

UO Housing Central Kitchen and Woodshop

LEED 2009 for New Construction Scorecard - 100% Design Development Summary (AET+LEED Gold)

8 August 2014

Available	Yes	Possible	Likely No	No	Responsibility	Comments
SUSTAINABLE SITES						
0	X				SSp1	Construction Activity Pollution Prevention
1	1				SSc1	Site Selection
5	5				SSc2	Development Density and Community Connectivity
1	1				SSc3	Brownfield Redevelopment
6	6				SSc4.1	Alternative Transportation - Public Transportation Access
1	1				SSc4.2	Alternative Transportation - Bicycle Storage and Changing Rooms
3	3				SSc4.3	Alternative Transportation - Low-Emitting and Fuel-Efficient Vehicles
2	2				SSc4.4	Alternative Transportation - Parking Capacity
1				1	SSc5.1	Site Development - Protect and Restore Habitat
1	1				SSc5.2	Site Development - Maximize Open Space
1				1	SSc6.1	Stormwater Design - Quantity Control
1	1				SSc6.2	Stormwater Design - Quality Control
1				1	SSc7.1	Heat Island Effect - Nonroof
1	1				SSc7.2	Heat Island Effect - Roof
1		1			SSc8	Light Pollution Reduction
26	22	1	0	3	Total Points for Sustainable Sites	
WATER EFFICIENCY						
0	X				WEp1	Water Use Reduction - 20% Reduction
2	2				WEc1.1	Water Efficient Landscaping - 50% Reduction
2				2	WEc1.2	Water Efficient Landscaping - No Potable Water Use for Irrigation
2				2	WEc2	Innovative Wastewater Technologies
2				2	WEc3.1	Water Use Reduction - 30% Reduction
1				1	WEc3.2	Water Use Reduction - 35% Reduction
1				1	WEc3.3	Water Use Reduction - 40% Reduction
10	2	0	0	8	Total Points for Water Efficiency	
ENERGY AND ATMOSPHERE						
0	X				EAp1	Fundamental Commissioning of Building Energy Systems
0	X				EAp2	Minimum Energy Performance
0	X				EAp3	Fundamental Refrigerant Management
1	1				EAc1.1	Optimize Energy Performance - 12% / 8%
1	1				EAc1.2	Optimize Energy Performance - 14% / 10%
1	1				EAc1.3	Optimize Energy Performance - 16% / 12%
1	1				EAc1.4	Optimize Energy Performance - 18% / 14%
1	1				EAc1.5	Optimize Energy Performance - 20% / 16%
1	1				EAc1.6	Optimize Energy Performance - 22% / 18%
1	1				EAc1.7	Optimize Energy Performance - 24% / 20%
1	1				EAc1.8	Optimize Energy Performance - 26% / 22%
1	1				EAc1.9	Optimize Energy Performance - 28% / 24%
1	1				EAc1.10	Optimize Energy Performance - 30% / 26%
1	1				EAc1.11	Optimize Energy Performance - 32% / 28%
1				1	EAc1.12	Optimize Energy Performance - 34% / 30%
1				1	EAc1.13	Optimize Energy Performance - 36% / 32%
1				1	EAc1.14	Optimize Energy Performance - 38% / 34%
1				1	EAc1.15	Optimize Energy Performance - 40% / 36%
1				1	EAc1.16	Optimize Energy Performance - 42% / 38%
1				1	EAc1.17	Optimize Energy Performance - 44% / 40%
1				1	EAc1.18	Optimize Energy Performance - 46% / 42%
1				1	EAc1.19	Optimize Energy Performance - 48%+ / 44%+
1				1	EAc2.1	On-Site Renewable Energy - 1%
1				1	EAc2.2	On-Site Renewable Energy - 3%
1				1	EAc2.3	On-Site Renewable Energy - 5%
1				1	EAc2.4	On-Site Renewable Energy - 7%
1				1	EAc2.5	On-Site Renewable Energy - 9%
1				1	EAc2.6	On-Site Renewable Energy - 11%
1				1	EAc2.7	On-Site Renewable Energy - 13%
2	2				EAc3	Enhanced Commissioning
2				2	EAc4	Enhanced Refrigerant Management
3	3				EAc5	Measurement and Verification
2				2	EAc6	Green Power
35	16	0	2	17	Total Points for Energy and Atmosphere	
COMMENTS						
						Asbestos and lead paint in existing houses
						At edge of required proximity to EmX
						Assumes bio-diesel conversion station
						Native/adaptive vegetation required throughout
						Need 20% vegetated space inside property lines
						Difficult in residential neighborhood
						ECM Package 2: 26% energy unit savings
						ECM Package 3: 37% energy unit savings
						UO cost
						Not achievable with walk-ins, per Cold Zone
						UO cost
						"Buying" a credit; cost not accounted for yet



