



# LEED 2009 for Existing Buildings: Operations & Maintenance

## Project Checklist

CSU Summit Hall

Certified 8.11.14

14	0	12	<b>Sustainable Sites</b>	<b>Possible Points: 26</b>
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Y	?	N			
		4	Credit 1 LEED Certified Design and Construction	4	<div style="border: 1px solid black; padding: 5px;"> <p>Notes:</p> <p>50% of Summit Hall employees use alternative means to commuting to work (as opposed to single occupancy vehicles)</p> <p>A site in Pingree Park has been dedicated to Summit Hall to be preserved indefinitely</p> <p>Stormwater management at CSU complies with credit requirements for infiltration, collection, and reuse of runoff from 32% of precipitation</p> <p>Hardscape is cleaned annually and 50% of area has a SRI value of 35</p> </div>
		1	Credit 2 Building Exterior and Hardscape Management Plan	1	
		1	Credit 3 Integrated Pest Management, Erosion Control, and Landscape Management Plan	1	
11		4	Credit 4 Alternative Commuting Transportation	3 to 15	
			<input type="checkbox"/> Reduce by 10%	3	
			<input type="checkbox"/> Reduce by 13.75%	4	
			<input type="checkbox"/> Reduce by 17.5%	5	
			<input type="checkbox"/> Reduce by 21.25%	6	
			<input type="checkbox"/> Reduce by 25%	7	
			<input type="checkbox"/> Reduce by 31.25%	8	
			<input type="checkbox"/> Reduce by 37.5%	9	
			<input type="checkbox"/> Reduce by 43.75%	10	
			<input checked="" type="checkbox"/> Reduce by 50%	11	
			<input type="checkbox"/> Reduce by 56.25%	12	
			<input type="checkbox"/> Reduce by 62.5%	13	
			<input type="checkbox"/> Reduce by 68.75%	14	
			<input type="checkbox"/> Reduce by 75%	15	
1			Credit 5 Site Development—Protect or Restore Open Habitat	1	
1			Credit 6 Stormwater Quantity Control	1	
1			Credit 7.1 Heat Island Reduction—Non-Roof	1	
		1	Credit 7.2 Heat Island Reduction—Roof	1	
		1	Credit 8 Light Pollution Reduction	1	

6	0	8	<b>Water Efficiency</b>	<b>Possible Points: 14</b>
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Y	?	N			
Y			Prereq 1 Minimum Indoor Plumbing Fixture and Fitting Efficiency		<div style="border: 1px solid black; padding: 5px;"> <p>Notes:</p> </div>
		2	Credit 1 Water Performance Measurement	1 to 2	
			<input type="checkbox"/> Whole building metering	1	
			<input type="checkbox"/> Submetering	2	

5			Credit 2	Additional Indoor Plumbing Fixture and Fitting Efficiency	1 to 5	In January 2013, low-flow (1.5 gpm) aerators and low-flow (1.25 gpm) showerheads were installed. Summit Hall uses 45% less water than a baseline building.
				<input type="checkbox"/> Reduce by 10%	1	
				<input type="checkbox"/> Reduce by 15%	2	
				<input type="checkbox"/> Reduce by 20%	3	
				<input type="checkbox"/> Reduce by 25%	4	
				<input checked="" type="checkbox"/> Reduce by 30%	5	
		5	Credit 3	Water Efficient Landscaping	1 to 5	
				<input type="checkbox"/> Reduce by 50%	1	
				<input type="checkbox"/> Reduce by 62.5%	2	
				<input type="checkbox"/> Reduce by 75%	3	
1		1	Credit 4	Cooling Tower Water Management	1 to 2	
				<input checked="" type="checkbox"/> Chemical Management	1	
				<input type="checkbox"/> Non-Potable Water Source Use	2	

