

BOMA BEST Sustainable Buildings 3.0 Light Industrial and Open air Retail



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BUILDING INFORMATION

- 1. Is the building being recertified?
 - Yes
 - No
- 2. In what era was the building constructed?
 - Prior to 1900
 - 1900-1950
 - 1951-1989
 - 1990-2004
 - After 2005
- 3. What type of building is it?
 - Light Industrial
 - Open Air Retail
- 4. (NEST Light Industrial): What is the primary function of the property? Select the building type representative of 51% of the space use.
 - Manufacturing/Industrial Plant: A facility used for the conversion, fabrication and/or assembly of raw or partly wrought materials into products/goods.
 - Warehouse (refrigerated or non-refrigerated): A facility primarily used for the storage and/or distribution of materials, goods, and merchandise.
 - Distribution Centre: Refers to unrefrigerated buildings that are used for the temporary storage and redistribution of goods, manufactured products, merchandise or raw materials.
 - Other industrial use

(NEST Open Air Retails): How many commercial/retail units are in the facility?

- 5. Please choose the preferred unit of area for building measurements.
 - Square metres
 - Square feet
- 6. What is the building's interior floor area?

Floor area measurements have many different names (Gross Measured Area, Interior Gross Area, and Exterior Gross Area). For the purposes of benchmarking energy and water in BOMA BEST, the term Gross Floor Area (GFA) will be used to refer to the floor measurement that includes the following areas:

- Lobbies
- Tenant Areas
- Common Areas
- Meeting Rooms
- Break Rooms
- Atriums (ground floor only)
- Restrooms
- Elevator Shafts
- Stairwells
- Mechanical Equipment Areas



- Basements
- Storage Rooms

The following spaces should not be included in this measurement:

- Exterior spaces
- Balconies
- Patios
- Exterior Loading Docks
- Driveways
- Covered Walkways
- Outdoor Courts (Tennis, Basketball, etc.)
- The interstitial plenum space between floors (which house pipes and ventilation)
- Crawl Spaces
- Parking (indoor or outdoor)
- 7. Does the Gross Floor Area provided include any areas that should have been excluded? Please list the areas that should have been excluded. You will not be able to receive points for your Energy Star Score or Water Use Intensity unless these spaces are excluded.
- 8. What measurement standard was used to obtain the Gross Floor Area? (NEST for Light Industrial)
 - BOMA 2004, 2009 or 2012 Industrial Standard (Method A) This measurement includes the parking areas. These must be excluded from the values entered here.
 - BOMA 2009 Gross Area Standard This measurement includes the parking areas. These must be excluded from the values entered here.
 - Other that provides an accurate measurement of the required spaces.

If None is selected, indicate how the floor area is known.

(NEST for Open Air Retail)

- BOMA 2010 Retail Standard This measurement includes the parking areas. These must be excluded from the values entered here.
- BOMA 2009 Gross Area Standard This measurement includes the parking areas. These must be excluded from the values entered here.
- Other that provides an accurate measurement of the required spaces

If None is selected, indicate how the floor area is known.

- 9. Where is the building located?
 - Central Business District (CBD)
 - Suburban Area
 - Rural Area
- 10. How many floors are there?
 - Above ground
 - Below ground

Enter the number of floors for each in the space provided.



- 11. Is there mechanically ventilated underground parking?
 - Yes
 - No

Enter number of levels.

- 12. Is the building owner-occupied or leased?
 - Owner-occupied
 - Owner-occupied and leased
 - Leased (1-5 tenants)
 - Leased (5+ tenants)
 - Other
- 13. What was the occupancy rate over the past 12 months (in percentage)?

Occupancy Rate refers to the amount of leasable area that is leased divided by the total leasable area in the building (i.e., it is the percentage of the total rentable space that has been occupied)

- 14. What are the building hours of operation?
 - Monday to Friday:
 - Saturday:
 - Sunday:
- 15. What types of other use are present and what are their respective areas?
 - Restaurant/food court area
 - Hotel
 - Gym
 - Other

Enter area in the unit previously selected.

- 16. Is all the major heating, ventilation and air-conditioning (HVAC) equipment owned, managed and maintained solely by tenants?
 - Yes
 - No
 - Not sure

This question determines whether certain questions will be visible in the survey based on their applicability. Only select "Yes" if 100% of the major HVAC equipment is owned, managed and maintained solely by the tenants, such as pumps, fans, motors, rooftop packages, filters, etc. If any equipment is owned, managed or maintained by the property owner or manager, select "No". If you are unsure, select "Not sure".

