



SUMMARY OF CHANGES MADE IN CANADIAN ADAPTATION OF USGBC'S LEED 2009 FOR EXISTING BUILDINGS: OPERATIONS AND MAINTENANCE RATING SYSTEM

LEED rating systems are adapted by the Canada Green Building Council under license from the US Green Building Council. The following table summarizes the changes that were incorporated into *LEED Canada for Existing Buildings: Operations and Maintenance 2009* in adapting the USGBC's *LEED 2009 for Existing Buildings: Operations and Maintenance*.

Credit / Prerequisite	Change from USGBC
SSc3: Integrated Pest Management, Erosion Control and Landscape Management Plan	<ul style="list-style-type: none"> I. Included Society for Organic Urban Land Care's Organic Land Care Standard (SOUL). II. Added LEED Canada NC requirements for erosion and sedimentation control. III. Added minimum threshold of 95% for landscape waste diversion. IV. Added requirement for dedicated area for collection of landscape waste.
SSc4: Alternative Commuting Transportation	<ul style="list-style-type: none"> I. Included Requirement to conduct occupant survey. II. EcoEnergy Program performance level of 6.5L/100km used for fuel-efficient vehicles.
SSc5: Site Development: Protect or Restore Open Habitat	<ul style="list-style-type: none"> I. The use of offsite land to comply with the credit is contingent upon the following requirements: <ul style="list-style-type: none"> i. Area must meet Canadian Land Trust Alliance member land trust requirements. ii. 5 year contract. iii. Half of on-site soft landscaping meets credit requirements. iv. Maximum 800 km distance to project site. II. Clarify that vegetated roofs can contribute towards meeting the credit requirements.
SSc7.1: Heat Island Reduction – Non-Roof	<ul style="list-style-type: none"> I. Added Option for zero lot line projects that meet SSc7.2 requirement.
SSc8: Light Pollution Reduction	<ul style="list-style-type: none"> I. For Exterior and Site Lighting, added requirement for full cutoff classification for luminaries with more than 3,500 initial lamp lumens.
WEp1: Water Metering and Minimum Indoor Plumbing Fixture and Fitting Efficiency	<ul style="list-style-type: none"> I. Added water meter requirement II. Changed plumbing system substantial completion date to 1996
WEc1: Water Performance Measurement	<ul style="list-style-type: none"> I. Points given for system level metering covering 40% and 80% of total annual water consumption II. 80% of reclaimed water use must be metered to count towards achieving credit requirements.
EAp1: Energy Efficiency Best Management Practices — Planning, Documentation and Opportunity Assessment	<ul style="list-style-type: none"> I. Energy audit must be certified by a professional engineer and completed within the performance period.

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EAp3: Refrigerant Management -Ozone Protection	<p>I. For Base Buildings</p> <ul style="list-style-type: none"> • Only phase out plan is acceptable, not economic feasibility. • Phase out completion is 5 years after certification, or 3 years prior to legislation. • Annual leakage must be reduced to 1% or less. <p>II. Campus compliance path:</p> <ul style="list-style-type: none"> • Phase out completed by 2015. • Annual leakage must be reduced to 1% or less. and, • CFC based chillers are used as lag chillers and do not deliver more than 25% of total cooling from the plant.
EAc3.1: Performance Measurement -Building Automation System	I. Included specific Building Automation System (BAS) requirements.
EAc4: On-Site and Off-Site Renewable Energy	I. Included Environmental Choice Ecologo program.
EAc6: Emissions Reduction Reporting	<p>I. Added requirement to use a GHG registry with corresponding protocol.</p> <p>II. Included reporting of nuclear waste, nitrous oxide, and methane.</p>
MRC1: Sustainable Purchasing - Ongoing Consumables	<p>I. Regional Material requirements modified as follows:</p> <ul style="list-style-type: none"> • Final manufacturing location within 800km from project site, and • Product or component did not leave 800km radius surrounding location of final manufacture.
MRC2.2: Sustainable Purchasing - Durable Goods	<p>I. Regional Material requirements modified as follows:</p> <ul style="list-style-type: none"> • Final manufacturing location within 800km from project site, and • Product or component did not leave 800km radius surrounding location of final manufacture.
MRC3: Sustainable Purchasing - Facility Alterations and Additions	<p>I. Regional Material requirements modified as follows:</p> <ul style="list-style-type: none"> • Final manufacturing location within 800km from project site, and • Product or component did not leave 800km radius surrounding location of final manufacture.
MRC4: Sustainable Purchasing - Reduced Mercury in Lamps	I. Added Requirement to collect and adequately dispose of discarded fluorescent lamps, including those that contain mercury and other hazardous waste.
MRC5: Sustainable Purchasing - Food	I. Included Canadian Food Inspection Agency Organic Products Regulation.
MRC7: Solid Waste Management - Ongoing Consumables	I. Added Requirement to collect and adequately dispose of discarded fluorescent lamps, including those that contain mercury and other hazardous waste.
EQp2 Environmental Tobacco Smoke (ETS) Control	I. Option added for Multi Unit Residential Buildings (MURBs) that cannot meet the Normalized Leakage Area target.
EQc1.2: IAQ Best Management Practices - Outdoor Air Delivery Monitoring	I. Modified calibration interval requirement to either the manufacturer's recommended interval or annually – whichever is shorter".
EQc1.4: IAQ Best Management Practices: Reduce Particulates in Air Distribution	I. Added exemption from MERV 13 filtration for smaller HVAC units (≤ 283 L/s).

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EQc1.5: IAQ Best Management Practices – IAQ Management for Facility Alterations and Additions	I. Added option to use IAQ testing as an alternate to flush-out.
EQc3.1: Green Cleaning - High-Performance Cleaning Program	I. Added requirement for regular retraining in green cleaning techniques and products.
EQc3.3: Green Cleaning - Purchase of Sustainable Cleaning Products and Materials	I. Added requirement that 90% of disposable janitorial products must meet criteria. II. Added requirement for random audit to confirm use of purchased sustainable cleaning products and materials.