20	0	15	<b>Energy and Atmosphere</b>	Possible Points: 35
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	Y	?	N				Notes:
	Y			Prereq 1	Energy Efficiency Best Management Practices		
	Y			Prereq 2	Minimum Energy Efficiency Performance		
	Y			Prereq 3	Fundamental Refrigerant Management		
13			5	Credit 1	Optimize Energy Efficiency Performance	1 to 18	Achieved an ENERGY STAR rating of 85
					<input type="checkbox"/> ENERGY STAR Rating of 71 or 21st Percentile Above National Median	1	
					<input type="checkbox"/> ENERGY STAR Rating of 73 or 23rd Percentile Above National Median	2	
					<input type="checkbox"/> ENERGY STAR Rating of 74 or 24th Percentile Above National Median	3	
					<input type="checkbox"/> ENERGY STAR Rating of 75 or 25th Percentile Above National Median	4	
					<input type="checkbox"/> ENERGY STAR Rating of 76 or 26th Percentile Above National Median	5	
					<input type="checkbox"/> ENERGY STAR Rating of 77 or 27th Percentile Above National Median	6	
					<input type="checkbox"/> ENERGY STAR Rating of 78 or 28th Percentile Above National Median	7	
					<input type="checkbox"/> ENERGY STAR Rating of 79 or 29th Percentile Above National Median	8	
					<input type="checkbox"/> ENERGY STAR Rating of 80 or 30th Percentile Above National Median	9	
					<input type="checkbox"/> ENERGY STAR Rating of 81 or 31st Percentile Above National Median	10	
					<input type="checkbox"/> ENERGY STAR Rating of 82 or 32nd Percentile Above National Median	11	
					<input type="checkbox"/> ENERGY STAR Rating of 83 or 33rd Percentile Above National Median	12	
					<input checked="" type="checkbox"/> ENERGY STAR Rating of 85 or 35th Percentile Above National Median	13	
					<input type="checkbox"/> ENERGY STAR Rating of 87 or 37th Percentile Above National Median	14	
					<input type="checkbox"/> ENERGY STAR Rating of 89 or 39th Percentile Above National Median	15	
					<input type="checkbox"/> ENERGY STAR Rating of 91 or 41st Percentile Above National Median	16	
					<input type="checkbox"/> ENERGY STAR Rating of 93 or 43rd Percentile Above National Median	17	
					<input type="checkbox"/> ENERGY STAR Rating of 95+ or 45th+ Percentile Above National Median	18	
			2	Credit 2.1	Existing Building Commissioning—Investigation and Analysis	2	

		2	Credit 2.2 Existing Building Commissioning—Implementation	2	Carbon credits were purchased to offset 100% of total building energy use
		2	Credit 2.3 Existing Building Commissioning—Ongoing Commissioning	2	
		1	Credit 3.1 Performance Measurement—Building Automation System	1	
		2	Credit 3.2 Performance Measurement—System-Level Metering	1 to 2	
			<input type="checkbox"/> 40% Metered	1	
			<input type="checkbox"/> 80% Metered	2	
6			Credit 4 On-site and Off-site Renewable Energy	1 to 6	
			<input type="checkbox"/> 3% On-site or 25% Off-site Renewable Energy	1	
			<input type="checkbox"/> 4.5% On-site or 37.5% Off-site Renewable Energy	2	
			<input type="checkbox"/> 6% On-site or 50% Off-site Renewable Energy	3	
			<input type="checkbox"/> 7.5% On-site or 62.5% Off-site Renewable Energy	4	
			<input type="checkbox"/> 9% On-site or 75% Off-site Renewable Energy	5	
			<input type="checkbox"/> 12% On-site or 100% Off-site Renewable Energy	6	
		1	Credit 5 Enhanced Refrigerant Management	1	
1			Credit 6 Emissions Reduction Reporting	1	
					Greenhouse gas emissions generated by the project building and associated grounds during the performance period were tracked, recorded and reported

