

AGENDA
PUBLIC UTILITIES COMMISSION
May 9, 2018
3:00 P.M.

- A. Call to Order

- B. Roll Call

- C. Approve Consent Agenda
 - 1. Approve Agenda
 - 2. Approve Meeting Minutes
 - 3. Payments Report

- D. AMI Pilot Project Quote

- E. Public Works Building Solar Update

- F. Arrowhead Electric Cooperative Collaborative Opportunities Conversation

- G. Attached Correspondence:
 - 1. Keith Butcher, SMMPA Monthly Update

- H. Adjourn

*Public Utilities Commission
Minutes
April 4, 2018*

Meeting was called to order by Chair Karl Hansen at 3:00 p.m.

Members present: Karl Hansen, George Wilkes, and Tim Kennedy

Staff Present: Haden Hinchman

Others Present: Keith Butcher, SMMPA Energy Services Representative

Motion by Kennedy, seconded by Wilkes to approve the Consent Agenda. Approved unanimously.

Discussion was held about the Commission's MMUA scholarship.

Motion by Kennedy, seconded by Wilkes to award 1st place prize of \$500 to Harvey Parker. Approved Unanimously.

Discussion was held about upcoming AMI pilot project. Commission interested in more details and financials to be shared in the May meeting.

Keith Butcher updated the Commission about his activities in the Grand Marais area, including the Hospital expansion energy rebate totaling at 57k. The Commission asked Keith about his thoughts on the Dark Sky's initiative. The Commission expressed interest in Dark Sky certified street lights.

The Commission discussed the re-drafted letter to SMMPA to be included with the SMMPA board packet. Wilkes plans on presenting the Commissions stance at the upcoming SMMPA Board Meeting.

There being no further business, the meeting adjourned at 4:01 p.m.



CITY OF GRAND MARAIS

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Payments

City of Grand Marais

Current Period: April 2018

Batch Name	4-26-18AP	User Dollar Amt	\$42,258.23
Payments		Computer Dollar Amt	\$42,258.23
			\$0.00 In Balance

Refer	72412	COMO OIL & PROPANE	-	
Cash Payment	E 602-49480-217	Heating Fuel		\$628.55
Invoice	164404	4/9/2018		
Transaction Date	4/20/2018	MAIN CHECKING G	10100	Total \$628.55

Refer	72413	QUILL CORPORATION	-	
Cash Payment	E 602-49490-200	Office Supplies (GENER		\$77.30
Invoice	5990445	3/30/2018		
Transaction Date	4/20/2018	MAIN CHECKING G	10100	Total \$77.30

Refer	72421	HAWKINS, INC.	-	
Cash Payment	E 601-49420-218	Operating Supplies- Che		\$303.70
Invoice	4256069	4/4/2018		
Transaction Date	4/20/2018	MAIN CHECKING G	10100	Total \$303.70

Refer	72423	T & R ELECTRIC	-	
Cash Payment	E 604-49570-317	Contracted Services		\$365.00
Invoice	79177	4/9/2018		
Transaction Date	4/20/2018	MAIN CHECKING G	10100	Total \$365.00

Fund Summary

	10100 MAIN CHECKING GMSB
101 GENERAL FUND	\$19,846.67
211 LIBRARY	\$2,361.55
601 WATER	\$303.70
602 SEWER	\$705.85
604 ELECTRIC	\$365.00
609 MUNICIPAL LIQUOR FUND	\$18,675.46
	\$42,258.23

Pre-Written Checks	\$0.00
Checks to be Generated by the Computer	\$1,374.55
Total	\$1,374.55



CITY OF GRAND MARAIS

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Payments

City of Grand Marais

Current Period: April 2018

Batch Name	4-13-18 APP	User Dollar Amt	\$98,256.40
	Payments	Computer Dollar Amt	\$98,256.40

\$0.00 In Balance

Refer	72377 MN DEPT OF REVENUE-EFTPS	Ck# 004226E 4/11/2018	
Cash Payment	G 601-20800 Taxes Due (State MN)		\$789.00
Invoice	0-137-601-728 3/31/2018		
Cash Payment	G 604-20800 Taxes Due (State MN)		\$11,453.00
Invoice	0-137-601-728 3/31/2018		
Transaction Date	4/11/2018	MAIN CHECKING G 10100	Total \$12,242.00

Refer	72383 GRAND MARAIS AUTO PARTS, INC		
Cash Payment	E 604-49570-220 Repair/Maint Supply (GE		\$261.60
Invoice	2088 3/22/2018		
Transaction Date	4/12/2018	MAIN CHECKING G 10100	Total \$261.60

Refer	72384 CENTURYLINK		
Cash Payment	E 601-49440-321 Telephone		\$54.87
Invoice	2183871788 4/1/2018		
Cash Payment	E 601-49440-321 Telephone		\$69.36
Invoice	218D241002 4/1/2018		
Cash Payment	E 601-49440-321 Telephone		\$69.36
Invoice	218D241001 4/1/2018		
Transaction Date	4/12/2018	MAIN CHECKING G 10100	Total \$193.59

Fund Summary

10100 MAIN CHECKING GMSB

101 GENERAL FUND	\$45,727.43
211 LIBRARY	\$40.00
601 WATER	\$982.59
604 ELECTRIC	\$11,714.60
609 MUNICIPAL LIQUOR FUND	\$39,791.78
	\$98,256.40

Pre-Written Checks	\$12,242.00
Checks to be Generated by the Computer	\$455.19
Total	\$12,697.19