- 17. Is waste managed solely by tenants?
 - Yes
 - No
 - Not sure

This question determines whether certain questions will be visible in the survey based on their applicability. Only select "Yes" if 100% of the waste management (implementation of recycling programs, collection of waste/recycling/compost, etc.) in the building is solely the responsibility of the tenants. If any steps or process of



the waste management program is managed or maintained by the property owner or manager, select "No". If you are unsure, select "Not sure".

18. Provide a brief general description of the building.

Provide a short description of the building. Note massing, placement on the lot, landscaping, any significant physical, historical or functional characteristics, and any significant renovations or retrofits within the last five (5) years.





ENERGY

BEST Practice 1	Is a F	Preventative Maintenance Program in place at the building?
Explanation & Evaluation	dem Desc com repla Prev unde and Requ and Dem last f conc Addi oper	question is a BEST Practice and is required for all levels of certification. Documentation onstrating this BEST Practice must be uploaded. pription: Preventative maintenance recognizes that certain systems and their ponents require scheduled periodic maintenance, as well as overhauling or accement after a certain age, at certain intervals, or due to specific causes. The entative Maintenance Program is a systematic approach that outlines what equipment er the landlord's control must be reviewed, the corrective action that must be taken how frequently this must occur. pirements: The Preventative Maintenance Program must outline when preventative corrective maintenance is required to be performed on the building's equipment. Constration of implementation is required. The program must have been updated in the five (5) years. Consult the BEST Practice Guidelines for a complete list of requirements erning this BEST Practice. Itional Information: Preventative maintenance involves inspecting and testing units for ation and faults. Corrective maintenance involves repairing a unit to bring it back to ability at its most efficient capability.
Scoring	Yes	Certification is permitted
	No	Certification is not permitted



BEST Practice 2	Has an ASHRAE Level 1 Energ	y Assessment been conducted in the last five (5) years?	
Explanation & Evaluation	This question is a BEST Practice and is required for all levels of certification. Documentation demonstrating this BEST Practice must be uploaded.		
	<u>Description:</u> An ASHRAE Level 1 assessment refers to a simple audit of the building's configuration and energy systems. If focuses on the identification of the potential for energy efficiency improvements.		
	Requirements: An ASHRAE Le building in the last five (5) yea	vel 1 Energy Assessment must have been conducted on the rs.	
	The Energy Assessment repor	t must contain the following elements:	
	 Analysis of energy consumption through monthly utility bill review and benchmarking. For benchmarking purposes utility bills must cover a minimum of 12 months of continuous data. If major renovations or retrofits to the building systems have occurred, use data after the time of major renovation, if possible. Major renovations include upgrades to mechanical systems, upgrades to building envelope systems and electric system upgrades including procurement of new lighting for more than 50% of the building's lighting fixtures. 		
	List major energy-consuming equipment.		
	 Prioritized list of proposed low-cost and no cost energy conserving measures (ECMs) to enable greater energy efficiency. 		
	 Provision of estimates of financial savings the building owner will realize as a result of investing in ECMs. At a minimum, savings and cost estimates should be based on a generalized understanding of the systems. 		
	Data used for this assessment must represent complete building data for all building spaces and uses.		
	Consult the <u>BEST Practice Guidelines</u> for a complete list of requirements concerning this BEST Practice.		
	Additional Information: The BOMA-Accepted Equivalent is available for buildings where 75% or more of the building's energy is purchased directly by tenants or if the building has been occupied for fewer than two (2) years.		
Scoring	Yes	Certification is permitted	
	BOMA Accepted Equivalent	Certification is permitted	
	No	Certification is not permitted	



BEST Practice 3	Is an Energy Management Plan in place at the building?		
Explanation & Evaluation	This question is a BEST Practice and is required for all levels of certification. Documentation demonstrating this BEST Practice must be uploaded.		
		is the continuous process of managing behavioral, ge to improve the building's energy performance.	
	Requirements: The Energy Managlast three (3) years.	gement Plan must have been reviewed and updated in the	
	,	gy Conservation Measures (ECM) for the building (such as it, as available). For each initiative, identify the following:	
	Whether a particular EC	M will be pursued or not;	
	The person responsible	for the implementation of the ECM;	
	The budget associated v	vith the ECM; and	
	A timeline for completion.		
	If a particular measure will not be followed-up for the building, indicate why this is the case.		
	Although demonstration of implementation is preferable, it is not necessary. The plan can be common to a portfolio or campus of buildings however building-specific information is required.		
	Consult the <u>BEST Practice Guidelines</u> for a complete list of requirements concerning this BEST Practice.		
	Additional Information: In the case of Recertification, building managers are expected to demonstrate which ECMs listed in the previous Reduction Management Plan have been implemented since certification.		
	The BOMA-Accepted Equivalent is available for buildings that have been occupied for fewer than two (2) years.		
Scoring	Yes	Certification is permitted	
	BOMA Accepted Equivalent Certification is permitted		
	No Certification is not permitted		