5	0	5	<b>Materials and Resources</b>	<b>Possible Points: 10</b>
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Y	?	N			
Y			Prereq 1 Sustainable Purchasing Policy		
Y			Prereq 2 Solid Waste Management Policy		
1			Credit 1 Sustainable Purchasing—Ongoing Consumables	1	Notes:  72% of purchases meet sustainability criteria 100% of electric-powered equipment purchased meet ENERGY STAR label  100% of lamps purchased contain reduced mercury  Waste stream audit conducted during performance period  100% of durable goods are diverted from landfill (Surplus)
1		1	Credit 2 Sustainable Purchasing—Durable Goods	1 to 2	
			<input checked="" type="checkbox"/> 40% of Electric-Powered Equipment	1	
			<input type="checkbox"/> 40% of Furniture	1	
		1	Credit 3 Sustainable Purchasing—Facility Alterations and Additions	1	
1			Credit 4 Sustainable Purchasing—Reduced Mercury in Lamps	1	
		1	Credit 5 Sustainable Purchasing—Food	1	
1			Credit 6 Solid Waste Management—Waste Stream Audit	1	
		1	Credit 7 Solid Waste Management—Ongoing Consumables	1	
1			Credit 8 Solid Waste Management—Durable Goods	1	
		1	Credit 9 Solid Waste Management—Facility Alterations and Additions	1	

7	0	8	<b>Indoor Environmental Quality</b>	<b>Possible Points: 15</b>
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Y	?	N		
Y			Prereq 1 Minimum IAQ Performance	
Y			Prereq 2 Environmental Tobacco Smoke (ETS) Control	
Y			Prereq 3 Green Cleaning Policy	
1			Credit 1.1 Indoor Air Quality Best Management Practices—Indoor Air Quality Management Program	1
1			Credit 1.2 Indoor Air Quality Best Management Practices—Outdoor Air Delivery Monitoring	1
1			Credit 1.3 Indoor Air Quality Best Management Practices—Increased Ventilation	1
1			Credit 1.4 Indoor Air Quality Best Management Practices—Reduce Particulates in Air Distribution	1
1			Credit 1.5 Indoor Air Quality Best Management Practices—Facility Alterations and Additions	1
1			Credit 2.1 Occupant Comfort—Occupant Survey	1
1			Credit 2.2 Controllability of Systems—Lighting	1
1			Credit 2.3 Occupant Comfort—Thermal Comfort Monitoring	1
1			Credit 2.4 Daylight and Views	1
1			Credit 3.1 Green Cleaning—High Performance Cleaning Program	1
1			Credit 3.2 Green Cleaning—Custodial Effectiveness Assessment	1
1			Credit 3.3 Green Cleaning—Purchase of Sustainable Cleaning Products and Materials	1
1			Credit 3.4 Green Cleaning—Sustainable Cleaning Equipment	1
1			Credit 3.5 Green Cleaning—Indoor Chemical and Pollutant Source Control	1
1			Credit 3.6 Green Cleaning—Indoor Integrated Pest Management	1

Notes:

An IAQ plan has been developed and is in place for future alterations

Occupancy survey was conducted to understand occupant comfort and satisfaction based on thermal comfort, acoustics, indoor air quality, lighting, and building cleanliness

74% of all living, work, and common spaces have a direct line of sight to the outdoor environment (windows)

Custodial staffing and training procedures are in compliance with credit requirements

APPA audit conducted with resulting score of 2.5

56% of all cleaning materials and products purchased meet sustainability criteria

30% of cleaning equipment purchased meets sustainability criteria

5	0	1	<b>Innovation in Operations</b>	<b>Possible Points: 6</b>
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Y	?	N
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1			Credit 1.1 Innovation in Operations: Occupant Engagement Program	1
1			Credit 1.2 Innovation in Operations: EP 100% MRC2.1	1
1			Credit 1.3 Innovation in Operations: EP 100% MRC8	1
1			Credit 1.4 Innovation in Operations: EP 45% Water Use Reduction	1
1			Credit 2 LEED Accredited Professional	1
		1	Credit 3 Documenting Sustainable Building Cost Impacts	1

Notes:  
The Green Warrior campaign

4	0	0	<b>Regional Priority Credits</b>	<b>Possible Points: 4</b>
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Y	?	N
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1			Credit 1.1 Regional Priority: Off-site Renewable Energy	1
1			Credit 1.2 Regional Priority: Alternative Commuting Transportation	1
1			Credit 1.3 Regional Priority: Stormwater Quantity Control	1
1			Credit 1.4 Regional Priority: Add'l Indoor Plumbing Fixture & Fitting Efficiency	1

Notes:

61	0	49	<b>Total</b>	<b>Possible Points: 110</b>
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Certified 40 to 49 points   Silver 50 to 59 points   Gold 60 to 79 points   Platinum 80 to 110