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Payments

City of Grand Marais

Current Period: April 2018

Batch Name	4-12-18AP Payments	User Dollar Amt	\$234,846.07	Computer Dollar Amt	\$234,846.07		
						\$0.00	In Balance
Refer	72313 <i>HOLMEN, JIM</i>			Ck# 004219E	4/2/2018		
Cash Payment	E 604-49570-430 Miscellaneous (GENERA						\$140.42
Invoice	PUC CREDIT 4/2/2018						
Transaction Date	4/2/2018	MAIN CHECKING G	10100			Total	\$140.42
Refer	72314 <i>VISA</i>						
Cash Payment	E 602-49490-330 Transportation/School						\$1,268.37
Invoice	0224 4/2/2018						
Transaction Date	4/5/2018	MAIN CHECKING G	10100			Total	\$1,268.37
Refer	72318 <i>BUCK S HARDWARE HANK</i>						
Cash Payment	E 604-49570-220 Repair/Maint Supply (GE						\$22.36
Invoice	2088 3/31/2018						
Transaction Date	4/6/2018	MAIN CHECKING G	10100			Total	\$22.36
Refer	72319 <i>T & R ELECTRIC</i>						
Cash Payment	E 604-49570-222 Transformers						\$10.00
Invoice	79165 4/2/2018						
Transaction Date	4/6/2018	MAIN CHECKING G	10100			Total	\$10.00
Refer	72320 <i>COOK COUNTY HOME CENTER</i>						
Cash Payment	E 602-49480-210 Operating Supplies (GE						\$8.76
Invoice	250659 3/28/2018						
Transaction Date	4/6/2018	MAIN CHECKING G	10100			Total	\$8.76
Refer	72321 <i>GREG LYKINS</i>						
Cash Payment	E 602-49490-330 Transportation/School						\$341.37
Invoice	EXPENSES 3/27/2018						
Transaction Date	4/6/2018	MAIN CHECKING G	10100			Total	\$341.37
Refer	72330 <i>JOHNSON S FOODS</i>						
Cash Payment	E 604-49590-200 Office Supplies (GENER						\$30.62
Invoice	44003871848 3/31/2018						
Transaction Date	4/6/2018	MAIN CHECKING G	10100			Total	\$30.62
Refer	72331 <i>MINNESOTA MUNICIPAL UTILITIES</i>						
Cash Payment	E 604-49570-317 Contracted Services						\$450.00
Invoice	51035 4/4/2018						
Transaction Date	4/6/2018	MAIN CHECKING G	10100			Total	\$450.00
Refer	72332 <i>MINNESOTA POLLUTION CONTRO</i>						
Cash Payment	E 604-49551-439 Licenses						\$253.68
Invoice	10000054357 3/26/2018						
Transaction Date	4/6/2018	MAIN CHECKING G	10100			Total	\$253.68
Refer	72333 <i>AMERICAN WATER WORKS ASSN</i>						
Cash Payment	E 601-49440-330 Transportation/School						\$150.00
Invoice	200003212 4/4/2018						
Transaction Date	4/6/2018	MAIN CHECKING G	10100			Total	\$150.00
Refer	72334 <i>ARROWHEAD COOPERATIVE</i>			Ck# 004220E	4/6/2018		



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Payments

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Current Period: April 2018

Cash Payment	E 602-49490-321 Telephone				\$129.67
Invoice	2121	4/1/2018			
Cash Payment	E 604-49590-321 Telephone				\$110.89
Invoice	2244	4/1/2018			
Transaction Date	4/6/2018	MAIN CHECKING G	10100	Total	\$240.56
Refer	72335 MDH				
Cash Payment	E 601-49440-439 Licenses				\$23.00
Invoice	RENEWAL	4/6/2018			
Transaction Date	4/6/2018	MAIN CHECKING G	10100	Total	\$23.00
Refer	72336 FERGUSON WATERWORKS				
Cash Payment	E 601-49430-382 Fire Hydrant Utilities				\$1,217.10
Invoice	275293	3/26/2018			
Transaction Date	4/6/2018	MAIN CHECKING G	10100	Total	\$1,217.10
Refer	72338 NORTH SHORE WASTE				
Cash Payment	E 602-49480-384 Refuse/Garbage Dispos				\$92.43
Invoice	61610	3/31/2018			
Transaction Date	4/6/2018	MAIN CHECKING G	10100	Total	\$92.43
Refer	72339 PACE ANALYTICAL SERVICES				
Cash Payment	E 602-49480-300 Professional Srvs (GEN				\$88.62
Invoice	181292039	3/29/2018			
Cash Payment	E 602-49480-300 Professional Srvs (GEN				\$88.62
Invoice	181291837	3/22/2018			
Cash Payment	E 602-49480-300 Professional Srvs (GEN				\$34.20
Invoice	181291838	3/22/2018			
Transaction Date	4/6/2018	MAIN CHECKING G	10100	Total	\$211.44
Refer	72340 HACH COMPANY				
Cash Payment	E 601-49440-210 Operating Supplies (GE				\$378.03
Invoice	10891107	3/23/2018			
Cash Payment	E 601-49440-210 Operating Supplies (GE				\$220.14
Invoice	10893146	3/26/2018			
Transaction Date	4/6/2018	MAIN CHECKING G	10100	Total	\$598.17
Refer	72346 SOUTHERN MN MUNICIPAL POWE				
Cash Payment	E 604-49560-388 Purchase Power				\$154,947.07
Invoice	Monthly Power	4/9/2018			
Transaction Date	4/9/2018	MAIN CHECKING G	10100	Total	\$154,947.07
Refer	72347 GRAND MARAIS AUTO PARTS, INC				
Cash Payment	E 604-49570-220 Repair/Maint Supply (GE				\$149.95
Invoice	730516	3/12/2018			
Transaction Date	4/9/2018	MAIN CHECKING G	10100	Total	\$149.95
Refer	72348 LAWSON PRODUCTS				
Cash Payment	E 604-49570-220 Repair/Maint Supply (GE				\$139.35
Invoice	9305684914	3/21/2018			
Transaction Date	4/9/2018	MAIN CHECKING G	10100	Total	\$139.35
Refer	72349 LHB ENGINEERS & ARCHITECTS				
Cash Payment	E 602-49431-303 Engineering Fees				\$2,214.00
Invoice	160861.00-7	3/14/2018			



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Payments

City of Grand Marais

Current Period: April 2018

Cash Payment	E 601-49431-303 Engineering Fees				\$553.50
Invoice	160861.00-7	3/14/2018			
Transaction Date	4/9/2018	MAIN CHECKING G	10100	Total	\$2,767.50
Refer	72351	US BANK			
Cash Payment	E 601-47027-611 Bond Interest				\$837.67
Invoice	Loan Pay 124	3/23/2018			
Cash Payment	E 601-47027-620 Fiscal Agent s Fees				\$213.04
Invoice	Loan Pay 124	3/23/2018			
Transaction Date	4/9/2018	MAIN CHECKING G	10100	Total	\$1,050.71
Refer	72352	BRONIKOWSKI, MATT			
Cash Payment	E 604-49570-241 Safety Equipment				\$99.24
Invoice					
Transaction Date	4/9/2018	MAIN CHECKING G	10100	Total	\$99.24
Refer	72355	MINNESOTA POLLUTION CONTRO			
Cash Payment	E 602-49490-230 State Fees				\$1,450.00
Invoice	10000052416	3/21/2018			
Transaction Date	4/9/2018	MAIN CHECKING G	10100	Total	\$1,450.00
Refer	72356	FERGUSON WATERWORKS			
Cash Payment	E 601-49430-220 Repair/Maint Supply (GE				\$369.77
Invoice	275063	3/14/2018			
Transaction Date	4/9/2018	MAIN CHECKING G	10100	Total	\$369.77
Refer	72360	GRAND MARAIS AUTO PARTS, INC			
Cash Payment	E 604-49570-220 Repair/Maint Supply (GE				\$48.39
Invoice	Bobcat/Backhoe	3/13/2018			
Cash Payment	E 602-49451-220 Repair/Maint Supply (GE				\$13.82
Invoice	Bobcat/Backhoe	3/13/2018			
Cash Payment	E 601-49430-220 Repair/Maint Supply (GE				\$13.83
Invoice	Bobcat/Backhoe	3/13/2018			
Transaction Date	4/9/2018	MAIN CHECKING G	10100	Total	\$76.04
Refer	72362	C EMERY NELSON, INC			
Cash Payment	E 602-49480-404 Repairs/Maint Machinery				\$2,017.50
Invoice	31990	4/2/2018			
Transaction Date	4/9/2018	MAIN CHECKING G	10100	Total	\$2,017.50
Refer	72369	PUBLIC UTILITIES COMMISSION1	Ck# 004221E 4/9/2018		
Cash Payment	E 602-49451-380 Utility Services (GENER				\$789.74
Invoice	APRIL BILLS	4/1/2018			
Cash Payment	E 602-49480-380 Utility Services (GENER				\$2,851.12
Invoice	APRIL BILLS	4/1/2018			
Cash Payment	E 601-49420-380 Utility Services (GENER				\$2,142.89
Invoice	APRIL BILLS	4/1/2018			
Cash Payment	E 604-49551-380 Utility Services (GENER				\$32.56
Invoice	APRIL BILLS	4/1/2018			
Transaction Date	4/9/2018	MAIN CHECKING G	10100	Total	\$5,816.31