BEST Practice 4	Is an energy reduction target in place at the building?		
Explanation & Evaluation	This question is a BEST Practice and is required for all levels of certification. Documentation demonstrating this BEST Practice must be uploaded.		
	<u>Description:</u> Clear, long-term outcome-oriented targets can help shape expectations and create the conditions in which all actors have the confidence to develop solutions to common problems. By establishing targets and indicators, progress can be assessed, and appropriate actions taken.		
	Requirements: An energy reduct completion.	tion target must be identified along with a timeframe for	
	Targets must be put into writing, signed by senior management and reviewed annually, as well as be integrated into the Energy Management Plan.		
	Consult the <u>BEST Practice Guidelines</u> for a complete list of requirements concerning this BEST Practice.		
	Additional Information: The energy reduction target can be established to encompass either all utilities as a whole or divided into each type (electricity, gas) of utility under the property owner's control.		
	In the case of Recertification, building managers are expected to demonstrate what targets have been reached since certification.		
	The BOMA-Accepted Equivalent is available for buildings where 75% or more of the building's energy is purchased directly by tenants.		
Scoring	Yes Certification is permitted		
	BOMA Accepted Equivalent Certification is permitted		
	No Certification is not permitted		



WATER

BEST Practice 5	Has a Water Assessment been condu	cted in the last five (5) years?	
Explanation & Evaluation	This question is a BEST Practice and is required for all levels of certification. Documentation demonstrating this BEST Practice must be uploaded.		
	l	rs to a simple audit of the building's configuration and tification of potential water conserving measures.	
	Requirements: A water assessment n (5) years.	nust have been conducted on the building in the last five	
	The water assessment report must co	ntain the following elements:	
	Analysis of water consumption through monthly utility bill analysis and benchmarking. For benchmarking purposes utility bills must cover a minimum of 12 months of continuous data.		
	·	of water-consuming equipment.	
	 Prioritized list of proposed low-cost and no cost water conserving measures (WCMs) to enable greater water efficiency. 		
	 Provision of estimates of financial savings the building owner will realize as a result of investing in WCM. 		
	Consult the <u>BEST Practice Guidelines</u> for a complete list of requirements concerning this BEST Practice.		
	Additional Information: The BOMA-Accepted Equivalent is available for buildings where 75% or more of the building's energy is purchased directly by tenants or if the building has been occupied for fewer than two (2) years.		
Scoring	Yes	Certification is permitted	
	BOMA Accepted Equivalent Certification is permitted No Certification is not permitted		



BEST Practice 6	Is a Water Management Plan in pla	ice at the building?	
Explanation & Evaluation	This question is a BEST Practice and is required for all levels of certification. Documentation demonstrating this BEST Practice must be uploaded.		
		the continuous process of managing behavioural, eto improve the building's water performance.	
	Requirements: The Water Management Plan must have been reviewed and updated in the last three (3) years. Create a plan that identifies Water Conservation Measures (WCM) for the building (such as those provided in the Water Assessment, as available). For each initiative, identify whether a particular WCM will be pursued, the person responsible for its implementation, the associated budget and a timeline for completion. If a particular measure will not be followed-up for the building, indicate why this is the case.		
	Although demonstration of implementation is preferable, it is not necessary. The plan can be common to a portfolio or campus of buildings however building-specific information is required.		
	Consult the <u>BEST Practice Guidelines</u> for a complete list of requirements concerning this BEST Practice.		
	Additional Information: In the case of Recertification, building managers are expected to demonstrate which WCMs listed in the previous Water Management Plan have been implemented since certification.		
	The BOMA-Accepted Equivalent is available for buildings that have been occupied for fewer than two (2) years.		
Scoring	Yes Certification is permitted		
	BOMA Accepted Equivalent Certification is permitted		
	No Certification is not permitted		



