## MERP Assessment Breakdown, 7/31 Revision

## **Holley Hall** - Projects Recommended by the Bristol Energy Committee \* Note, projects with figures in blue are questioned by the committee but could be considered.

## Energy Conservation Measures (section 1.3)

\$63,650	Weatherization Projects: some projects have long payouts, but sealing
	the structure as much as possible is a long-term investment in
	efficiency and comfort.
\$1,200	Programable Thermostats
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- \$1,200 Integrated Heating Controls
- <u>\$2,800</u> Lighting retrofit
- \$68,850 Total Energy Conservation Measures

## Renewable and Resilient Energy Measures (section 1.4)

\$44,000*	Battery Electric Storage Batteries could be useful for resiliency as a warming/cooling center. However there is a propane fueled generator in service that makes batteries redundant. Also question of where to install them?		
\$125*	<u>Electric Vehicle Chargers</u> are not applicable here because of lack of location.		
\$19,550	Air-to-Air Heat Pumps for the second floor Meeting space. This is a resiliency measure because the installation of heat pumps in this space will enable the building's use as an emergency heat-		
ing and	cooling center. They will also make summer use		
much more	<b>č</b>		
fortable in	hot weather. Payback should not be an issue		
in this case.			
Heating Sys	tem ECMs and RREMs (section 5)		

Heating System ECMS and KKEWS (section 3)				
\$11,700*	Mid. Eff. Oil-fired Boiler			
	The existing boiler is estimated to have 14 years remaining service			
	life. If funds are available, replacing it would give the town 25			
years	of service life.			

"The air-to-air heat pump/oil hybrid option is not cost-effective from financial payback alone, however the additional benefits of reduced energy cost volatility, positive local impact, and reduced environmental impact make it a worthwhile investment."

Hot Water Circulation Pumps, PSC-Type Motor, Single Speed				
\$???	Replace with more efficient	EC-type motors.		
Sub-total \$100,225 \$ 44,000*	Items in black Batteries			
Total 144,225				
\$2,000	Estimate cost of 6 EC-type c apply.	irculators (FW Webb) Rebates may		
Total (Est) \$146,225				
\$???	-	erior walls are good and that they could the suggests that the reason they are good		
is that		ir-flow between outside and inside layers		
		ald disrupt this air-flow and result in dete-		
rioration over time.		The report recommends hygro-		
thermal computer modeling to evaluate insulation systems				
that pose the least risk.				
ღეეე	The committee calse whether	hast another a ventilation should be		

\$??? The committee asks whether heat exchange ventilation should be considered for the second floor theater space because of loading at events.

Note: with the MERP program there is no cost to the town - no match.