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Payments

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Current Period: April 2018

Fund Summary

	10100 MAIN CHECKING GMSB	
101 GENERAL FUND		\$33,499.55
211 LIBRARY		\$2,638.01
215 LIBRARY RESTRICTED FUND		\$265.00
601 WATER		\$6,118.97
602 SEWER		\$11,388.22
604 ELECTRIC		\$156,434.53
609 MUNICIPAL LIQUOR FUND		\$24,501.79
		<hr/>
		\$234,846.07

Pre-Written Checks	\$6,197.29
Checks to be Generated by the Computer	\$167,744.43
Total	<hr/>
	\$173,941.72



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Payments

City of Grand Marais

Current Period: May 2018

Batch Name	05/10/18 AP Payments	User Dollar Amt	\$130,648.10	Computer Dollar Amt	\$130,648.10		
					\$0.00	In Balance	
Refer	72470 DSC COMMUNICATIONS						
Cash Payment	E 604-49570-580 Capital Outlay (Equipme					\$11,846.82	
Invoice	2180997 4/27/2018						
Cash Payment	E 601-49440-580 Capital Outlay (Equipme					\$2,647.42	
Invoice	2180997 4/27/2018						
Transaction Date	5/2/2018	MAIN CHECKING G	10100	Total		\$14,494.24	
Refer	72472 GRAND MARAIS AUTO PARTS, INC						
Cash Payment	E 604-49570-220 Repair/Maint Supply (GE Acct 2088					\$30.50	
Invoice	732244 4/17/2018						
Transaction Date	5/2/2018	MAIN CHECKING G	10100	Total		\$30.50	
Refer	72477 ROTH, MIKE						
Cash Payment	E 604-49590-330 Transportation/School					\$250.80	
Invoice	SMMPA/MNDOT 5/1/2018						
Transaction Date	5/2/2018	MAIN CHECKING G	10100	Total		\$250.80	
Refer	72482 METERING & TECHNOLOGY SOLU						
Cash Payment	E 601-49430-220 Repair/Maint Supply (GE					\$1,591.48	
Invoice	11435 4/17/2018						
Transaction Date	5/2/2018	MAIN CHECKING G	10100	Total		\$1,591.48	
Refer	72485 PACE ANALYTICAL SERVICES						
Cash Payment	E 602-49480-300 Professional Srvs (GEN					\$133.46	
Invoice	181292596 4/18/2018						
Cash Payment	E 602-49480-300 Professional Srvs (GEN					\$88.62	
Invoice	181292810 4/26/2018						
Transaction Date	5/2/2018	MAIN CHECKING G	10100	Total		\$222.08	
Refer	72486 LHB ENGINEERS & ARCHITECTS						
Cash Payment	E 602-49431-303 Engineering Fees					\$2,253.13	
Invoice	160861.00 -8 4/18/2018						
Cash Payment	E 601-49431-303 Engineering Fees					\$965.62	
Invoice	160861.00 -8 4/18/2018						
Transaction Date	5/2/2018	MAIN CHECKING G	10100	Total		\$3,218.75	
Refer	72487 US BANK						
Cash Payment	E 601-47027-601 Debt Srv Bond Principal					\$10,000.00	
Invoice	125 4/24/2018						
Cash Payment	E 601-47027-611 Bond Interest					\$837.67	
Invoice	125 4/24/2018						
Cash Payment	E 601-47027-620 Fiscal Agent s Fees					\$217.70	
Invoice	125 4/24/2018						
Transaction Date	5/2/2018	MAIN CHECKING G	10100	Total		\$11,055.37	
Refer	72488 GREG LYKINS						
Cash Payment	E 602-49490-241 Safety Equipment					\$189.99	
Invoice	BOOTS 5/3/2018						
Transaction Date	5/3/2018	MAIN CHECKING G	10100	Total		\$189.99	



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Payments

City of Grand Marais

Current Period: May 2018

Refer	72489	MN DEPT. OF EMPLOY & ECON U			
Cash Payment	E 604-49590-430	Miscellaneous (GENERA			\$250.00
Invoice	12041911	5/1/2018			
Transaction Date	5/3/2018	MAIN CHECKING G	10100	Total	\$250.00
Refer	72496	UTILITY CONSULTANTS, INC			
Cash Payment	E 602-49480-300	Professional Svcs (GEN			\$334.10
Invoice	98130	4/26/2018			
Transaction Date	5/3/2018	MAIN CHECKING G	10100	Total	\$334.10
Refer	72504	TOSHIBA BUSINESS SOLUTIONS			
Cash Payment	E 604-49590-200	Office Supplies (GENER			\$71.50
Invoice	14460240	4/19/2018			
Cash Payment	E 601-49440-200	Office Supplies (GENER			\$20.11
Invoice	14460240	4/19/2018			
Cash Payment	E 602-49490-200	Office Supplies (GENER			\$20.11
Invoice	14460240	4/19/2018			
Transaction Date	5/4/2018	MAIN CHECKING G	10100	Total	\$111.72
Refer	72505	COOK COUNTY HOME CENTER			
Cash Payment	E 604-49570-220	Repair/Maint Supply (GE			\$570.48
Invoice	251509	4/25/2018			
Transaction Date	5/4/2018	MAIN CHECKING G	10100	Total	\$570.48
Refer	72507	ARROWHEAD COOPERATIVE	Ck# 004235E 5/20/2018		
Cash Payment	E 604-49590-321	Telephone			\$195.09
Invoice	2244	5/1/2018			
Transaction Date	5/4/2018	MAIN CHECKING G	10100	Total	\$195.09

Fund Summary

	10100 MAIN CHECKING GMSB	
101 GENERAL FUND		\$43,070.46
211 LIBRARY		\$1,425.41
215 LIBRARY RESTRICTED FUND		\$148.24
429 PUBLIC WORKS FACILITY		\$32,095.00
601 WATER		\$16,280.00
602 SEWER		\$3,019.41
604 ELECTRIC		\$13,215.19
609 MUNICIPAL LIQUOR FUND		\$21,394.39
		<u>\$130,648.10</u>

Pre-Written Checks	\$195.09
Checks to be Generated by the Computer	\$32,319.51
Total	\$32,514.60

City of Grand Marais

MEMO

TO: Chair Hansen
Public Utilities Commissioners

FROM: Michael J. Roth, City Administrator

DATE: May 1, 2018

SUBJECT: Advanced Metering Infrastructure Pilot Project

Summary

Last month the Commission reviewed a memo summarizing our efforts to implement an Advanced Metering Infrastructure (AMI) system. This month, staff is bringing a pilot project scope, quote, and documentation for consideration.