AIR

BEST Practice 7	Is an Indoor Air Quality Moni	toring Plan in place at the building?	
Explanation & Evaluation	This question is a BEST Practice and is required for all levels of certification. Documentation demonstrating this BEST Practice must be uploaded.		
	<u>Description:</u> Indoor Air Quality (IAQ) is achieved through the selection of appropriate a achievable air quality goals, regular surveillance and testing to verify HVAC performance and hygiene, efficient and effective procedures for addressing occupant IAQ concernstraining for all property management and maintenance personnel.		
	Requirements: The Air Qualit	y Monitoring Plan must contain the following elements:	
	parameters such as	e the IAQ goals for the building including targets for air quality carbon dioxide, carbon monoxide, temperature, relative tile organic compounds and other known contaminants of	
	hygiene (cleanliness	VAC inspection and maintenance tasks to ensure good , no standing water, etc.).	
	 Identify HVAC systems that will impact the IAQ goals listed above. Create a preventative maintenance schedule for these systems (may overlap with the Preventative Maintenance Program BEST Practice). Equipment and systems should be checked at least annually. Develop procedures for responding to occupant IAQ concerns, including 		
	identifying key personnel and their responsibilities, contact information, documentation, and follow-up plan (may overlap with Occupant Service Request Program BEST Practice).		
	 Identify training requirements for property management and building maintenance staff relating to IAQ. and Review the plan annually and update as necessary. 		
	Although demonstration of implementation is preferable, it is not necessary. The plan can be common to a portfolio or campus of buildings however building-specific information is required.		
	Consult the <u>BEST Practice Guidelines</u> for a complete list of requirements concerning this BEST Practice.		
	Additional Information:		
	The BOMA-Accepted Equivalent is available for buildings where ventilation systems are owned and maintained exclusively by the tenants. In these cases, the building owner or manager must provide tenants with an Indoor Air Quality Monitoring Plan for their use.		
	Refer to the USEPA I-BEAM fo	r more information on developing an <u>IAQ Monitoring Plan</u> .	
Scoring	Yes	Certification is permitted	
	BOMA Accepted Equivalent	Certification is permitted	
	No	Certification is not permitted	



COMFORT

BEST Practice 8	Is an Occupant Service Request Program in place?		
Explanation & Evaluation	This question is a BEST Practice and is required for all levels of certification. Documentation demonstrating this BEST Practice must be uploaded.		
	<u>Description:</u> Service request for maintenance are used to identify issues pertaining to the building. Having a formal process in place allows tracking of various Key Performance Indicators such as critical equipment maintenance and critical building maintenance.		
	Requirements:		
	Establish an Oc following comp	cupant Service Request Program for the building. The Program must include the program:	
	 A mechanism to ensure that all service requests are reviewed and acted upon within 1-2 weeks, unless otherwise specified (e.g., critical area or critical equipment). Information on the origins of the service request; Information on the status of the service request (e.g. in progress, resolved, etc.); and Information on the corrective action taken. Documentation must be kept on file for a minimum of three (3) months. Demonstration of implementation is required. The program can be common to a portfolio or campus of buildings 		
	however implementation must be building-specific. Consult the <u>BEST Practice Guidelines</u> for a complete list of requirements concerning this BEST Practice.		
	<u>Additional Information:</u> Service requests can be made by all building occupants, including tenants, visitors and staff.		
Scoring	Yes Certification is permitted		
	No Certification is not permitted		



HEALTH AND WELLNESS

BEST Practice 9	Is a Hazard	lous Building Materials Management Program in place at the building?	
Explanation & Evaluation	This question is a BEST Practice and is required for all levels of certification. Documentation demonstrating this BEST Practice must be uploaded. Description: The presence and condition of hazardous building materials must be identified and managed for the safety of building occupants.		
	1. In PC	ventory of all building materials known or presumed to contain asbestos, lead, CBs, silica and mercury (at a minimum); spection of known/presumed asbestos-containing materials within the past 12 onths, where present; spection of materials known/presumed to contain lead, mercury, PCBs or other azardous building materials or equipment within the last three (3) years, where resent; orrective actions identified during the inspections completed; lanagement protocols for unexpected disturbance of asbestos; re-construction assessment of materials and equipment impacted by renovation activities for the presence of hazardous building materials; proactive plan for the abatement of accessible asbestos-containing materials including in the areas above acoustic tiles) and PCB-containing equipment and allasts; wareness training for building maintenance staff on asbestos safety; and eview and updating as changes occur to the location of hazardous materials in the uilding, at a minimum every three (3) years. y management program, one should strive for continuous improvement. Review agement program must occur as changes to the responsibilities, personnel, notity or condition of the materials occur.	
	Demonstration of implementation is required. The program can be common to a portfolio or campus of buildings however implementation must be building-specific. Consult the <u>BEST Practice Guidelines</u> for a complete list of requirements concerning this BEST Practice.		
Scoring	Yes	Certification is permitted	
	No	Certification is not permitted	



