

UW - Capital Projects Office - SustainAbilities Scorecard



Project Name:	Project Description:		PRB / Director Review Dates
Project Number:			
Gross Sq. Footage:			
PM:	Sustainability Goals for Project:		Pre Design
CM:			
Client Department:			
Campus:	Cost Summary:		Design
Project Group:			
Location:			Construction Docs
Kick-Off Meeting with CPO Sustainability Manager:			Construction
Project Start Date:	Projected Annual Use - Electricity (kWh):	Projected Annual Use - Water (gal):	
Occupancy Date:	Projected Annual Use - Gas (BTU/therm):	Projected Annual Use - GHG (CO ₂ e):	

Checkbox instructions: Type the letter 'a' in the yellow boxes to make a check mark appear.
Cost column instructions: Type one of the following letters (n, a, p, s) in the green boxes to indicate cost to the project for each item: 'n' = neutral cost; 'a' = added cost; 'p' = payback; 's' = savings

Categories	Attempted	Achieved	Standard Practices (Required As Applicable)	Cost	Attempted	Achieved	Better Practices	Cost	Attempted	Achieved	Advanced Practices	Cost	Category Totals
Site			Provide a tree protection strategy for the site				Use rainwater sources for irrigation						Attempted Achieved Achieved out of Total Attempted
			Select disease-resistant, pest-resistant, and non-invasive plant species				Provide electric vehicle charging stations						
			Reuse plants and landscape materials				Design landscapes and green roofs to assist in building temperature cooling						
			Plant adaptive landscape materials										
			Plant trees to provide solar shading of buildings and paving to reduce heat islands										
			Test and amend soil to promote soil and plant health										
			Eliminate the use of pesticides										
			Enhance streams, wetlands, and natural habitat areas										
			Minimize impervious paving surfaces										
			Manage storm water run-off to eliminate pollution and route rain leaders to bioswales or rain gardens										
			Located on a previously developed building site										
			Specify exterior lighting fixtures - to have full cut off										
			Optimize building form and orientation to optimize energy efficiency										
			Provide bicycle racks										
	0	0	14 possible		0	0	3 possible		0	0	0 possible		
Energy			Reduce annual net energy consumption by 10% for every 3 year increment based upon 2006 WA State Energy Code				Install materials and equipment with a life cycle cost return on investment of at least 10 years				Install materials and equipment with a life cycle cost return on investment of 5 to 7 years		Attempted Achieved Achieved out of Total Attempted
			<u>Prepare an energy analysis based upon life cycle costing and include O&M: Forecast carbon emissions</u>				Install submeters for plug and process loads, mechanical equipment, and lighting				Design for annual net zero energy usage		
			Install web-based environmental control DDC systems that monitor and manage energy consumption with meters per the FSDG				Specify user occupant equipment with efficiency that is better than energy code requirements				<u>Achieve AIA 2030 Challenge</u>		
			Commission building systems, including meters				Design high performance building envelope: solid wall to glazing ratios and orientation (limit glazing to 30-40%)				Design to connect with smart grid technology		
			Minimize room volumes for reduced air change requirements				Window glazing: Provide glazing for entire assemblies - U values <0.3, visible light transmittance of >0.6 and solar heat gain coefficient of <0.3				Install on site renewable energy systems		
			Air condition critical functions only				Skylights: U=0.60 or lower				Integrate operable window systems with HVAC air flow control		
			Naturally ventilate mechanical and electrical rooms, classrooms, and offices				Exterior Doors: U=0.50 or lower				Design battery free wireless switching for lighting (switches work on kinetic energy of the switching)		
			Install high efficiency transformers and chillers in redundancy to maximize efficiency of equipment				Provide on-site power generation				Design with make up air energy strategies		
			Install high efficiency boilers				Install higher R-value insulation than required by energy code				Install ductless heat pumps		
			Specify premium efficiency motors and variable frequency drives				Install on-demand ventilation controls including night setback temperature controls				Consider untapped Campus-wide resources such as preheating from sewer and chiller lines		
			Incorporate control strategies to limit short cycling of chillers				Pre-heat water using heat recovery strategies				Achieve a reduction in lighting power density by 20% over code requirements		
			Use hot water radiant heating system at glazed exterior wall work areas				Provide lighting occupancy sensors in non-windowed locations and vacancy sensors with manual on/auto off in daylighted spaces				Window coverings: Use dynamic solar controlled automatic shades and blinds with optimum daylighting performance		
			Use 100% outside air economizers for HVAC systems				Consider LED lighting for downlights, spotlights, and task lights				Incorporate one of the following: solar water heater; wind power; heat recovery systems; geothermal; displacement ventilation; thermal storage; evaporative cooling to augment or replace mechanical cooling; fuel cells for uninterruptible power systems		
			Pressure test duct systems to eliminate leakage				Design toward operational budget based budgeting						
			Install high efficiency lighting lamps and high output ballasts				Investigate use of low cost solar hot water systems						
			Window coverings: Block and redirect direct sunlight during occupied times				Reuse heating from ventilation exhaust for hydronic heating						
			Automated daylighting controls: Provide photocell controlled lighting with dimming ballasts within 15 feet of window wall and within 45 degrees of skylight openings				Achieve a reduction in lighting power density by 10% over code requirements						
			Shade glazing during building cooling mode				Incorporate solar photovoltaic (PV) technology						
	0	0	18 possible		0	0	18 possible		0	0	13 possible		
Materials			Specify durable products with minimal maintenance				Design for adaptive reuse and space change of use				Design building systems for disassembly and reuse		Attempted Achieved Achieved out of Total Attempted
			Utilize fly ash to replace 30% of the Portland Cement in concrete				Specify products containing rapidly renewable materials				<u>Select building materials based on the Pharos Program</u>		
			Provide for collection of recyclables				Specify FSC certified wood products				<u>Provide materials with an appropriate materials/services radius per prerequisite 8 of the Living Building Challenge</u>		
			<u>Specify low VOC adhesives, sealants, and sealant primers</u>				Source local materials (500 miles)				<u>Specify materials without persistent bioaccumulative toxic chemicals (PBT)</u>		
			<u>Specify carpet and cushion certified by CRI Green Label Plus program</u>				Reuse existing project materials						
			Specify asbestos-free materials										
			<u>Specify low VOC paints and coatings</u>										
			<u>Specify low VOC adhesive aerosol sprays</u>										
			<u>Specify low VOC hard surface flooring</u>										
			<u>Specify low VOC concrete, wood, bamboo, and cork floor finishes (sealer, stain, and finish)</u>										
			<u>Specify low VOC clear wood finishes, floor coatings, stains, primers, and shellacs</u>										
			<u>Specify low VOC anti-corrosive and anti-rust paints</u>										
			<u>Specify low VOC tile setting adhesives and grout</u>										
			Specify no added urea formaldehyde in wood products										
		<u>Select furnishings that are GREENGUARD certified</u>											

