


SUSTAINABLE DESIGN

Refer to the LEED Scorecard below. The building is well placed to meet LEED Gold.

				LEED Canada-NC 2009 Annotated Project Scorecard				115651230			
UBC Engineering Student Centre				Revised 7 December 2011							
Denotes credits identified as key project priorities				Denotes UBC Design Guidelines Requirement							
Sustainable Sites				Possible Points: 26							
				Responsibility and Notes:							
Y ? N d/C											
Y				C Prereq 1	Construction Activity Pollution Prevention			Civil and GC			
1				d Credit 1	Site Selection	1		Architecture			
3	2			d Credit 2	Development Density and Community Connectivity	5		LEED Consultant: pending detailed analysis			
		1		d Credit 3	Brownfield Redevelopment	1		Not applicable			
6				d Credit 4.1	Alternative Transportation—Public Transportation Access	6		LEED Consultant			
1				d Credit 4.2	Alternative Transportation—Bicycle Storage and Changing Rooms	1		LEED Consultant			
3				d Credit 4.3	Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles	3		Electrical			
2				d Credit 4.4	Alternative Transportation—Parking Capacity	2		LEED Consultant			
	1			C Credit 5.1	Site Development—Protect or Restore Habitat	1		Analysis pending coordination with C&CP			
	1			d Credit 5.2	Site Development—Maximize Open Space	1		Analysis pending coordination with C&CP			
	1			d Credit 6.1	Stormwater Design—Quantity Control	1		Civil - pending detailed analysis			
	1			d Credit 6.2	Stormwater Design—Quality Control	1		Civil - pending detailed analysis			
	1			C Credit 7.1	Heat Island Effect—Non-roof	1		Landscape - pending detailed analysis			
1				d Credit 7.2	Heat Island Effect—Roof	1		Architecture - compliance through high albedo roofing			
1				d Credit 8	Light Pollution Reduction	1		Electrical			
4 2 4				Water Efficiency				Possible Points: 10			
Y ? N								Responsibility and Notes:			
Y				d Prereq 1	Water Use Reduction—20% Reduction			Mechanical			
2	2			d Credit 1	Water Efficient Landscaping	2 to 4		Landscape - to be confirmed during detailed site design			
					2 Reduce by 50%	2					
					No Potable Water Use or Irrigation	4					
		2		d Credit 2	Innovative Wastewater Technologies	2		Not pursuing			
2		2		d Credit 3	Water Use Reduction	2 to 4		Mechanical			
					2 Reduce by 30%	2					
					1 Reduce by 35%	3					
					1 Reduce by 40%	4					

19 2 14				Energy and Atmosphere				Possible Points: 35			
Y ? N								Responsibility and Notes:			
Y				C Prereq 1	Fundamental Commissioning of Building Energy Systems			Cx Authority			
Y				d Prereq 2	Minimum Energy Performance			Mechanical			
Y				d Prereq 3	Fundamental Refrigerant Management			Mechanical			
11	8			d Credit 1	Optimize Energy Performance (Path 1 - MNECB, New Buildings)	1 to 19		Energy Modeler			
					1 Improve by 25%	1					
					1 Improve by 27%	2					
					1 Improve by 28%	3					
					1 Improve by 30%	4					
					1 Improve by 32%	5					
					1 Improve by 33%	6					
					1 Improve by 35%	7					
					1 Improve by 37%	8					
					1 Improve by 39%	9					
					1 Improve by 40%	10					
					1 Improve by 42%	11					
					improve by 44%	12					
					improve by 45%	13					
					improve by 47%	14					
					improve by 49%	15					
					improve by 50%	16					
					improve by 52%	17					
					improve by 54%	18					
					improve by 56%	19					
1	2	4		d Credit 2	On-Site Renewable Energy	1 to 7		LEED Consultant with UBC Utilities			
					1% Renewable Energy	1					
					3% Renewable Energy	2					
					5% Renewable Energy	3					
					7% Renewable Energy	4					
					9% Renewable Energy	5					
					11% Renewable Energy	6					
					13% Renewable Energy	7					
2				C Credit 3	Enhanced Commissioning	2		Cx Authority			
2				d Credit 4	Enhanced Refrigerant Management	2		Mechanical			
3				C Credit 5	Measurement and Verification	3		M&V Consultant			
		2		C Credit 6	Green Power	2					