Grand Marais Pilot

Our pilot project is designed to build the entire network infrastructure necessary to operate an AMI system for electric meters, water meters, and load management. The quote includes the network software, equipment, and tools along with 70 electric meters and 30 electric meters with automatic disconnect, and 24 load control units. There is also the project management fee to get our system designed, our staff trained, and our AMI software integrated with billing. We don't have water meters included at this time but likely will add a few to the pilot.

This pilot project allows us to test network, learn to operate the meters, and most importantly get our load management system functioning again. Although a pilot, this will basically set us up to add meters to the system with no other startup costs.

MRES

In addition to the pilot quote, we intend to enter into an agreement with SMMPA and MRES to host the data from our meters. This hosting allows us to focus on operating the system rather than managing the large amounts of data that the system will generate. It also allows us to test the idea of off-site data management prior to the entire system being installed, and learn how load management can integrate with off-site meter data. This also provides up with an extra layer of support for our staff to resolve any software or data issues. There is an annual fee of \$2,000 plus a monthly fee of \$0.25/meter. This pilot also gives SMMPA time to evaluate whether they will continue to partner with MRES, host their own solution, or some hybrid.



City of Grand Marais (Grand Marais, MN)

Quoted By: Tom Thorson, Jim Roche, Megan Freeman

RF AMI and Two-way DR Pilot Pricing (with MRES Equivalent Discounted Pricing)

Quote Date: April 30, 2018

	Units	Units of Measure	MRES CDR Member Unit Price	Total Price
Software and Interfaces				
Yukon Module License - RF AMI (assumes MRES CDR Participant Equivalent DISCOUNT)	1	each	\$15,000.00	\$15,000
Yukon Module License - Load Management / Demand Response	1	each	\$10,000.00	\$10,000
Billing/CIS Flat-file Interface (Eaton to provide the Yukon-end of this interface which includes the ability to generate a standard Eaton flat file format for billing transfer to the CIS/Billing System. Any license, services, or fees required by the Billing/CIS vendor to accept import of this flat file is the City/utility's responsibility.) (one-time)	1	each	\$1,500.00	\$1,500
Total Software and Interfaces				\$26,500

AMI Network Infrastructure

RF Network Infrastructure

Gateway with Ethernet Port	2	each	\$2,060.00	\$4,120
Gateway - External Antenna Kit (50' cable)	2	each	\$411.00	\$822
Gateway 800 Option - Mounting Cabinet with UPS	2	each	\$1,350.00	\$2,700
Relay 851 - Internal Antenna, 120-277 VAC	8	each	\$245.00	\$1,960
Relay Option - Streetlight Photocell Power Adapter	0	each	\$140.00	\$0
Total RF Network Infrastructure				\$9,602

Miscellaneous Network Tools

RF Tools and Equipment

Network Scout (standard RF Mesh field tool kit)	1	each	\$4,016.00	\$4,016
Total RF Tools and Equipment				\$4,016

Network Devices

RF Retrofit Kits for Existing Meters

RF Retrofit Kits

RFN-510FL/520FX/520FD Retrofit Kit for Landis+Gyr FOCUS AL, AX, AX-SD, AXe, AXe-SD (without integration)	0	each	\$75.00	\$0
RFN-410cL Retrofit Kit for Itron C1S (without integration)	0	each	\$75.00	\$0
RFN-430A3 Retrofit Kit for Elster A3 ALPHA (without integration)	0	each	\$195.00	\$0
RFN-430SL Retrofit Kit for Itron SENTINEL (without integration)	0	each	\$195.00	\$0
RFN-530S4e/RFN-530S4x Retrofit Kit for Landis+Gyr S4e/x (without integration)	0	each	\$195.00	\$0
Total Retrofit Kits				\$0

Misc Other Nodes (Communication Modules Only)

RF Water Nodes

RFW-201 Water Node with Standard Cable	0	each	\$99.00	\$0
RFW-201 Water Node with Itron Connector	0	each	\$108.00	\$0
RFW-201 Water Node with Nicor Connector	0	each	\$115.00	\$0
Total Water Nodes				\$0

Residential Electric Meters

Itron C1SX

RFN-410cL Itron Centron C1SX - Residential Meter with Integrated RF Node

RFN-410cL Itron Centron C1SX - FM1S CL100 120V with Integrated RF Node	0	each	\$153.00	\$0
RFN-410cL Itron Centron C1SX - FM2S CL200 240V with Integrated RF Node	70	each	\$110.00	\$7,700
RFN-410cL Itron Centron C1SX - FM2S CL320 240V with Integrated RF Node	0	each	\$153.00	\$0
RFN-410cL Itron Centron C1SX - FM3S CL20 120V/240 V with Integrated RF Node	0	each	\$153.00	\$0
RFN-410cL Itron Centron C1SX - FM4S CL20 240V with Integrated RF Node	0	each	\$153.00	\$0
RFN-410cL Itron Centron C1SX - FM12/25S CL200 120/208V with Integrated RF Node	0	each	\$185.00	\$0

Itron C2SXD (Integrated Disconnect)

RFN-420cD Itron Centron II C2SXD - Residential Meter with Integrated RF Node

RFN-420cD Itron Centron II C2SXD - FM1S CL100 120V with Integrated RF Node	0	each	\$235.00	\$0
RFN-420cD Itron Centron II C2SXD - FM2S CL200 240V with Integrated RF Node*	30	each	\$168.00	\$5,040
RFN-420cD Itron Centron II C2SXD - FM12/25S CL200 120/208V with Integrated RF Node	0	each	\$255.00	\$0

* Note: Line item qualifies for volume pricing considerations.

