

Gilmanton Energy Audit Summary Page

Energy Usage Analysis

Building	Site EUI (kBtu/Ft²/Year)	Source EUI (kBtu/Ft²/Year)	CUI
GIW Fire Station	73.6	104.8	\$2.31
Public Safety Complex	73.1	93.89	\$1.64
Old Town Hall	56.6	62.3	\$0.97
Waste Transfer Station	28.4	85.1	\$1.41
Public Works	11.0	33.2	\$0.55

The energy analysis shows that the GIW Fire Station and Public Safety buildings are the highest energy consumers per square foot. RBG recommends focusing efforts on improving these two buildings.

Potential Energy Efficiency Measures Identified

Weatherization Projects

Building	Measure	Estimated Cost	Annual Cost Savings	Payback (Years)
DPW Building	Air Sealing	\$1,200	\$295	4.1
Transfer Station	Air Sealing	\$600	\$145	4.2
GIW Fire Station	Air Sealing	\$1,200	\$972	9.8
Public Safety Building	Insulate Attic	\$6,080	\$578	10.5
Transfer Station	Insulate Walls	\$1,400	\$137	10.2
Transfer Station	Insulate Roof	\$3,200	\$274	11.7
Public Safety Building	Air Sealing	\$4,500	\$341	13.2
DPW Building	Simple Saver System	\$8,600	\$481	17.9
Old Town Hall	Insulate Attic Space	\$2,800	\$151	18.6
GIW Fire Station	Insulate Roof	\$25,600	\$982	18.8
Old Town Hall	Insulate Foundation	\$7,790	\$188	41.4
Old Town Hall	Air Sealing	\$6,480	\$148	43.7
Old Town Hall	Insulate Walls	\$20,450	\$307	66.5
Old Town Hall	Storm Windows	\$11,000	\$144	76.7

Lighting Projects

Building	Measure	Estimated Cost	Annual Cost Savings	Payback (Years)
DPW Building	LED Lights	\$3,600	\$822	4.4
Old Town Hall	LED Lights	\$400	\$86	4.7
Transfer Station	LED Lights	\$3,640	\$705	5.2
GIW Fire Station	LED Lights	\$7,600	\$1,378	5.5
Public Safety Building	LED Lights	\$3,500	\$626	5.6

Mechanical Projects

Building	Measure	Estimated Cost	Annual Cost Savings	Payback (Years)
Public Safety Building	Insulate Domestic Hot Water Lines	\$350	\$83	4.2
DPW Building	Electric Baseboard Heater	\$800	\$223	3.6
Transfer Station	Heat Pump System	\$6,300	\$801	7.9
GIW Fire Station	M2B - Heat Pump System	\$13,000	\$1,411	9.2
Old Town Hall	M3 – Heat Pump System (for museum)	\$7,000	\$259	27.0

Solar PV Projects

Building	Measure	Estimated Cost	Annual Cost Savings	Payback (Years)
GIW Fire Station	35 KW PV System	\$87,502	\$8,050	10.9
DPW Building	23 KW PV System	\$57,000	\$5,161	11.1
Public Safety Building	20 KW PV System	\$50,000	\$4,080	12.3
Waste Transfer	22 KW PV System	\$55,000	\$4,818	11.4