BEST Practice 10 (B)	Is a Te	enant Hazardous Chemicals Monitoring Program in place?	
Explanation & Evaluation	This question is a BEST Practice and is required for all levels of certification. Documentation demonstrating this BEST Practice must be uploaded.		
	<u>Description:</u> Tenants, as well as building owners, are required to have an up-to-date Hazardous Chemical or Use-Related Product Inventory. Building owners must keep an up-to-date record of all tenant Hazardous Chemical or Use-Related Product Inventories.		
		rements: At a minimum, the Tenant Hazardous Chemicals Monitoring Program address the following:	
	•	Periodic (at least annual) tenant inventory including location and approximate quantities of hazardous chemicals in tenant areas. This inventory can be conducted by the tenant or the property owner. In all cases, the results of the inventory must be provided to the building owner/manager. Provision of Material Safety Data Sheets on all hazardous chemicals in tenant areas. Periodic checks on the safe storage and use of the chemicals or use-related	
	products (at least annual). Demonstration of implementation is required. The program can be common to a portfolio or campus of buildings however implementation must be building-specific.		
	<u>Additional Information:</u> Consult the <u>BEST Practice Guidelines</u> for a complete list of requirements concerning this BEST Practice.		
Scoring	Yes	Certification is permitted	
	No	Certification is not permitted	



CUSTODIAL

BEST Practice 11	Is a Green Cleaning Program i	n place at the building?		
Explanation & Evaluation	This question is a BEST Practice and is required for all levels of certification. Documentatio demonstrating this BEST Practice must be uploaded.			
	<u>Description:</u> A Green Cleaning Program emphasizes the use of environmentally preferred products, maintenance of cleaning equipment and effective cleaning practices.			
	Requirements: Develop a Gree following components:	en Cleaning Program for the facility. It must include all		
	 50% of all cleaning products and supplies must be certified by one of the following third-party organizations: EcoLogo, Green Seal, US EPA Safer Choice, GREENGUARD, Forest Stewardship Council (FSC), Sustainable Forestry Initiative (SFI), or Sustainable Forest Management Standard (SFMI). Standard operating procedures (SOP) for cleaning activities. Cleaning logs (describing the activities carried out, the times they were carried out and by whom). Training for building cleaning staff. Annual review and updating of the overall program to ensure it still meets the objectives. Where custodial services are contracted, communicate custodial goals and green cleaning initiatives to the contracted company. The contracted company must provide the building/manager with documentation showing the same information outlined in the 			
	requirements. Demonstration of implementation is required. The program can be common to a portfolio			
	or campus of buildings however implementation must be building specific. Consult the <u>BEST Practice Guidelines</u> for additional guidance on demonstrating compliance for this BEST Practice. <u>Additional Information:</u> The BOMA-Accepted Equivalent is available for buildings where cleaning is performed exclusively or partially by individual tenants. The Green Cleaning Program must be in place for areas where the building manager or owner is responsible for cleaning, and where tenants are responsible, a guidance document must be provided educating tenants on how to develop their own Green Cleaning Program.			
Scoring	Yes	Certification is permitted		
	BOMA Accepted Equivalent			
	No	Certification is not permitted		



WASTE

BEST Practice 12(B)	Is a Waste Reduction and Diversion Policy in place at the building?	
Explanation & Evaluation	This question is a BEST Practice and is required for all levels of certification. Documentation demonstrating this BEST Practice must be uploaded.	
	<u>Description:</u> The Waste Reduction and Diversion Policy represents a commitment from the organization or building management to continuously improve regarding the reduction and diversion of solid waste.	
	Requirements: The Policy must include a statement committing the organization or building to continuous improvement in the reduction and diversion of waste. Address the prevention, diversion, and management of solid waste generated because of the following:	
	Day to day activities from all waste producing areas, including food service and retail; and	
	 Periodic events such as conferences, catered meetings and functions, training, tenant relocation activities, construction, renovation and demolition projects, fit- ups, etc. 	
	The Policy (and any subsequent updates) must be dated and signed by Senior Management (an individual with decision-making abilities regarding budget expenditures).	
	Additional Information: Demonstration of implementation is not required, nor is building-specific information. The policy can be common to a portfolio or campus of buildings.	
	Buildings that have achieved a certification through the 3RCertified program can answ "Yes" and show their certification to the verifier. 3RCertified is a certification program for buildings in the Industrial, Commercial and Institutional (IC&I) sectors that reviews how organizations manage solid waste reduction and diversion operations. It is available across Canada.	
Scoring	Yes Certification is permitted	
	No Certification is not permitted	