Landis+Gyr FOCUS AL

RFN-510fL Landis+Gyr FOCUS AL - Residential Meter with Integrated RF Node

RFN-510fL Landis+Gyr FOCUS AL - FM1S CL100 120V with Integrated RF Node	0	each	\$147.00	\$0
RFN-510fL Landis+Gyr FOCUS AL - FM2S CL200 240V with Integrated RF Node	0	each	\$110.00	\$0
RFN-510fL Landis+Gyr FOCUS AL - FM2S CL320 240V with Integrated RF Node	0	each	\$147.00	\$0
RFN-510fL Landis+Gyr FOCUS AL - FM2K CL480 240V with Integrated RF Node	0	each	\$267.00	\$0
RFN-510fL Landis+Gyr FOCUS AL - FM3S CL20 120V/240V with Integrated RF Node	0	each	\$147.00	\$0
RFN-510fL Landis+Gyr FOCUS AL - FM4S CL20 240V with Integrated RF Node	0	each	\$147.00	\$0



City of Grand Marais (Grand Marais, MN)

Quoted By: Tom Thorson, Jim Roche, Megan Freeman

RF AMI and Two-way DR Pilot Pricing (with MRES Equivalent Discounted Pricing)

Quote Date: April 30, 2018

	Units	Units of Measure	MRES CDR Member Unit Price	Total Price
RFN-510fL Landis+Gyr FOCUS AL - FM12/25S CL200 120/208V with Integrated RF Node	0	each	\$168.00	\$0

Landis+Gyr FOCUS AXe-SD

RFN-520fD Landis+Gyr FOCUS AXe-SD - Residential Meter with Integrated RF Node

RFN-520fD Landis+Gyr FOCUS AXe-SD - FM1S CL100 120V with Integrated RF Node	0	each	\$235.00	\$0
RFN-520fD Landis+Gyr FOCUS AXe-SD - FM2S CL200 240V with Integrated RF Node*	0	each	\$218.00	\$0
RFN-520fD Landis+Gyr FOCUS AXe-SD - FM12/25S CL200 120/208V with Integrated RF Node	0	each	\$255.00	\$0

* Note: Line item qualifies for volume pricing considerations.

Total Residential Electric Meters \$12,740

Commercial & Industrial Electric Meters

Elster A3 ALPHA

RFN-430A3 Elster A3 ALPHA - C&I Meter with Integrated RF Node

RFN-430A3 Elster A3 ALPHA (TOU Enabled) - FM5/35S CL20 120-480V with Integrated RF Node	0	each	\$397.00	\$0
RFN-430A3 Elster A3 ALPHA (TOU Enabled) - FM6/36S CL20 120-480V with Integrated RF Node	0	each	\$397.00	\$0
RFN-430A3 Elster A3 ALPHA (TOU Enabled) - FM8/9S CL20 120-480V with Integrated RF Node	0	each	\$397.00	\$0
RFN-430A3 Elster A3 ALPHA (TOU Enabled) - FM9S CL200 120-480V with Integrated RF Node	0	each	\$397.00	\$0
RFN-430A3 Elster A3 ALPHA (TOU Enabled) - FM12S CL200 120-480V with Integrated RF Node	0	each	\$397.00	\$0
RFN-430A3 Elster A3 ALPHA (TOU Enabled) - FM12S CL320 120-480V with Integrated RF Node	0	each	\$443.00	\$0
RFN-430A3 Elster A3 ALPHA (TOU Enabled) - FM14/15/16S CL200 120-480V with Integrated RF Node	0	each	\$397.00	\$0
RFN-430A3 Elster A3 ALPHA (TOU Enabled) - FM16S CL320 120-480V with Integrated RF Node	0	each	\$443.00	\$0
RFN-430A3 Elster A3 ALPHA (TOU Enabled) - FM45S CL200 120-480V with Integrated RF Node	0	each	\$397.00	\$0

Landis+Gyr FOCUS AX Poly (AX-WR)

RFN-530AX Landis+Gyr FOCUS AX-WR - C&I Meter with Integrated RF Node

RFN-530AX Landis+Gyr FOCUS AX-WR (TOU Enabled) - FM5/45S CL20 120-277V with Integrated RF Node	0	each	\$416.00	\$0
RFN-530AX Landis+Gyr FOCUS AX-WR (TOU Enabled) - FM6/36S CL20 120-277V with Integrated RF Node	0	each	\$416.00	\$0
RFN-530AX Landis+Gyr FOCUS AX-WR (TOU Enabled) - FM8/9S CL20 120-277V with Integrated RF Node	0	each	\$416.00	\$0
RFN-530AX Landis+Gyr FOCUS AX-WR (TOU Enabled) - FM12/25S CL200 120-277V with Integrated RF Node	0	each	\$416.00	\$0
RFN-530AX Landis+Gyr FOCUS AX-WR (TOU Enabled) - FM12/25S CL320 120-277V with Integrated RF Node	0	each	\$431.00	\$0
RFN-530AX Landis+Gyr FOCUS AX-WR (TOU Enabled) - FM16S CL200 120-277V with Integrated RF Node	0	each	\$416.00	\$0
RFN-530AX Landis+Gyr FOCUS AX-WR (TOU Enabled) - FM16S CL320 120-277V with Integrated RF Node	0	each	\$431.00	\$0

Landis+Gyr S4x

RFN-530S4 Landis+Gyr S4e - C&I Meter with Integrated RF Node

RFN-530S4x Landis+Gyr RXRS4x (TOU Enabled) - FM5/45S CL20 120-480V with Integrated RF Node	0	each	\$595.00	\$0
RFN-530S4x Landis+Gyr RXRS4x (TOU Enabled) - FM6/36S CL20 120-480V with Integrated RF Node	0	each	\$595.00	\$0
RFN-530S4x Landis+Gyr RXRS4x (TOU Enabled) - FM8/9S CL20 120-480V with Integrated RF Node	0	each	\$595.00	\$0
RFN-530S4x Landis+Gyr RXRS4x (TOU Enabled) - FM9S CL200 120-480V with Integrated RF Node	0	each	\$595.00	\$0
RFN-530S4x Landis+Gyr RXRS4x (TOU Enabled) - FM12S CL200 120-480V with Integrated RF Node	0	each	\$595.00	\$0
RFN-530S4x Landis+Gyr RXRS4x (TOU Enabled) - FM12S CL320 120-480V with Integrated RF Node	0	each	\$595.00	\$0
RFN-530S4x Landis+Gyr RXRS4x (TOU Enabled) - FM14/15/16S CL200 120-480V with Integrated RF Node	0	each	\$595.00	\$0
RFN-530S4x Landis+Gyr RXRS4x (TOU Enabled) - FM16S CL320 120-480V with Integrated RF Node	0	each	\$595.00	\$0
RFN-530S4x Landis+Gyr RXRS4x (TOU Enabled) - FM45S CL200 120-480V with Integrated RF Node	0	each	\$595.00	\$0

