UW - Capital Projects Office - SustainAbilities Scorecard

Project Name:	
Project Number:	
Gross Sq. Footage:	
PM:	
CM:	
Client Department:	
Campus:	
Project Group:	Small Projects Delivery Team (<$300K)
Location:	
Kick-Off Meeting with CPO Sustainability Manager:	
Project Start Date:	
Occupancy Date:	

Project Description:

Sustainability Goals for Project:
Follow Standard Procedure for sustainability process and include any additional sustainabity features.

Cost Summary:

Projected Annual Use - Electricity (kWh):	Projected Annual Use - Water (gal):
Projected Annual Use - Gas (BTU/therm):	Projected Annual Use - GHG (CO_2e):

PRB / Director Review Dates

- Pre Design
- Design
- Construction Docs
- Construction

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		Standard Practices (Required As Applicable)	Attempted	Achieved	Cost	Better Practices	Attempted	Achieved	Cost	Advanced Practices	Attempted	Achieved	Cost	Category Totals: Attempted	Achieved	Achieved out of Total Attempted
Site	1	Provide a tree protection strategy for the site: 015639				Use rainwater sources for irrigation										
	2	Select disease-resistant, pest-resistant, and non-invasive plant species: 329300				Provide electric vehicle charging stations										
	3	Reuse plants & landscape materials: top soil 329300				Design landscapes and green roofs to assist in building temperature cooling										
	4	Plant adaptive landscape materials														
	5	Plant trees to provide solar shading of buildings and paving to reduce heat islands														
	6	Test and amend soil to promote soil and plant health: 329300														
	7	Eliminate the use of pesticides														
	8	Enhance streams, wetlands, and natural habitat areas														
	9	Minimize impervious paving surfaces														
	10	Manage storm water run-off to eliminate pollution and route rain leaders to bioswales or rain gardens														
	11	Located on a previously developed building site														
	12	Specify exterior lighting fixtures - to have full cut off														
	13	Optimize building form and orientation to optimize energy efficiency														
	14	Provide bicycle racks														
			0	0	14 possible		0	0	3 possible		0	0	0 possible	0	0	#####
Energy	15	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						
	16	Prepare an energy analysis based upon life cycle costing and include O&M: Forecast carbon emissions				Install submeters for plug and process loads, mechanical equipment, and lighting				Design for annual net zero energy usage						
	17	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				Achieve AIA 2030 Challenge						
	18	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						
	19	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						
	20	Air condition critical functions only				Skylights: U=0.60 or lower				Integrate operable window systems with HVAC air flow control						
	21	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						
	22	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						
	23	Install high efficiency boilers				Install higher R-value insulation than required by energy code				Install ductless heat pumps						
	24	Specify premium efficiency motors and variable frequency drives: 230513/230915				Install on-demand ventilation controls including night setback temperature controls				Consider untapped Campus-wide resources such as preheating from sewer and chiller lines						
	25	Incorporate control strategies to limit short cycling of chillers: 236419				Pre-heat water using heat recovery strategies				Achieve a reduction in lighting power density by 20% over code requirements						
	26	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						
	27	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						
	28	Pressure test duct systems to eliminate leakage: 233113				Design toward operational budget based budgeting										
	29	Install high efficiency lighting lamps and high output ballasts				Investigate use of low cost solar hot water systems										
	30	Window coverings: Block and redirect direct sunlight during occupied times				Reuse heating from ventilation exhaust for hydronic heating										
	31	Automated daylighting controls: Provide photocell controlled lighting with dimming ballasts within 15 feet of window wall and within 45 degrees of skylight openings: 260923				Achieve a reduction in lighting power density by 10% over code requirements										
	32	Shade glazing during building cooling mode				Incorporate solar photovoltaic (PV) technology										
			0	0	18 possible		0	0	18 possible		0	0	13 possible	0	0	#####
Materials	33	Specify durable products with minimal maintenance				Design for adaptive reuse and space change of use				Design building systems for disassembly and reuse						
	34	Utilize fly ash to replace 30% of the Portland Cement in concrete (20-25%) 034100/034500				Specify products containing rapidly renewable materials				Select building materials based on the Pharos Program						
	35	Provide for collection of recyclables				Specify FSC certified wood products				Provide materials with an appropriate materials/services radius per prerequisite 8 of the Living Building Challenge						
	36	Specify low VOC adhesives, sealants, and sealant primers: YES				Source local materials (500 miles)				Specify materials without persistent bioaccumulative toxic chemicals (PBT)						
	37	Specify carpet and cushion certified by CRI Green Label Plus program				Reuse existing project materials										
	38	Specify asbestos-free materials														
	39	Specify low VOC paints and coatings: 099123														
	40	Specify low VOC adhesive aerosol sprays														
	41	Specify low VOC hard surface flooring: 096516/096519/096900														
	42	Specify low VOC concrete, wood, bamboo, and cork floor finishes (sealer, stain, and finish): 099123														
	43	Specify low VOC clear wood finishes, floor coatings, stains, primers, and shellacs: 099123														
	44	Specify low VOC anti-corrosive and anti-rust paints: 099123														
	45	Specify low VOC tile setting adhesives and grout :093000														
	46	Specify no added urea formaldehyde in wood products: 099123														
	47	Select furnishings that are GREENGUARD certified:														