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5	2	7	Materials and Resources			Possible Points:	14
Y	?	N					Responsibility and Notes:
Y			d Prereq 1	Storage and Collection of Recyclables			Architecture
		3	C Credit 1.1	Building Reuse—Maintain Existing Walls, Floors, and Roof	1 to 3		Not applicable
				Reuse 55%	1		
				Reuse 75%	2		
				Reuse 95%	3		
		1	C Credit 1.2	Building Reuse—Maintain 50% of Interior Non-Structural Elements	1		Not applicable
2			C Credit 2	Construction Waste Management	1 to 2		Architecture to spec; GC to monitor
				1 50% Recycled or Salvaged	1		Stantec to review strategy with GC
				1 75% Recycled or Salvaged	2		
		2	C Credit 3	Materials Reuse	1 to 2		Not applicable
				Reuse 5%	1		
				Reuse 10%	2		
1	1		C Credit 4	Recycled Content	1 to 2		Architecture to spec; GC to monitor
				1 10% of Content	1		Stantec to review strategy with GC
				1 20% of Content	2		Pending cost impact of fly ash content in concrete
2			C Credit 5	Regional Materials	1 to 2		Architecture to spec; GC to monitor
				1 10% of Materials	1		Stantec to review strategy with GC
				1 20% of Materials	2		
		1	C Credit 6	Rapidly Renewable Materials	1		Not pursuing
	1		C Credit 7	Certified Wood	1		Architecture - pending cost analysis

11	3	1	Indoor Environmental Quality			Possible Points:	15
Y	?	N					Responsibility and Notes:
Y			d Prereq 1	Minimum Indoor Air Quality Performance			Mechanical
Y			d Prereq 2	Environmental Tobacco Smoke (ETS) Control			LEED Consultant
1			d Credit 1	Outdoor Air Delivery Monitoring	1		Mechanical
		1	d Credit 2	Increased Ventilation	1		Not applicable
1			C Credit 3.1	Construction IAQ Management Plan—During Construction	1		GC - Stantec to review strategy
1			C Credit 3.2	Construction IAQ Management Plan—Before Occupancy	1		GC - Stantec to review strategy
1			C Credit 4.1	Low-Emitting Materials—Adhesives and Sealants	1		Architecture to spec; GC to monitor
1			C Credit 4.2	Low-Emitting Materials—Paints and Coatings	1		Architecture to spec; GC to monitor
1			C Credit 4.3	Low-Emitting Materials—Flooring Systems	1		Architecture to spec; GC to monitor
1			C Credit 4.4	Low-Emitting Materials—Composite Wood and Agrifiber Products	1		Architecture to spec; GC to monitor
1			d Credit 5	Indoor Chemical and Pollutant Source Control	1		Mechanical
	1		d Credit 6.1	Controllability of Systems—Lighting	1		Electrical
	1		d Credit 6.2	Controllability of Systems—Thermal Comfort	1		Mechanical
1			d Credit 7.1	Thermal Comfort—Design	1		Mechanical
1			d Credit 7.2	Thermal Comfort—Verification	1		Mechanical
1			d Credit 8.1	Daylight and Views—Daylight	1		Architecture
	1		d Credit 8.2	Daylight and Views—Views	1		Architecture - to be confirmed
6	0	0	Innovation and Design Process			Possible Points:	6
Y	?	N					Responsibility and Notes:
1			d/C Credit 1.1	Innovation in Design: Green Building Education Program	1		LEED Consultant with UBCPT
1			d/C Credit 1.2	Innovation in Design: Resident Composting Plan	1		LEED Consultant with UBC Facilities
1			d/C Credit 1.3	Innovation in Design: Integrated Pest Management or Green Cleaning	1		LEED Consultant with UBC Facilities
1			d/C Credit 1.4	Innovation in Design: Energy Efficiency Engagement Strategy for Occupants	1		LEED Consultant with M&V Consultant
1			d/C Credit 1.5	Innovation in Design: Exemplary Performance MRc2, MRc4, MRc5	1		LEED Consultant
1			d/C Credit 2	LEED Accredited Professional	1		LEED Consultant
2	2	0	Regional Priority Credits			Possible Points:	4
Y	?	N					Responsibility and Notes:
	1		d/C Credit 1.1	Regional Priority: Durable Building	1		Building Envelope Consultant - to be confirmed
1			d/C Credit 2.1	Regional Priority: SSc6.1 Stormwater Design - Quantity	1		LEED Consultant with Civil
1			d/C Credit 2.2	Regional Priority: EAc5 Measurement and Verification	1		LEED Consultant with M&V Consultant
	1		d/C Credit 2.3	Regional Priority: Specific Credit	1		To be confirmed
65	18	27	Total			Possible Points:	110
Certified 40 to 49 points Silver 50 to 59 points Gold 60 to 79 points Platinum 80 to 110							