STAKEHOLDER ENGAGEMENT

BEST Practice 15	Is an overarching Environmental Policy guiding the building's management?		
Explanation & Evaluation	This question is a BEST Practice and is required for all levels of certification. Documentation demonstrating this BEST Practice must be uploaded.		
	<u>Description:</u> An Environmental Policy or vision establishes the direction building management wishes to take regarding future improvements in the building's environmental performance. Such formal statements can guide decision making and establish credible leadership to adequately address environmental issues that could result in improved operations, reductions in operational expenses, and improved management-tenant relationships.		
	Requirements: Create an overarching Environmental Policy (or vision) which contains the following components:		
	 A specific objective or vision statement for each of the ten (10) categories in the BOMA BEST assessment. In each case, provide a clear objective or vision regarding what your organization (or building) hopes to achieve within a specified timeline (e.g., achieve a 5% reduction in energy consumption in five years; perform the building's first air quality audit, etc.). Enter the vision statement for each assessment category in the space provided in 		
	the online portal. Additional Information: The statements provided for each category can pull directly from objectives established in previous questions in this BOMA BEST assessment. This BEST Practice seeks to bring them together into an overarching document.		
	Demonstration of implementation is not required, nor is building-specific information. The policy can be common to a portfolio or campus of buildings.		
Scoring	Yes Certification is permitted		
	No Certification is not permitted		



BEST Practice 16	Is an Occupant Environmental Communication Program in place at the building?		
Explanation & Evaluation	This question is a BEST Practice and is required for all levels of certification. Documentation demonstrating this BEST Practice must be uploaded.		
	<u>Description:</u> Increasing building occupant awareness and engagement in environmental and sustainable practices can have a significant positive or negative impact on the performance of the building. Improving the environmental performance of the building can lead to many positive outcomes for building management, staff and tenants, including but not limited to lower operational costs, lower utility bills, improved indoor air quality, improved management-tenant relationships, etc.		
		nents: The Occupant Environmental Communication Program must address the components:	
	 Selecting the communication strategies that will be used; Selecting the activities that will be encouraged; Identifying responsible individuals among management for moving each aspect of the plan forward; and Creating a timeline for implementation. Demonstrate that at least two (2) communication strategies have been implemented in the past 12 months. The program can be common to a portfolio or campus of buildings however implementation must be building-specific. Consult the BEST Practice Guidelines for a complete list of requirements concerning this BEST Practice. 		
	Additional Information: Occupants are the permanent/regular occupants of the building, such as tenants and staff. If the building is owner-occupied, surveys should be directed to staff. Visitors to the building are not considered occupants.		
Scoring	Yes Certification is permitted		
	No Certification is not permitted		



1.0 ENERGY



1.1 DEMONSTRATION OF INTENT

01.01.01	Does building staff participate in a formalized training program focused on energy efficiency?			
Explanation & Evaluation		ption: Provide annual training and educational opportunities for building staff to their knowledge and skills remain up-to-date on the following topics:		
	•	Monitoring and efficiency Preventative and corrective maintenance		
	Requirements: List the external training courses or internal training completed by operations staff in the past two (2) years and those planned during the next 12 months. Training may be provided by equipment manufacturers, through college courses, designation courses (e.g., offered by BOMI Canada < http://www.bomicanada.com/en-			
		<u>ursesdeliveryoptions/designations.aspx</u> >), online courses (e.g., <u>BOMA e-energy training</u> <u>c//www.bomalearning.com/home2></u>), and/or by qualified building staff members.		
	taken	ds (such as completion certificates, transcripts, etc.) must be kept outlining who has what courses, when they were taken, and if they are working towards a certain ation (such a Certified Energy Manager).		
	Training must be provided on the equipment and systems for which the property owner responsible. If duties are sub-contracted the above information must be provided for personnel assigned or have visited the site.			
	The level of training can be adjusted to reflect the level of owner responsibility for building systems. For example, in the case of RTUs owned by the property manager but controlled and maintained by the tenant, training could focus on equipment start-up, commissioning, operation (to advise tenants on operation) and specification. In the case where the RTUs are owned and maintained by the property manager but controlled by the tenant, training could focus on the above plus maintenance.			
	Demonstration of implementation is required. The program can be common to a portfolio or campus of buildings however implementation must be building-specific.			
	utility "Preve "Corre	onal Information: "Monitoring and efficiency" refers to sub-metering and reviewing bills to track equipment performance over time to ensure optimal operation. entative maintenance" involves inspecting and testing units for operation and faults. ective maintenance" involves repairing a unit to bring it back to operability at its most ont capability.		
	Over time, technologies and preferred practices in building operations and maintenance change. Providing regular professional development opportunities is a good way to help retain staff. Offering training and educational opportunities related to environmental/sustainable building performance not only benefit staff but improve the performance of the building when staff training is applied at the building level. Staff should receive certificates of completion for each training/educational opportunity they complete as this signals that they were in attendance, and achieved the requirements set out by the trainer/educator.			
		Select Not Applicable if all HVAC equipment is owned, managed and maintained solely by tenants.		
Scoring	Yes	14/14		
	No	0/14		
	N/A	0/0		



01.01.02	List the training courses or internal training completed by operations staff in the last two (2) years and those planned during the next 12 months.

