DECEMBER 3, 2019
5:00 PM**

North St. Paul City Hall – Sandberg Room
2400 Margaret Street

I. CALL TO ORDER

II. ROLL CALL

Council Member Thorsen
Council Member Petersen
Council Member Walczak
Council Member Sonnek
Mayor Furlong

III. ADOPT AGENDA

IV. TOPIC(S)

- A. Street Light Payback for LED Lights
- B. 2020 Equipment Replacement
- C. Community Center Proposal

V. OTHER BUSINESS

VI. ADJOURNMENT

Agenda Information Memorandum
North Saint Paul City Council
December 3rd, 2019

FROM THE OFFICE OF THE ELECTRIC DEPARTMENT

Agenda placement: Council Workshop

Subject: Projected Payback Period of Street Lighting Upgrade to LED

To: Honorable Mayor and City Council

Background/Facts:

In 2013/2014 the electric department changed out the high pressure sodium light fixtures to LED fixtures on North Saint Paul streets as well as in our parks and parking lots. We changed out 592 light fixtures and retrofitted 136 fixtures to receive an LED bulb. On average it took two linemen about two hours, per fixture, to do the work. Below is the breakdown of the costs to change over to LED street lights:

100 watt high pressure sodium fixture to 53 watt LED fixture

Fixture and photocell	\$258.75
Labor w/benefits	\$209.00
<u>Equipment</u>	<u>\$160.00</u>
Total	\$627.75 X 395 fixtures = \$247,961.25

100 watt high pressure sodium bulb retrofitted to 45 watt bulb

Bulb and photocell	\$ 81.62
Labor w/benefits	\$209.00
<u>Equipment</u>	<u>\$160.00</u>
Total	\$450.62 X 117 bulbs = \$52,722.54

250 watt high pressure sodium fixture to 101 watt LED fixture

Fixture and photocell	\$369.75
Labor w/benefits	\$209.00
<u>Equipment</u>	<u>\$160.00</u>
Total	\$738.75 X 197 fixtures = \$145,533.75

400 watt high pressure sodium bulb retrofitted to 100 watt bulb

Bulb and photocell	\$157.16
Labor	\$209.00
<u>Equipment</u>	<u>\$160.00</u>
Total	\$525.16 X 19 bulbs = \$9,997.04

Grand total for LED street lighting upgrade \$442,698.98

The energy savings from the more efficient LED fixtures and bulbs is about \$42,703 a year. Dividing the total cost of the project (\$456,214.58) by the energy savings per year (\$42,703) gives us a **payback period of 10.7 years**.

Background Information on Street Light Fee

In 2003 the Electric Department worked with the city manager to recover some of the costs to maintain our street lights. It was determined to use the same fees that we charge customers who have security lights. Our current rates are:

LED equivalent to 100 watt street light- \$9.00/month
LED equivalent to 250 watt street light- \$13.75/month
LED equivalent to 400 watt street light- \$19.80/month

The electric department maintains:

493- 100W equivalent LED St. lights (493 X \$9/month= \$4,437 X 12 months= \$53,244)
216- 250W equivalent LED St. lights (216 X \$13.75/month= \$2,970 X 12 months= \$35,640)
19- 400W equivalent LED St. light (19 X 19.80/month= \$376.20 X 12 months= \$4,514.40)

Total Yearly Cost: \$93,398.40

This total yearly cost would be divided out to North Saint Paul Customers by billable service address. By doing it this way we wouldn't double charge customers who had more than one meter per address.

$\$93,398.40 / 5133 \text{ North Saint Paul customers} = \$18.20 / 12 \text{ months} = \$1.51 \text{ a month per customer}$. If we used today's fee's to establish a monthly charge to our customers for street lights it would be \$1.51.

Today's monthly fee to our customers is \$1.30.

Respectfully,

/s/ BF by mm

Brian Frandle
Director of Electric Utilities

APPROVED FOR AGENDA ENCLOSURE:

/s/ SD by mm

Scott Duddeck
City Manager

Agenda Information Memorandum
North St. Paul City Council
City Council Workshop
December 3, 2019

FROM THE OFFICE OF THE CITY MANAGER

Subject: 2020 Equipment Purchases

To: Honorable Mayor and City Council

Background/Facts:

Acquisition, Surplus and Repurposing of Equipment

City staff is requesting approval to purchase several new pieces of equipment in 2020.