Itron Sentinel

RFN-430SL Itron Sentinel - C&I Meter with Integrated RF Node

RFN-430SL Itron Sentinel (TOU Enabled) - FM5/45S CL200 120-480V with Integrated RF Node	0	each	\$423.00	\$0
RFN-430SL Itron Sentinel (TOU Enabled) - FM6/36S CL20 120-480V with Integrated RF Node	0	each	\$423.00	\$0
RFN-430SL Itron Sentinel (TOU Enabled) - FM8/9S CL20 120-480V with Integrated RF Node	0	each	\$423.00	\$0
RFN-430SL Itron Sentinel (TOU Enabled) - FM9S CL200 120-480V with Integrated RF Node	0	each	\$423.00	\$0
RFN-430SL Itron Sentinel (TOU Enabled) - FM12S CL200 120-480V with Integrated RF Node	0	each	\$423.00	\$0
RFN-430SL Itron Sentinel (TOU Enabled) - FM12S CL320 120-480V with Integrated RF Node	0	each	\$455.00	\$0
RFN-430SL Itron Sentinel (TOU Enabled) - FM14/15/16S CL200 120-480V with Integrated RF Node	0	each	\$423.00	\$0
RFN-430SL Itron Sentinel (TOU Enabled) - FM16S CL320 120-480V with Integrated RF Node	0	each	\$455.00	\$0
RFN-430SL Itron Sentinel (TOU Enabled) - FM45S CL200 120-480V with Integrated RF Node	0	each	\$423.00	\$0

Total C&I Meters \$0

Other Network Devices

Demand Response - RF Mesh LCRs

LCR-6200 with RF Mesh Radio: Single Relay, One 5 Amp Relay for AC Control 120-240V	0	each	\$149.00	\$0
LCR-6600 with RF Mesh Radio: Single Relay, One 30 Amp Relay for WH Control 120-240V	0	each	\$155.00	\$0
LCR-6600 with RF Mesh Radio: Dual Relay, One 5 Amp & One 30 Amp for AC & WH Control 120-240V	24	each	\$170.00	\$4,080
LCR-6600 with RF Mesh Radio: Triple Relay, Two 5 Amp & One 30 Amp 120-240V	0	each	\$175.00	\$0
LCR-6600 with RF Mesh Radio: Single Relay, One 30 Amp (2A@480V) Relay for Irrigation Control 277/480V	0	each	\$217.00	\$0



City of Grand Marais (Grand Marais, MN)

Quoted By: Tom Thorson, Jim Roche, Megan Freeman

RF AMI and Two-way DR Pilot Pricing (with MRES Equivalent Discounted Pricing)

Quote Date: April 30, 2018

Units	Units of Measure	MRES CDR Member Unit Price	Total Price
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Total Demand Response **\$4,080**

Professional Services

PM, Training, & Site Assessment

Description	Units	Units of Measure	Member Unit Price	Total Price
Project Management Services for AMI and DR	1	unit	\$30,000.00	\$30,000
Support for AMI Software module (MRES CDR Participant Equivalent DISCOUNT)	1	year	\$5,000.00	\$5,000
Eaton support of MRES CDR VM, DR Software, and RF AMI Communications Network Support (yearly)	1	year	\$3,500.00	\$3,500
Total PM, Training, & Site Assessment				\$38,500

Shipping Calculation

Shipping at 2% of Total Hardware	\$638.76
Shipping Total	\$638.76
Grand Total	\$96,076.76

This bid contains confidential material that constitutes either (1) trade secrets and (2) commercial or financial information, the disclosure of which would cause substantial competitive harm to Eaton. Unprotected information is identified herein with yellow highlighting. Anything not highlighted shall be assumed protected.

Eaton's standard terms and conditions apply, with the additional condition that freight will be prepaid and added to invoices at a standard rate of 2% for shipment in the contiguous 48 states and at appropriate quoted rates elsewhere. Alternative freight carrier arrangements can be made at purchaser request. Installation Costs, Travel and Living Charges, and Applicable Taxes are not included and will be invoiced separately.

All quoted meter, module and integration prices quoted are based upon a direct sale from Eaton to the utility at stated quantities, any deviations from this may result in adjusted meter, module and integration pricing.

This quotation and all the information contained in it are considered to be the confidential information of Eaton and shall not be disclosed to any third party without the express written consent of Eaton, which consent shall be within the sole discretion of Eaton. **Pricing is valid for 90 days.**

Hosted Advanced Metering Infrastructure Operating Services Agreement

This **Operating Services Agreement** (Agreement) is made as of [CURRENT DATE] (Effective Date), by and between SOUTHERN MINNESOTA MUNICIPAL POWER AGENCY, a municipal corporation and political subdivision of the State of Minnesota, organized and existing under the laws of the State of Minnesota (the "Agency"), and the CITY OF LAKE CITY, a municipal corporation of the State of Minnesota and a member of the Agency (the "Member"), acting by and through LAKE CITY PUBLIC UTILITIES COMMISSION, which is the body empowered by law or charter to establish and regulate rates and charges for the distribution of electric energy within the city and is the "governing body" of the Member for the purposes of Minnesota Statutes, Chapter 453 (the "Act"), as defined in Section 453.52, Subdivision 7 of the Act. The Agency and Member are individually referred to as "Party" and collectively referred to as "Parties."

WHEREAS, Member desires to install advanced metering infrastructure ("AMI") equipment and devices, which may include gateways, relays, meters and other equipment in order to create efficiencies in billing, data retention, and distribution system operations; and,

WHEREAS, the Agency and Missouri River Energy Services ("MRES") are parties to that certain Operating Services Agreement dated as of March __, 2018 (the "Host Agreement"), a copy of which is attached hereto as Exhibit A, pursuant to which MRES has agreed to host AMI for SMMPA and its members; and,

WHEREAS, Member is willing to commit to implementing the hosted AMI service as contemplated in the Host Agreement on a pilot project basis for a period not to exceed one year;

Now, therefore, in consideration of the promises herein and for other good and valuable consideration, receipt of which each Party hereby acknowledges, the Parties agree as follows:

1. DEFINITIONS

Capitalized terms used but not defined herein shall have the meaning given to such terms in the Host Agreement.

2. TERM OF AGREEMENT

2.1. This Agreement shall be effective as of the date first shown above and shall remain in full force and effect for twelve (12) months, unless terminated earlier pursuant to Section 2.2 or 2.3.

2.2. In the event that Member implements its own AMI system, Member may terminate this Agreement by providing written notice to the Agency of its intention to terminate this Agreement at least one (1) month prior to such termination, subject to the fees as provided in Section 6.

2.3. In the event the Host Agreement terminates, this Agreement shall automatically terminate without any further action by the parties. The Agency shall give prompt written notice to Member in the event of any such termination.

3. AGENCY SERVICES AND RESPONSIBILITIES

3.1. Member acknowledges and agrees that the services for Member relating to the AMI system are as described in Sections 3 and 5 of the Host Agreement, and will be provided solely by MRES pursuant to the Host Agreement. The Agency shall have no obligations with respect to such services, except for the obligations of the Agency described in Section 4 of the Host Agreement.

3.2. The Agency agrees for the benefit of Member to perform its obligations and enforce its rights under the Host Agreement as set forth therein; provided that notwithstanding any provision herein to the contrary, Member is not a party to the Host Agreement and shall not make any claim, demand, consent, waiver or other request on or to MRES in respect of the Host Agreement, except through the Agency.