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Categories		Attempted	Achieved	Standard Practices (Required As Applicable)	Cost	Attempted	Achieved	Better Practices	Cost	Attempted	Achieved	Advanced Practices	Cost	Category Totals Attempted	Achieved	Achieved
	48			Energy Star™ compliant roof; 076100												
	49			Specify materials with high recycled content												
		0	0	17 possible		0	0	5 possible		0	0	4 possible		0	0	#####
Water	50			Increase irrigation efficiency: zone irrigation to respond to specific plant needs				Commission plumbing fixtures				Reuse interior water for exterior applications				
	51			Minimize plumbing fixtures to reduce water consumption: 224000				Implement cooling tower green design				Reuse interior water for interior applications				
	52			Provide electronic sensor faucets and aerators: 224000												
	53			Specify low flow plumbing fixtures: 0.5 GPF urinals 1.6 Prerinse spray valves 2.2 GPM at 60 psi faucets (SPDT 2.5 GPM) 2.5 GPM at 80 psi showerheads												
	54			Install closed loop water system (chilled heating hot water and heat recovery system)												
	55			Use chilled water system to cool equipment (no use of city water)												
		0	0	6 possible		0	0	2 possible		0	0	2 possible		0	0	#####
Indoor Environment	56			Select interior finishes to control brightness ratios, glare, and contrast				Design to use daylighting as a primary light source balancing the daylight across the space in over 50% of occupied space				Provide Ultra-Violet Photocatalytic Oxidation (UVPCO) for removal of airborne particles and VOCs				
	57			Provide ultra quiet transformers near offices and classrooms: (SPDT: Low Voltage 260515)				Install carbon dioxide sensors and monitoring with the HVAC system								
	58			Locate critical task work spaces near daylighted areas				Provide views to the outside for the majority of occupant work areas								
	59			Provide air quality modeling for all new HVAC systems and building air intakes				Negatively exhaust kitchens, restrooms, copy rooms, janitor closets, laundry areas, and chemical storage spaces								
	60			Install walk off mats (10' at primary entrances)				Implement mold resistance strategies for exterior curtain walls, HVAC systems, and materials installations								
	61			Provide air lock vestibules at all air conditioned building entrances and loading dock areas												
	62			Design for flexibility and reuse												
	63			Specify high performance window treatment coverings using an open weave of 5-10%												
		0	0	8 possible		0	0	5 possible		0	0	1 possible		0	0	#####
Beauty and Inspiration	64			Provide a programmatic goal statement of the quality standards and aesthetic aspirations of the project				Provide showers and lockers for bicyclists and joggers				Design to Living Building Challenge rating standards				
	65			Prepare a Historic Resource Addendum for buildings 50+ years old (exterior only)				Display building energy and water usage for users education				Design to include features intended solely for human delight - celebration of culture, spirit, and place				
	66			Provide connections to surrounding buildings and outdoor spaces				Design including elements of environmental features, natural shapes and forms, natural patterns and processes, light and space, and human-nature relationships				Provide educational materials to share successful solutions to motivate others to make change				
	67			Provide spaces that promote social interaction												
	68			Provide a public educational program that identifies the sustainable features of the project												
		0	0	5 possible		0	0	3 possible		0	0	3 possible		0	0	#####
CPO Management Practices	69			Prepare a statement of the life expectancy requirements of the project, by major systems components, determine equipment redundancies, and spare capacities				Implement integrated design processes				Use biomimicry design concepts - incorporating synergistic relationships with the natural environment				
	70			Prepare a preliminary commissioning plan during design				Hire an exterior envelope consultant to field verify air tightness of the building envelope								
	71			Remove hazardous materials from project location				Provide acoustical consulting services for the project								
	72			Perform a post occupancy evaluation for thermal comfort				Provide an occupant user manual to influence energy usage								
	73			Archive the record documents in a centralized building resource center				Perform 10 month post-occupancy commissioning								
	74			Partner with local utility providers and direct assistance programs to maximize sustainable resources				Collect and provide feedback on products that work or fail								
	75			Complete the utility rebates process with local utilities												
	76			Hire a lighting consultant to evaluate effective lighting of key areas and to provide energy efficiency analysis												
		0	0	8 possible		0	0	6 possible		0	0	1 possible		0	0	#####
Construction	77			Encourage carpooling and public transportation for construction workers				Recycle construction waste -75%				Recycle construction waste - 95%				
	78			Require that the jobsite meet the SMACNA IAQ Guidelines for Maintaining Healthy Indoor Air Quality for Occupied Buildings Under Construction, 2nd Edition, Nov 2007, Ch. 3 (HVAC Protection, Source Control, Pathway Interruption, Housekeeping, Scheduling)				Flush out space at substantial completion, prior to occupancy, with 100% outside air, with air volume of 14,000 CF/SF of floor area (temp >60 degrees/humidity <60%). Space can be flushed out during move in once 3,5000 CF/SF has been achieved. Or, complete air testing per US EPA Method (Indoor Air Pollution) PB90200288								
	79			Create and implement commissioning plan: 019100												
	80			Use green cleaning practices during construction												
	81			Install MERV 8 filters during construction, and MERV 13 prior to occupancy: 234100												
	82			Implement erosion and sediment control plan												
	83			Recycle construction waste - 50%: 017400												
		0	0	7 possible		0	0	2 possible		0	0	1 possible		0	0	#####

Scorecard Totals

Standard Practices	
0	Attempted
0	Achieved
83	Possible

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

Better Practices	
0	Attempted
0	Achieved
44	Possible

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

			Category	Description			
Innovation							
	0	0	Total Innovation		0	0	#####

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