Equipment Description	Estimated Cost	Funding Source
2020 Mack (Clam Truck) Forestry & Electric Dept.	\$250,000	50% Split Equipment & Electric Funds
2020 Toro Workman Utility Vehicle Parks Dept.	\$30,000	Equipment Fund
2020 Service Truck with Crane Water Dept	\$90,000	Equipment Fund
(2) 2020 Ford Police Interceptors Police Dept.	\$111,000	Equipment Fund
2020 Walk Behind Trencher Electric Dept.	\$17,000	Electric Fund
2020 Bucket Truck Electric Dept.	\$295,000	Electric Fund
2020 Service Truck with Crane. Electric Dept.	\$65,000	Electric Fund
Subtotal Equipment Fund	\$300,500	
Subtotal Electric Fund	\$502,000	
Total	\$802,500	

Surplus Equipment is as follows:

- 2012 Sterling LT 9500 (Clam Truck)
- 1999 Chevy Service Truck
- 2008 Ford Crown Victoria (Unmarked Squad)
- 2000 Ditch Witch Walk Behind Trencher
- 1997 Telelect Bucket Truck
- 2008 Chevy ¾ Ton Pickup Truck

Repurposed Equipment as follows:

2008 Chevy 3500 HD – To City Mechanic (Replaces the 1999 Chevy Service Truck)
2014 Ford Explorer Police Interceptor – To Police Chief (Replaces 2008 Ford Crown Victoria)
2014 Ford Explorer Police Interceptor – To Remain in service for Police Reserve / CSO usage

All surplus items will be sold via online auction or traded in.

All replacement units have reached the end of their serviceable life with the City.

In each category, staff has researched several units and brands and decided the best brand for overall usability, City needs, and resale value. All purchases are State bid pricing.

Recommendation: Support for placement on December 17, 2019 City Council Meeting.

Attachments:

2020 Equipment Replacement Details and Photos

Respectfully submitted,

/s/ Scott Duddeck by mm

APPROVED FOR AGENDA ENCLOSURE:

/s/ SD by mm

Scott Duddeck
City Manager

2020 Equipment Replacement Details and Images

Clam Truck – Forestry & Electric Dept. - This truck is used by both Public Works and the Electric Department for safe and efficient tree trimming. In 2001 the old ladder (fire) truck was repurposed into a grapple truck for use in the public works forestry department. In 2009 a used chassis was purchased and overlaid on the grapple truck system and box. Over the past few years there have been a significant amount of repairs beyond the normal scope of maintenance in order to keep this unit in service.

Toro Workman Utility Vehicle – Parks Dept. - The City will utilize the new unit for ball field maintenance, painting of athletic fields, and spraying weeds throughout the city. The old unit can be repurposed for the use of the NSPAA, high school, and other leagues to help maintain fields over the weekends.

Chevy 3500 HD – Water Dept. - The new unit will primarily be used in the utilities for various specialized jobs including pulling lift station pumps and lift station maintenance. The current unit has serviceable life left and will be repurposed in the mechanic department. The existing unit was due for replacement in the City's Capital Assets policy in 2018.

Ford Explorer Police Interceptor – Police Dept. – Units 2124 (89,054) and 2125 (81,035) have both been in service for 5 years and due to high city mileage and significant amount of idling time are due for replacement. Unit 2125 will replace unmarked unit 2106 which is a 2008 Crown Victoria with 205,330 miles. Both of the new units will be Hybrid which will reduce gasoline consumption and carbon emissions.

Walk Behind Trencher – Electric Dept. - This trencher is 20 years old and is the primary piece of equipment to install underground electric service to our residents.

Bucket Truck – Electric Dept. - This bucket truck is 22 years old and the maintenance cost are rising. Today's bucket trucks have more features on them to keep our linemen safe. This trucks serves an important role in maintaining our overhead distribution system.

Service Truck – Electric Dept. - Truck #713 is a 2008 ¾ ton pick-up truck that is showing its age. This truck also has a crane mounted on it that had been transferred from an old truck to this truck when it was replaced. The crane will be replace on the new truck which is used for setting small pad mount transformers. This truck will also be replaced with a 1 ton pick-up so it can be used for pulling our heavier trailers.

Clam Truck (1 of 3):



Clam Truck (2 of 3):



Clam Truck (3 of 3):



Toro Workman Utility Vehicle (1 of 1):



1999 Chevy Service Truck (1 of 3):



1999 Chevy Service Truck (2 of 3):



1999 Chevy Service Truck (3 of 3):



2008 Ford Crown Victoria (1 of 3):



2008 Ford Crown Victoria (2 of 3):



2008 Ford Crown Victoria (3of 3):



2014 Ford Explorer Police Interceptor – unit #2124 (1 of 3):



2014 Ford Explorer Police Interceptor – unit #2124 (2 of 3):



2014 Ford Explorer Police Interceptor – unit #2124 (3 of 3):



2014 Ford Explorer Police Interceptor – unit #2125 (1 of 3):



2014 Ford Explorer Police Interceptor – unit #2125 (2 of 3):



2014 Ford Explorer Police Interceptor – unit #2125 (3 of 3):



Ditch Witch Walk Behind Trencher (1 of 1)



1997 Telelect Bucket Truck (1 of 1)



2008 Chevy ¾ Ton Pickup Truck (1 of 1)