3.3. The Agency will promptly notify Member of any Planned Outages for which it receives notice and of any other material notices received from MRES in respect of the Host Agreement.

4. MEMBER RESPONSIBILITIES

Member shall undertake the obligations of "SMMPA Member" as set forth in the Host Agreement, including the following:

4.1. Member shall select a technology and vendor to implement the Member Equipment. All equipment and software shall be compatible with the Master Station and approved by MRES to be eligible for participation in the AMI System.

4.2. Member shall confirm that their billing system integrates with the data and format reported by the AMI software prior to implementation.

4.3. Member shall designate an individual employee to serve as its single point of contact to work with the Agency and MRES during the implementation of the Member Equipment.

4.4. Member shall provide at its sole cost all Member Equipment located on Member side of the Point of Demarcation.

4.5. Member shall coordinate its system with neighboring utilities, as necessary, to avoid interference or electronic communications issues that may impair the function of the MRES Communication Equipment or AMI System.

4.6. Member shall work with the Agency and MRES to develop the Member Program Design. Member shall request additions and/or updates to the Member Program Design in writing.

4.7. Member shall maintain Member Equipment in good operating condition and shall make repairs to faulty equipment, RF communication problems, mesh network problems, etc. located on Member side of the Point of Demarcation.

4.8. Member shall perform initial acceptance testing of the system, satisfactory to the Agency and MRES, prior to activating the system for production. Acceptance criteria are defined in EXHIBIT B to the Host Agreement.

4.9. Member shall make any vendor-recommended upgrade(s) to endpoint equipment necessary to ensure compatibility with the AMI System within 3 months of notification, unless otherwise agreed to by the Parties.

4.10. Member shall provide adequate space and power for load meter reading equipment and communication networks.

4.11. Member shall provide the Agency and MRES with information from the vendor of its AMI System describing the available operating abilities.

4.12. Member shall make available current meter values for MRES to backhaul to the Master Station. Values shall be provided on a frequency of every five minutes or a multiple thereof.

5. FEES AND VERIFICATION PAYMENTS

5.1. Member shall pay the Agency the annual fee and per month meter an annual fee, and per meter per month fees that the Agency is required to pay to MRES pursuant to Section 6.1 of the Host Agreement.

5.2. Member shall be responsible for all costs associated with its responsibilities described in Section 4.

6. POWER SALE AGREEMENT UNAFFECTED

6.1. Nothing in this Agreement alters the terms and conditions of the Power Sales Agreement. Member shall continue to be responsible for purchasing power according to the terms of the Agreement, regardless of any failure or misoperation of the AMI System, or Member Equipment, or of Agency or MRES Staff to properly operate the AMI System.

7. LICENSING

7.1. The AMI System may contain or employ certain technologies licensed to MRES by the AMI vendor. This Agreement is subject to any such license, including any restrictions on transferability or other limitations defined in the terms and conditions of the vendor's license agreement. Furthermore, Member agrees to comply with all product manufacturer's copyright, licensing, distribution, installation, warranty, infringement, liability, confidentiality, consequential damages and evaluation regulations as defined in EXHIBIT D to the Host Agreement, which is incorporated herein by reference.

8. GOVERNING PROVISIONS

8.1. Nothing in this Agreement shall be construed to create any duty to, any standard of care with reference to, or any liability or obligation, contractual or otherwise, to any third party. Except for its gross negligence, or for nonpayment of bills or as otherwise specifically provided in this Agreement, neither Party, nor its directors, or members of its governing boards, officers, employees or agents, shall be liable to the other Party for any loss, damage, claim, cost, charge or expense arising from performance or nonperformance under this Agreement. The Agency makes no warranty or guarantee as to the effectiveness or continuous operation of the AMI System or of MRES's performance under the Host Agreement.

8.2. This Agreement shall inure to the benefit of and be binding upon the successors and assigns of the Parties hereto. The obligations and responsibilities of this Agreement may be assigned by

either Party only with the prior written approval of the other, which approval shall not be unreasonably withheld, and the written acceptance of such assignment, including all obligations, by the Assignee.

8.3. Any notice required by this Agreement shall be given in writing unless specified elsewhere in this Agreement to be given orally and confirmed in writing. All notices shall be deemed properly given if delivered personally, including by facsimile transmission, or sent by United States mail, first-class postage prepaid to either Party as noted below:

The Agency:
Southern Minnesota Municipal Power Agency
ATTN: Director of Agency and Government Relations
500 First Avenue SW
Rochester, MN 55902-3303

Member:

Lake City Utilities
ATTN: Director of Public Works
205 West Center Street
Lake City, MN 55041-1609

Either Party may change its designation of the person who is to receive notices on its behalf by giving the other Party written notice.

8.4. The headings in this Agreement are for reference only and shall not limit or otherwise affect the meaning hereof.

8.5. With the exception of other state or federal statutes and regulations governing the operation of demand response, this Agreement shall be interpreted in accordance with the laws of the State of Minnesota.

8.6. If any term of this Agreement is declared by a court of competent jurisdiction to be illegal or in conflict with any applicable law or otherwise invalid or unenforceable, the legality, validity, and enforceability of the remaining terms shall not be affected thereby.

8.7. This Agreement, together with Exhibit A, constitutes the full and complete understanding between the Parties.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their officers, each hereunto duly authorized, on the date and year first written above.

SOUTHERN MINNESOTA MUNICIPAL POWER AGENCY

Christopher P. Schoenherr
Director of Agency and Government Relations & Chief External Affairs Officer

CITY OF LAKE CITY

[NAME] [TITLE]

EXHIBIT A. HOST AGREEMENT

City of Grand Marais

MEMO

TO: Chair Hansen
Public Utilities Commissioners
FROM: Michael J. Roth, City Administrator
DATE: May 1, 2018
SUBJECT: Arrowhead Electric Cooperative Collaborative Opportunities Conversation

Attached is a memo Commissioner Kennedy asked me to put on the next agenda for discussion. Staff can provide an update on a few ongoing collaborative efforts at the meeting.

