

Designing New Schools for Energy Efficiency

Requirements

School projects must be no larger than 100,000 sqft and incorporate one of three main efficiency measures - Enhanced HVAC Controls, Building Envelope Upgrade or a Condensing Boiler. Schools must have at least one more measure from PSE's list of additional measures. Pre-approval is required and installed measures must be verified by PSE before incentives will be paid.

Package Incentives are based on the path chosen (A, B, or C) and the main type of heat in the building - gas or electric. Refer to the table of measures and incentives below to determine package options and incentives for the measures selected. Select one or more additional path measures to build your package. You may also add optional enhanced measures to qualify for more financial incentives.

Please note: while the main measure is unique for each path -- the additional measures and the enhanced measures remain the same for all paths.

Main Path Measures		Incentives	
<i>Choose one of the following Main Path Measures - A, B or C</i>		Gas Heat	Electric Heat
A. Enhanced HVAC Controls with Functional Performance Testing For buildings: <ul style="list-style-type: none"> • Optimum Start • Thermostat with holiday scheduling PLUS: For heat pumps: <ul style="list-style-type: none"> • Electric strip heat lockout For VAV systems: <ul style="list-style-type: none"> • Supply air temp reset on load • VAV box fan only for warm-up & set-back heating 		<ul style="list-style-type: none"> • Warm-up with outside air lockout • Enhanced economizer control For hydronic systems: <ul style="list-style-type: none"> • CW & HW variable flow • CW & HW temp reset on load \$ 0.60 / sqft conditioned space	\$ 0.55 / sqft conditioned space
B. Building Envelope to WSEC Zone 2 Electric Resistance Heat <ul style="list-style-type: none"> • Improve wall insulation • Improve roof insulation 		<ul style="list-style-type: none"> • Improve window efficiency \$ 0.80 / sqft conditioned space	\$ 0.85 / sqft conditioned space
C. Condensing Boiler for Space Heating <ul style="list-style-type: none"> • With low return HW temp and functional performance testing 		\$ 0.60 / sqft conditioned space	NA
Additional Path Measures		Incentives	
<i>To complete the package, select at least one other path measure that is not the main measure (for A, B, or C) from the list below.</i>		Gas Heat	Electric Heat
A. Enhanced HVAC Controls <ul style="list-style-type: none"> • Improve wall insulation • Improve roof insulation • Improve window efficiency • Additional window improvement 		<ul style="list-style-type: none"> • Condensing boiler for space heating • Reduced interior lighting wattage • High efficiency HVAC systems \$ 0.10 / sqft conditioned space per measure	\$ 0.15 / sqft conditioned space per measure
B. Building Envelope to WSEC Zone 2 Electric Resistance Heat <ul style="list-style-type: none"> • Additional window improvement • Condensing boiler for space heating 		<ul style="list-style-type: none"> • High efficiency HVAC systems • Enhanced HVAC controls • Reduced interior lighting wattage \$ 0.10 / sqft conditioned space per measure	\$ 0.15 / sqft conditioned space per measure
C. Condensing Boiler for Space Heating <ul style="list-style-type: none"> • Improve wall insulation • Improve roof insulation • Improve window efficiency • HVAC enhanced controls 		<ul style="list-style-type: none"> • Additional window improvement • Reduced interior lighting wattage • High efficiency HVAC systems \$ 0.10 / sqft conditioned space per measure	NA

Enhanced Measures	Incentives	
<i>OPTIONAL: Add enhanced measures to receive additional incentives (for A, B or C).</i>	Gas Heat	Electric Heat
Lighting Measures		
Additional interior lighting wattage reduction	\$ 0.01 / 0.01 watt per sqft reduction / sqft conditioned space	\$ 0.01 / 0.01 watt per sqft reduction / sqft conditioned space
Daylighting controls in gym with skylights	\$ 0.60 / sqft of daylit space	\$ 0.42 / sqft of daylit space
Reduced lighting wattage in parking garages	\$ 0.005 / % reduction / sqft garage space	\$ 0.005 / % reduction / sqft garage space
Building Envelope Measures		
Higher efficiency windows	\$ 0.02 / sqft conditioned space	\$ 0.03 / sqft conditioned space
HVAC Measures		
Higher efficiency air-cooled chiller	\$ 0.03 / 5 % IPLV / sqft conditioned space	\$ 0.03 / 5 % IPLV / sqft conditioned space
Higher efficiency HVAC system (except chiller)	\$ 0.01 / sqft conditioned space	\$ 0.08 / sqft conditioned space
ECM motors for VAV boxes	\$ 0.12 / sqft space served by box	\$ 0.12 / sqft space served by box
Condensing Boiler for domestic hot water heating Elementary School Middle School	\$0.003 / sqft conditioned space; \$0.005 / sqft conditioned space	N/A
Demand Control Ventilation (DCV) in library	\$ 0.90 / sqft of library	\$ 1.25 / sqft of library
Premium efficiency motors	\$ 2 - \$ 20 / HP	\$ 2- \$ 20 / HP
Parking garage ventilation CO control	\$ 600 / HP of controlled fans	\$ 600 / HP of controlled fans