01.01.03		Does the capital plan include measures to ensure continuous improvement of the energy efficiency of the building envelope?		
Explanation & Evaluation	<u>Description:</u> Improving the envelope can improve the performance of the building; howeve these are typically capital-intensive projects.			
	buildi	irements: Measures to ensure continuous improvement of the energy efficiency of the ing envelope include (but are not limited to): increasing the roof insulation, improving lazing/framing systems, and increasing opaque wall insulation.		
	The capital plan must demonstrate that at least one (1) high-impact measure to improve energy efficiency of the building envelope has received a dedicated budget, a dedicated responsible person and a timeline for implementation. Provide details surrounding the extent to which the measure is expected to improve the energy efficiency of the building envelope. The capital plan must have been approved and signed by senior management in the last (5) years. Additional Information: Measures accepted in a previous certification cannot be used again a recertification to obtain these points. New measures must be provided.			
Scoring	Yes	13/13		
	No	0/13		



01.01.04	Have three (3) years of energy consumption data been analyzed in order to establish trends?		
Explanation & Evaluation			
Scoring	Yes	7/7	
	No	0/7	
	N/A	0/0	



1.2 ASSESSMENT

01.02.01	Do you benchmark energy performance using either the BOMA BEST or ENERGY STAR Portfolio Manager portal?		
Explanation & Evaluation	 Description: Benchmarking informs organizations about how much energy they use and where they use it. It allows organizations to identify opportunities to optimize energy use and reduce operating costs. Requirements: You must enter at least 24-consecutive months of energy consumption data using either the BOMA BEST portal (instructions) or ENERGY STAR Portfolio Manager (instructions). Data must be entered in individual months. Data cannot be a bulk amount representing the complete 24-month timeframe Data must not be any older than the last 36 months Data does not need to represent the entire building's consumption. Indicate the areas to which this data can be attributed in Question 01.02.02 Data should not represent consumption during periods of major renovations Tips on benchmarking are available in this FAQ. Additional Information: Select Not Applicable if all energy meters are managed solely by 		
Scoring	BOMA BEST ENERGYSTAR	10/10 10/10	
	No N/A	0/10	



01.02.02	Indicate the areas for which you have energy consumption data available.
Explanation & Evaluation	<u>Description:</u> To properly benchmark energy consumption, it is first necessary to understand which areas are represented in the data.
	Requirements: Indicate for which areas and which type of fuel energy consumption data will be provided.
Scoring	For informational purposes.

	Area	Electricity	Natural Gas	Other Fuel
Total Building				
All tenants				
Some tenants				
Interior common area				
Exterior common area				
(e.g., lighting)				

01.02.03	For what percentage of occupied gross leasable area is energy consumption data available?		
Explanation & Evaluation	<u>Description:</u> Obtaining whole building consumption information (including tenant-managed energy data) provides building managers a better understanding of the building's performance and the opportunities that exist for improvement. <u>Requirements:</u> Indicate for what percentage of occupied gross leasable area you have energy consumption data (either through sub-metering or by other means). The data must represent consumption from the most recent 24-month period and must not be any older than the past 36 months.		
Scoring	Less than 24%	0/20	
	25-39%	4/20	
	40-64%	8/20	
	65-79%	12/20	
	80-94%	16/20	
	95-100%	20/20	



01.02.04	Can you provide a weather-normalized site Energy Use Intensity (EUI) for this building?		
Explanation & Evaluation	<u>Description:</u> Using the BOMA BEST or the ENERGY STAR Portfolio Manager portals, generate a weather-normalized site EUI for the building.		
	Requirements: You must be able to generate a weather-normalized site energy use intensity on your building's <u>Property characteristics page</u> to obtain these points.		
	Same requiremen	its as question 01.02.01.	
	Provide the EUI in your preferred unit. Include up to two decimals. Leave blank if no EUI could be calculated.		
	Additional Information: In the case where multiple buildings are being assessed using a single questionnaire (must meet the BOMA BEST definition for single building), a single E must be provided here. To obtain this EUI, representative of the total space and the total consumption, create an additional space in BOMA BEST or in ENERGY STAR Portfolio Manager, that combines the entire complex's area and its consumption.		
Scoring	Yes (Provide)	3/3	
	No	0/3	