Categories	Standard Practices (Required As Applicable)		Cost	Better Practices		Cost	Advanced Practices		Cost	Category Totals		
	Attempted	Achieved		Attempted	Achieved		Attempted	Achieved		Attempted	Achieved	Achieved
	0	0	17 possible	0	0	5 possible	0	0	4 possible	0	0	#####

Water	Standard Practices (Required As Applicable)		Cost	Better Practices		Cost	Advanced Practices		Cost	Category Totals		
	Attempted	Achieved		Attempted	Achieved		Attempted	Achieved		Attempted	Achieved	Achieved out of Total Attempted
	0	0	6 possible	0	0	2 possible	0	0	2 possible	0	0	#####

Indoor Environment	Standard Practices (Required As Applicable)		Cost	Better Practices		Cost	Advanced Practices		Cost	Category Totals		
	Attempted	Achieved		Attempted	Achieved		Attempted	Achieved		Attempted	Achieved	Achieved out of Total Attempted
	0	0	8 possible	0	0	5 possible	0	0	1 possible	0	0	#####

Beauty and Inspiration	Standard Practices (Required As Applicable)		Cost	Better Practices		Cost	Advanced Practices		Cost	Category Totals		
	Attempted	Achieved		Attempted	Achieved		Attempted	Achieved		Attempted	Achieved	Achieved out of Total Attempted
	0	0	5 possible	0	0	3 possible	0	0	3 possible	0	0	#####

CPO Management Practices	Standard Practices (Required As Applicable)		Cost	Better Practices		Cost	Advanced Practices		Cost	Category Totals		
	Attempted	Achieved		Attempted	Achieved		Attempted	Achieved		Attempted	Achieved	Achieved out of Total Attempted
	0	0	8 possible	0	0	6 possible	0	0	1 possible	0	0	#####

Construction	Standard Practices (Required As Applicable)		Cost	Better Practices		Cost	Advanced Practices		Cost	Category Totals		
	Attempted	Achieved		Attempted	Achieved		Attempted	Achieved		Attempted	Achieved	Achieved out of Total Attempted
	0	0	7 possible	0	0	2 possible	0	0	1 possible	0	0	#####

Scorecard Totals

Standard Practices	
0	Attempted
0	Achieved
83	Possible

Better Practices	
0	Attempted
0	Achieved
44	Possible

Advanced Practices	
0	Attempted
0	Achieved
25	Possible

0%	Attempted out of Total Possible
#####	Achieved out of Total Attempted
0%	Achieved out of Total Possible

0%	Attempted out of Total Possible
#####	Achieved out of Total Attempted
0%	Achieved out of Total Possible

0%	Attempted out of Total Possible
#####	Achieved out of Total Attempted
0%	Achieved out of Total Possible

Innovation	Category		Description	Category Totals		
	Attempted	Achieved		Attempted	Achieved	Achieved out of Total Attempted
	0	0	Total Innovation	0	0	#####