MATERIALS AND RESOURCES

0	X				MRp1	Storage and Collection of Recyclables	
1				1	MRc1.1a	Building Reuse - Maintain Existing Walls, Floors, Roof, 55%	
1				1	MRc1.1b	Building Reuse - Maintain Existing Walls, Floors, Roof, 75%	
1				1	MRc1.1c	Building Reuse - Maintain Existing Walls, Floors, Roof, 95%	
1				1	MRc1.2	Building Reuse - Maintain Interior Nonstructural Elements	
1	1				MRc2.1	Construction Waste Management - 50%	
1				1	MRc2.2	Construction Waste Management - 75%	House demolition precludes higher diversion rates
1				1	MRc3.1	Materials Reuse - 5%	
1				1	MRc3.2	Materials Reuse - 10%	
1	1				MRc4.1	Recycled Content - 10%	
1				1	MRc4.2	Recycled Content - 20%	
1	1				MRc5.1	Regional Materials - 10%	Wood, concrete
1				1	MRc5.2	Regional Materials - 20%	
1				1	MRc6	Rapidly Renewable Materials	
1	1				MRc7	Certified Wood	
14	4	0	1	9	Total Points for Materials and Resources		

INDOOR ENVIRONMENTAL QUALITY

0	X				IEQp1	Minimum Indoor Air Quality Performance	
0	X				IEQp2	Environmental Tobacco Smoke (ETS) Control	
1	1				IEQc1	Outdoor Air Delivery Monitoring	
1	1				IEQc2	Increased Ventilation	
1	1				IEQc3.1	Indoor Air Quality Management Plan - During Construction	
1	1				IEQc3.2	Indoor Air Quality Management Plan - Before Occupancy	Flush out period assumed
1	1				IEQc4.1	Low Emitting Materials - Adhesives and Sealants	
1			1		IEQc4.2	Low Emitting Materials - Paintings and Coatings	Confirm if epoxy paints can meet requirements
1	1				IEQc4.3	Low Emitting Materials - Flooring Systems	
1	1				IEQc4.4	Low Emitting Materials - Composite Wood and Agrifiber Products	
1			1		IEQc5	Indoor Chemical and Pollutant Source Control	Walk-off mats at entrances; MERV-13 filters
1				1	IEQc6.1	Controllability of Systems - Lighting	
1				1	IEQc6.2	Controllability of Systems - Thermal Comfort	
1	1				IEQc7.1	Thermal Comfort - Design	
1	1				IEQc7.2	Thermal Comfort - Verification	UO to be responsible for verification
1				1	IEQc8.1	Daylight and Views - Daylight	
1		1			IEQc8.2	Daylight and Views - Views	Need to define "regularly occupied spaces"
15	9	3	2	1	Total Points for Indoor Environmental Quality		

INNOVATION IN DESIGN

1	1				IDc1.1	Innovation in Design	Innovation: Integrated Design
1	1				IDc1.2	Innovation in Design	Innovation: Integrated Pest Management
1	1				IDc1.3	Innovation in Design	Innovation: Ongoing Solid Waste Management
1	1				IDc1.4	Innovation in Design	Innovation: Green Cleaning
1				1	IDc1.5	Innovation in Design	Exemplary Performance: TBD
1	1				IDc2	LEED Accredited Professional	
6	5	0	1	0	Total Points for Innovation in Design		

REGIONAL PRIORITY

	1				RPc1.1	SSc3 - Brownfield Redevelopment	
				1	RPc1.2	SSc5.1 - Protect and Restore Habitat	
				1	RPc1.3	WEc2 - Innovative Wastewater Solutions	
				1	RPc1.4	MRc1.1 - Building Reuse	
				1	RPc1.5	MRc3 - Material Reuse	
	1				RPc1.6	MRc7 - Certified Wood	
4	2	0	0	4	Total Points for Regional Priority (4 total allowed from the six available)		

110 60 4 6 42 **Total Points**

Available	Yes	Possible	Likely No	No	<u>Total Points Possible</u>
					<i>Certified: 40-49</i>
					<i>Silver: 50-59</i>
					<i>Gold: 60-79</i>
					<i>Platinum: 80+</i>

LEED Gold Associated Costs (preliminary list, may not be complete):

USGBC Registration/Certification Fees	\$4,000
LEED Plaque	\$660
Design Team Documentation	\$12,500
Bio-diesel fueling station	\$2,350-7,300 for station; plus installation
Fundamental Commissioning	\$22,350; UO base cost
Enhanced Commissioning	\$12,150; UO added cost
LEED energy modeling	to be confirmed
Measurement & Verification	Estimated range of \$15,000-\$20,000
Green Power (purchase of renewable energy credits)	Estimated range of \$1,000-\$3,000
FSC Certified Wood	Estimated around \$22,700
Thermal Comfort- Verification	UO Cost; to be confirmed
Educational Program/Dashboard	UO Cost; to be confirmed

