

Atkinson Energy Meeting Minutes – February 10, 2021

Attending: Jim Garrity, Ellyn Murphy, Doug Early, Marie Torris, Michelle Veasey

Jim read the guidelines for remote, electronic meeting of the Atkinson Energy Commission.

Minutes

Jim provided the December 2nd meeting minutes on screen, in addition to the version emailed to all members. There was no discussion. Ellyn Murphy made a motion to approve the minutes and Doug Early seconded the motion. The minutes were unanimously approved.

LED Lighting

Jim shared the LED lighting warrant article approved by the Selectmen and the Budget Committee.

Article #2021-15 Conversion to LED Street Lights

Shall the Town vote to authorize the Board of Selectmen to enter into an up to one year, tax neutral agreement for the installation of up to \$86,000 of energy saving equipment namely, LED streetlights, with annual payments of approximately \$12,000? Such payments to be funded from annual energy savings in the operating budget. The balance of the cost to be funded by a rebate incentive from the Town's energy provider. No amount to be raised by new taxation.

Recommended by the Selectmen by a vote of _____

Recommended by the Budget Committee by a vote of _____

In anticipation of the next steps, Jim contacted Affinity Lighting to ask for some numbers to frame what the lighting investment would be, how much energy would be saved and the bottom line results of the on-bill financing of the town's upgrade, net of the rebate.

Recording

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ATKINSON STREET 151AN2021 UNTIL REVIEW.xlsx - Last Saved 2/10/2021 5:19 PM

Jim Garity

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Workbook ViewsShowHeadings

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affinity

led lighting

ATKINSON, NH (UNITIL) LED STREETLIGHT CONVERSION

MunicipalityAtkinson, NH

Master Account #2062647000

ANNUAL HOURS4,150

TOTAL KWH RATE\$0.119920

*UES LED OL Estimating Model: All final rates are subject to review and acceptance by Unitil Energy Services, Inc. (DELIVERY + SUPPLY)

MUNICIPAL STREET LIGHTING SUMMARY

CURRENT LIGHTING		PROPOSED LED LIGHTING									
Current Lighting Description	Fixture Qty	Existing Rated Watts	ANNUAL kWh per fixture	TOTAL ANNUAL KWH	MONTHLY CHARGES FOR ALL-SERVICE (per Fixture)	TOTAL ANNUAL COST	Models	LED Rated Watts	ANNUAL kWh per fixture	TOTAL ANNUAL KWH	MONTHLY CHARGES FOR ALL-SERVICE (per Fixture)
50W SVST - HPS COBRA	56	65	270	15,106	\$15.96	\$10,725	Affinity S900D-18W-30K-T2-GR	18	75	4,183	\$13.50
100W MVPB - MV SUBURBAN	1	120	498	498	\$18.85	\$226	Affinity S900D-18W-30K-T2-GR	18	75	75	\$13.50
100W MVST - MV COBRA	114	130	540	61,503	\$18.12	\$24,788	Affinity S900D-18W-30K-T2-GR	18	75	8,516	\$13.50
150W SVFL - HPS FLOOD	1	190	789	789	\$24.98	\$300	Affinity P902D-75W-30K-T3-BR-TNM	75	311	311	\$16.06
150W SVST - HPS COBRA	5	190	789	3,943	\$22.71	\$1,363	Affinity S901D-50W-30K-T2-GR	50	208	1,038	\$14.91
250W MVST - MV COBRA	2	290	1,204	2,407	\$29.41	\$706	Affinity S902D-75W-30K-T2-GR	75	311	623	\$16.06
250W SVST - HPS COBRA	6	295	1,224	7,346	\$30.91	\$2,226	Affinity S903D-100W-30K-T2-GR	100	415	2,490	\$17.22
400W MVFL - MV FLOOD	2	455	1,888	3,777	\$41.04	\$985	Affinity P903D-100W-30K-T3-BR-TNM	100	415	830	\$17.22
400W SVST - HPS COBRA	1	460	1,909	1,909	\$42.86	\$514	Affinity S904D-120W-30K-T3-GR	120	498	498	\$18.12
MAST ARM CHANGES ON POWER BRACKETS	1										
FIXTURES	188			97,276		\$41,832				18,563	

CUSTOMER PAYOFF

REBATE CALCULATOR

Display Settings

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Recording

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Jim Garity

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affinity
led lighting

ATKINSON, NH (UNITIL) LED STREETLIGHT CONVERSION

Municipality: Atkinson, NH Master Account #: 2062647000 ANNUAL HOURS: 4,150 TCsystems, Inc. (DELIVERY + SUPPLY)

