

Boothbay Harbor Schools - Phase 2 Project Scope Summary 9/14/2018										
General Scope Description	Priority Ranking (1 to 3, with 1 being highest priority)	Building / Scope Description		ECM Cost	Energy Cost Avoidance	Energy Rebates	O&M Cost Avoidance	Project Option #1	Project Option #2	
ECM #1 - Lighting Upgrades	1	Boothbay Region High School		\$192,142	\$7,524	\$16,509	\$1,800	✓	✓	
	1	Boothbay Region Elementary School		\$251,890	\$8,322	\$19,226	\$1,800	✓	✓	
ECM #2 - Building Envelope Upgrades	2	Boothbay Region High School		\$48,585	\$2,292	\$0	\$0	✓	✓	
	2	Boothbay Region Elementary School		\$411,057	\$10,533	\$0	\$0	✓	✓	
ECM #3 - Controls & HVAC Upgrades		Boothbay Region High School		\$618,752	-\$2,310	\$0	\$0	✓		
	3		Add ACV's & Associated Controls To Unit Ventilators					✓		
	1		Add a Gravity Backflow Damper to Fume Hood Exhaust System					✓	✓	
	1		Remove Styrofoam Block From Gooseneck's Backdraft Damper					✓	✓	
	2		Replace Paint Spray Exhaust System's Damper and Add Actuator					✓	✓	
	3		Provide Summer Electric Water Heater					✓	✓	
	1		Add a 4-Hour No-Hold Timer Switch For Dishwasher Hood Exhaust Fan					✓	✓	
	2		Add Duct Sleeves, Motorized Dampers, & Humidistats to the 2 Crawl Space Louvers					✓	✓	
	3		Add Air Conditioning / De-humidification for the Auditorium					✓	✓	
	3		Provide De-Stratification Fan in the Auditorium					✓	✓	
	3		Add Transfer Fan to Computer Server Room					✓	✓	
	3		Replace 1950's Vintage Cabinet Heater in Main Lobby					✓	✓	
	3		Add Access Door to Gymnasium Duct Heating Coil, and Vacuum Clean Coil					✓	✓	
	3		Replace Sawdust Collector					✓	✓	
	1		Provide Ventilation System for Weight Room, PE Health Teacher, and 3 Adjacent Small Offices					✓	✓	
	1		Provide Ventilation System for IA Shop					✓	✓	
	1		Replace Boiler Jockey Pumps with Greater Capacity Pumps					✓	✓	
	3		Vacuum Clean VAV Box Heating Coils					✓	✓	
	3		Add Water Meter to DHW System					✓	✓	
	2		Add Rain Hood Over Art Room's Wall Mounted Exhaust Fan					✓	✓	
			Boothbay Region Elementary School		\$2,549,728	\$2,947	\$15,900	\$0	✓	✓
	1		Add Backdraft Damper to Dryer Vent Outlet	✓					✓	
	1		Disconnect and Cap Ductwork at 2 Abandoned Exhaust Hoods	✓					✓	
	1		Remove the Sawdust Collector and Cap Ductwork	✓					✓	
	1		Add Backdraft Dampers to Rooftop Exhaust Fans (EF-3,5,9)	✓					✓	
	3		Add Transfer Fan System to Transfer Heat From Server Room to Main Entrance	✓					✓	
	3		Provide Summer LP Gas Water Heater	✓					✓	
	1		Add 4-Hour No-Hold Timer Switch to Dishwasher Hood Exhaust Fan	✓					✓	
	2		Add CO ₂ Controls to IA/Maintenance Shop Air Handling Unit (HV-7)	✓						
	1		Provide Ventilation System for Band Room/Stage	✓					✓	
	1		Replace HV-2, HV-3, HV-4 and Safety Upgrades to Mechanical Mezzanine	✓						
	1		Replace HV-5, HV-6, HV-7 and Safety Upgrades to Mechanical Mezzanine	✓						
	1		Replace HV-1	✓						
	1		Replace FCU-1 and Extend Generator Vent Up Higher	✓						
	3		Replace Fuel Oil Transfer Pumps with New Day Tank	✓					✓	
	3		Replace Boilers	✓					✓	
	3		Replace Heating Hot Water Pumps	✓					✓	
	3		Provide AC for the Administration Area	✓					✓	
	2		Extend Dryer Vent to Outdoors	✓					✓	
	3		Add Water Meter to DHW System	✓					✓	
		1		Replace 36 - 1977 Vintage Unit Ventilators	\$813,429	-\$3,874	\$0	\$0	✓	✓
ECM #4- Plug Load Power Management	3	Boothbay Region High School		\$6,379	\$858	\$0	\$0	✓	✓	
	3	Boothbay Region Elementary School		\$8,885	\$381	\$0	\$0	✓	✓	
ECM #5 - High Efficiency Transformers	3	Boothbay Region Elementary School		\$73,525	\$2,385	\$0	\$0	✓		
ECM #6- Solar PV Array	3	Boothbay Region Elementary School		\$15,091	\$198	\$0	\$0	✓	✓	
Total Project Cost:								\$4,989,463	\$3,413,816	
Energy Rebates								\$51,635	\$49,735	
Energy Cost Avoidance								\$29,254	\$25,297	
O&M Cost Avoidance								\$3,600	\$3,600	