

Building	Type	Description	Annual Savings						Cost	Payback (Yrs)	\$/MMBtu	\$/MtCO2e
			Electric (KWh)	#2 Oil (gal)	Propane (gal)	Wood (Cord)	Net MMBtu	MtCO2e				

Completed

Public Safety	ECM	LED Lighting Upgrade (exterior only)	1,221				4.2	0.42	\$ 244	\$ 8,416	34.5	\$ 2,021	\$ 19,979
Hallock	ECM	LED Lighting Upgrade	1,930				6.6	0.67	\$ 386	\$ 8,000	20.7	\$ 1,216	\$ 12,015
Town Hall	ECM	LED Lighting Upgrade	1,097				3.7	0.38	\$ 219	\$ 2,033	9.3	\$ 543	\$ 5,372
Highway Garage	Study	Level II Energy Audit								\$ 2,550			
Subtotals			4,248	-	-		14.5	1.5	\$ 849	\$ 20,999			

Pending - Highway Garage Insulation

Highway Garage	Study	-Roof Structural Analysis -Consulting & Construction dwg								\$ 8,000				
Highway Garage	ECM	ECM 1 (and 2) - Insulate Walls (and office)		138			1.06	42.5	1.4	\$ 489	\$ 38,000	77.7	\$ 894	\$ 27,074
Highway Garage	ECM	ECM 1 - Insulate Roof in conjunction w/new roof installation		208			1.60	64.1	2.1	\$ 737	\$ 17,000	23.1	\$ 265	\$ 8,031
Subtotals			-	345	-		2.67	106.6	3.5	\$ 1,226	\$ 63,000			

Bowman Audit Recommendations (Remaining)

Public Safety	ECM	ECM 1 - Infrared Heating in Apparatus Bay			410		37.4	2.38	\$ 849	\$ 14,755	17.4	\$ 395	\$ 6,208
Town Hall	ECM	ECM 1 - Attic Insulation		64			8.9	0.7	\$ 137	\$ 3,102	22.6	\$ 349	\$ 4,749
Town Hall	ECM	ECM 2 - Wall Insulation for Second Floor		59			8.2	0.6	\$ 126	\$ 2,400	19.0	\$ 293	\$ 3,988
Hallock	ECM	ECM 1 - Basement Windows under Town Offices		24			3.4	0.2	\$ 53	\$ 420	7.9	\$ 124	\$ 1,683
Hallock	ECM	ECM 2 - Attic Insulation over Area between Town Offices and Library Children's Room		59			8.2	0.6	\$ 126	\$ 189	1.5	\$ 23	\$ 314
Hallock	ECM	ECM 3 - Wall Insulation for Basement Walls under Front Entry Area		35			4.8	0.4	\$ 73	\$ 234	3.2	\$ 49	\$ 664
Hallock	ECM	ECM 4 - Insulate Band Joists for Basement Area beneath Library Addition		14			1.9	0.1	\$ 29	\$ 393	13.6	\$ 207	\$ 2,818
Hathaway Hall	ECM	ECM 1 - Relocate Garage Thermostat		124			17.2	1.3	\$ 416	\$ 100	0.2	\$ 6	\$ 79
Hathaway Hall	ECM	ECM 2 - Air Source Heat Pump in Police Station	3,196				10.9	1.10	\$ 525	\$ 5,477	10.4	\$ 502	\$ 4,967
Highway Garage	ECM	ECM 3 - Air Source Heat Pump for Office Space	2,880				9.8	0.99	\$ 504	\$ 5,477	10.9	\$ 558	\$ 5,512
Subtotals			6,076	378	410		110.7	8.3	\$ 2,838	\$ 32,547			

Totals 10,324 724 410 232 13 \$ 4,913 \$ 116,546 23.7 (Avg)

Potential Savings (MMBtu)

Town FY2015 Total Usage (MMBtu)

Potential Savings (%)

232
2,846
8.1%

Grant \$ Avail	Comment
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\$ 137,575 Total Designation Grant

	World Energy calculates payback = 31.2 years (including maintenance savings)
	World Energy calculates payback = 6.9 years (including maintenance savings)
	World Energy calculates payback = 3.7 years (including maintenance savings)

\$ 116,576 Currently uncommitted amount

	Reference Hill Engineering 5/4/18 estimate
	Reference Energia 2/23/18 proposal for walls only (includes Prevailing Wage) Savings adjusted for R-21 walls versus R-30 used by Bowman. (Saving reduced 13%)
	Reference D.P. Carney 3/30/18 Proposals for single-ply, or metal, roof w/insulation (includes Prevailing Wage)

\$ 53,576 Estimate remaining after Hwy Garage insulation

\$ 21,029 Estimate remaining after all Bowman recommendations (**Assuming accurate cost estimates**)