**Grand Marais PUC / Arrowhead Cooperative
COLLABORATION**

- 1. OPERATIONS AND MAINTENANCE AGREEMENT**—East Central Energy Cooperative and Mora Municipal Utilities O&M Agreement (2010); enclosed as template for discussion.
- 2. TECHNOLOGY ADVANCES**--- Advanced Metering Infrastructure (AMI); Tantalus as example. Smart Grid; SCADA, Conservation Voltage Reduction, will yield savings, and improve reliability.
- 3. RELIABILITY OF TRANSMISSION AND STANDBY GENERATORS**---AEC and PUC share single source 69KV Transmission line; could also share standby generating capacity.
- 4. COOK COUNTY AND GRAND MARAIS ENERGY CONSERVATION AND RENEWABLE ENERGY PLAN**---List of Goals endorsed by AEC Board on 1/25/18; renewable energy credits to sell! Reduction of CO2 emissions by GRE and AEC and PUC are mutual goals.
- 5. BENEFICIAL ELECTRIFICATION**--- AEC and PUC each have customer rebates; also working together on electric vehicle chargers in Grand Marais and Lutsen; AEC has expertise in load controls for ETS and water heaters.
- 6. MUTUAL AID**---line crew assistance, equipment, emergency communications via True North Broadband, marketing of community solar panels, are recent examples of mutual collaborations.
- 7. CUSTOMER CENTRIC**--- AEC organization (chart attached) brings 22 professional employees to the Strategic Imperatives of AEC (enclosed); sharing of physical and human resources will be more efficient in providing services to all consumers in Cook County.
- 8. LOCAL GOVERNANCE & CONTROL**--- Grand Marais PUC and AEC Board each maintain their own autonomy, with respect to finances, rates, terms & conditions of service, etc. The 4th principle of cooperatives is: "AUTONOMY & INDEPENDENCE!" PUC has lower cost rates!

Grand Marais Public Utilities

From: Butcher, Keith [kr.butcher@smmpa.org]
Sent: Wednesday, April 11, 2018 1:37 PM
To: _DL MEM North
Cc: _DL SMP Member Support
Subject: Monthly Update

Good Afternoon,

Below is an update on my recent activities. Let me know if you have any questions.

Thanks,
Keith

1.) Grand Marais

- a. Continuing to work with North Shore Hospital on their new construction rebate. Met with Chris Lange on 4/4. There are only a couple of more lights to be installed. I expect the rebate to be issued by the end of April. An open house is expected for mid-May. We will schedule a "Big Check" picture with the Commission.
 - i. 25.72 kW; 201,191 kWh; \$36,778
 - ii. There has been some local concerns raised regarding the brightness and color temperature of the parking lot lights. I'm helping Chris identify options for addressing these issues.
- b. Helping Diane (Community Center) with an LED retrofit proposal. Site visit conducted on 1/30. I saw Dave Saethre (contractor) in town on 1/30 and we talked about this project. He sent me the spec sheets. I am still waiting for invoices on work already completed.
- c. The Commission has requested that I provide them with periodic updates on my activities. I attended the commission meeting on 4/4 and updated them on my recent activities.
 - i. The Commission would like to publicize their year-to-date success. SMMPA will compose a draft in time for their next meeting.
- d. Working with Jeff Stoddard (Sawtooth Clinic) on an LED retrofit.
- e. Grand Marais would like a few more cases of LEDs for giveaways.
- f. LED rebate issued to Johnson Foods
 - i. 3.82 kW; 28,075 kWh; \$1,667.31.

2.) North Branch

- a. LED rebate issued to Perkins
 - i. 13.86 kW; 91,256 kWh; \$2,657.25
- b. Received preliminary information for an LED proposal at Peterson's Mill.
- c. Answered some questions for a residential customer.
- d. Working with Juanita (Shield's Plaza Apartments) on efficiency upgrades throughout their multifamily building.

3.) Princeton

- a. Approved a food service rebate for Fairview. I will enter into rebate system when it is updated.
- b. LED rebate issued to Princeton Public Utilities for all 2017 street light, security light, and office improvements
 - i. 2.62 kW; 34,250 kWh; \$5,912.11
- c. Working on an LED rebate for Williams-Dingmann Funeral Home. Post-inspection conducted on 3/22. Identified additional lights not included in original application. Harold said that Dale (contractor) should be able to provide that to me.
- d. LED rebates issued to the WWTP for exterior lights.

- i. 0 kW; 11,231 kWh; \$1,242
 - e. Working with Donde (Riverview Place Apartments) on an LED conversion in the hallways.
 - 4.) Mora
 - a. Working with Rita (St. Mary's Catholic Church) on an LED rebate application. Customer has not been able to follow-up so I called Myron (Belford Electric) on 2/12. He will email me the information.
 - b. Met with Chip Brandt (Mora School District) on 1/17. Reported that I have not received any rebate applications for the new primary school nor have I received any information on the new Wellness Center. Chip asked me to reach out to Nate (contractor) who is part of the construction team. Nate emailed me back (2/6) and send they would look through the information I sent.
 - c. LED rebate issued to First Citizen's Bank.
 - i. 2.20 kW; 10,924 kWh; \$980
 - d. Lakes and Pines have been notified that the 2018 budget will be \$0 however, the city will consider any unique hardship cases that may arise.
 - e. Met with Rose (HRA) to discuss 2018 and 2019 projects on 3/20. We talked about lighting equipment selection focusing on energy efficiency and long term maintenance costs. She will meet with her maintenance person to come up with a specific project list. They will try to get some of the work done this year which would use up the low-income budget and finish up the rest after the first of the year.
 - f. Met with Mark Vizenor and Dick Westerman on 3/20 to discuss the hospital expansion project. We expect to split the project in half. The first part will be complete in 2018 and the rest will be completed in 2019. Mark shared contact information for lighting, HVAC, and food service. I have emailed all three contacts to start the application process.
 - g. Working with Tim Joy (Imperial Plastics) on a T5 and HID retrofit.
 - i. Est. Impacts
 - 1. 27.13 kW; 133,914 kWh; \$8,508.80
 - 5.) Litchfield
 - a. Lincoln Apartments (low-income)
 - i. Working with Pat on their other LED lighting efforts this year. She will get me a proposal and we can talk about how much extra the city wants to kick in.
 - b. First District
 - i. A compressed air leak inspection will occur sometime in the spring. During that inspection, another leak survey will be conducted to find additional leaks.
 - c. Reached out to Casey's regarding the new gas station in town.
 - d. Energy Star Refrigerator rebate issued to Center National Bank.
 - i. 0.01 kW; 43 kWh; \$25
 - e. Working with Todd Anderson (IRD Glass) on a proposed LED retrofit. A total of 750 TLEDs would be installed.
 - 6.) Redwood Falls
 - a. LED rebate issued to Sunwood Good Samaritan for Phase I. Phase II will occur later this year.
 - i. 3.81 kW; 26,790 kWh; \$3,500
 - b. Working with Brent (Heartland Electric) on an LED quote for Clement's Lumber
 - c. Met with Chris Smith (Northstar SystemBuilt) on 4/10 to discuss 2018 rebate offerings and conducted a quick walk-through of the building. We will be looking into LED options and a compressed air leak survey.
 - d. LED rebate approved for Brighter Homes Store
 - i. 4.18 kW; 20,757 kWh; \$2,466.11
 - 7.) General
 - a. Database
 - i. Working on St. Peter and North Branch
 - 1. North Branch has provided an updated customer list. I will begin importing it into our database.
 - 2. St. Peter has provided a customer list. I will import that after North Branch is complete.
 - ii. Attended the 2018 CERTs conference