Updated: Jan. 15, 2021

MUNICIPAL STREET LIGHTING SUMMARY

Current Lighting Description	Fixture Qty	Existing Rated Watts	ANNUAL kWh per fixture	TOTAL ANNUAL KWH	MONTHLY CHARGES FOR ALL-SERVICE (per Fixture)	TOTAL ANNUAL COST	INSTALLATION SERVICES	EQUIPMENT	ALL-IN COST
		(78,713)			80.9%				
		LONG TERM ENERGY SAVINGS							
		5 Years	(393,565)						
		10 Years	(787,131)						
		20 Years	(1,574,261)						
		ANNUAL CO2 EMISSIONS REDUCTION							
		129,146 lbs	64.6 tons						
		LONG TERM CO2 EMISSIONS REDUCTION							
		5 Years	645,731 lbs 322.9 tons						
		10 Years	1,291,462 lbs 645.7 tons						
		20 Years	2,582,923 lbs 1,291.5 tons						
		ANNUAL OPEX SAVINGS							
		SIMPLE PAYOFF							
		Years	4.33						
		Months	51.9						
		SHORT TERM CUMULATIVE ROI							
		Year 1	(\$35,871)	-63.1%					
		Year 2	(\$25,083)	-44.1%					
		Year 3	(\$14,296)	-25.1%					
		Year 4	(\$3,509)	-6.2%					
		Year 5	\$7,278	12.8%					
		LONG TERM CUMULATIVE ROI							

CUSTOMER PAYOFF REBATE CALCULATOR

Display Settings

7:35 PM 2/10/2021

The above estimate demonstrates the ROI and on-bill financing, paid for with energy savings. The payback period is 51 months, so in Year 5 the town will start to see the full energy savings.

	NBV	Installed Cost (non-networked)	X Payback	Annual Savings
SMALL C&I	\$19,226	\$56,864	5.0	\$10,787
ATKINSON				
Min C & D		\$28,432		
Rebate Offer		\$28,432		
Financial Summary				
Total installed project cost		\$56,864	Source is Affinity	
Project Rebate		\$28,432	ESTIMATE	
Customer project co-pay (Cost minus rebate)		\$28,432		
Monthly repayment 60 months for copay 0% OBF		\$474		
NBV - existing street lights	\$19,226	Source is Unitil		
NBV payment plan 60 months		\$304		
Estimated payments for 60 months NBV+Copay		\$778		
Projected annual kWh savings		(78,713)	Source is Affinity	
Annual operational savings		\$10,787		
Monthly operational savings		\$899		
Simple total project cost payback (install minus rebate + NBV)/Annual Opex		4.33		
CTA		(0.36)		

Jim asked Unitil whether they would pay our rebate directly to the selected vendor, so that Atkinson doesn't have to cut a check and wait for the rebate refund. He will confirm.

Jim stated that Affinity is the state contractor for LED lighting and was informed that Atkinson may not have to put this out to bid. Jim will doublecheck with the Town Administrator.

Ellyn asked if we should reach out to neighboring towns to ask what they wished they knew now that they have been through the upgrade process, which seemed to all like a wise approach.

Jim stated that there has been discussion around forming a committee to determine which lighting should be removed, rather than upgraded so that the Town will not continue to pay for unneeded lighting. The selectmen would be responsible for forming.

The budget committee level funded lighting given the current proposal.

HB-315

Jim shared communications around HB 315 which effectively removes many of the opportunities created by the Community Power law for competitive, renewable energy supply for local communities. Although Atkinson is not yet actively involved in Community Power, it is an opportunity that the Energy Commission has been exploring to lower energy costs for residents and increase access to renewable energy sources. The Commission took a vote to sign on in opposition to the bill via the online portal for the NH legislature. (Unanimous)

<http://gencourt.state.nh.us/house/committees/remotetestimony/default.aspx>

Josh from Clean Energy NH contacted the Commission to introduce himself as Henry's replacement. He asked to meet with us. We will ask him to join us for a Zoom meeting on March 16th.

Ellyn brought up former efforts to develop community solar in Town. There was some discussion around conservation land, but that option is not viable. Given that we have been unable to identify land, should we give up on solar for the town? Should we refocus on community power? Michelle suggested that we develop some goals for the town which would allow more flexibility for approach based on what opportunities are viable and also provide more talking points for communicating with town residents and hopefully gaining more interest and awareness in the community.

A motion to adjourn was made by Doug and seconded by Michelle. With a unanimous vote, the meeting adjourned at 8:30.