01.02.05	Have you compared the building's current energy consumption with consumption from past years?			
Explanation & Evaluation	staff a	Description: Analyzing energy consumption data and detecting anomalies can assist facilities taff and building owners with better building management by harnessing the power of data extrapolated over time.		
	be inc	Requirements: All building fuels under the responsibility of the building owner/manager must be included in the analysis (electricity, natural gas, etc.). At a minimum, compare consumption from the same seasons over two (2) years to detect anomalies. Conclusions drawn from the analysis must be presented.		
	at com regard during	Additional Information: Ensure you are comparing the same areas (if you originally looked only at common area consumption, continue looking at this area) as well as applying the same rules regarding whether to use normalized data (such as weather). If renovations have occurred during this time, special consideration should be applied in the analysis. Select Not Applicable if all energy meters are managed solely by tenants.		
Scoring	Yes	6/6		
	No	0/6		
	N/A	0/0		



01.02.06	Has a thermal imaging scan of the roof or walls been performed within the last five (5) years?			
Explanation & Evaluation	<u>Description:</u> A thermal imaging scan of the building will help identify the areas where energy is flowing to and from the building, areas that may allow for higher than normal thermal transfer.			
	Requirements: A scan of the building envelope (walls, curtain walls) and roof is recommended. The thermal scan must be performed by a certified thermographer. The scan must have been performed in the last five (5) years.			
	Additional Information: The most common tool to do this work is a thermal camera, which shows the heat patterns of an item on a built-in screen on the device. Depending on the six and shape of the building a scan can range from an hour to multiple days.			
Scoring		Yes	No	
	Only Roof	4/8	0/8	
	Only Walls	4/8	0/8	



1.3 OPERATIONS AND MAINTENANCE

01.03.01	Are Operation Manuals and Standard Operating Procedures for the major mechanical equipment easily accessible?		
Explanation & Evaluation	<u>Description:</u> Operation Manuals and Standard Operating Procedures for major equineeded to ensure proper system maintenance and operation.		
	<u>Requirements:</u> Operation Manuals and Standard Operating Procedures (SOP) for all major mechanical equipment must always be available to building operators in hard copy format AND be easily accessible on-site.		
	1	. The Operation Manuals enable a better understanding of the mechanical equipment or system and how they should be used. The Operation Manuals must contain the following information for each system or piece of (major) mechanical equipment:	
		 Identify the system/equipment (e.g., its purpose, how it integrates with other systems). 	
		 Describe the operations of the system/equipment (e.g., what steps are required to operate it and in what sequence). 	
		 Easy-to-understand troubleshooting instructions on the system/equipment in case of emergency. 	
	2	. The Standard Operating Procedures (SOP) outline how the mechanical equipment or system should operate according to its design as per manufacturer requirements. The SOPs must contain the following information for each system or piece of (major) mechanical equipment:	
		 Identify the roles and responsibilities for each individual (e.g., building operator, building manager) working with the system/equipment. 	
		 Step-by-step instructions describing how to carry out essential tasks on the mechanical system/equipment. 	
	Where ongoing maintenance and repair of major mechanical equipment is contracted to third-party, Operation Manuals and SOPs containing the required elements must be proto to the building manager and operator, and these must be easily accessible in hard copy to the on-site operations team for day-to-day activities or in off-hours instances where a party may not be readily available. Additional Information: These documents list and describe the operation of the system equipment in a building. The Operation Manuals contain such information as modes of operation, diagrams, system interaction, etc. The SOPs provide details on proper recommissioning practices, ongoing building optimization and maintenance as well as troubleshooting and calibration. Copies of Operation Manuals and SOPs should be kept secure, dry, location to ensure there is always a clean copy available. A digital copy may exist (optional). Major mechanical items include air handlers, central plant equipment, motor controllers custom equipment.		
		t Not Applicable if there is no major mechanical equipment or if said equipment is d, managed and maintained solely by tenants.	
Scoring	Yes	15/15	
	No	0/15	
	N/A	0/0	



01.03.02	Does building management track and monitor building performance and consumption patterns?		
Explanation & Evaluation	<u>Description:</u> Monitoring and tracking building energy usage can highlight irregularities which, when corrected, can improve building performance.		
	Requirements: At a minimum, track and monitor the building's performance and consumption patterns for all sub-metered items on a quarterly basis. Monitoring and analysis must be done by either a dedicated staff member (for example using an in-house spreadsheet) or by dedicated software.		
	Additional Information: Monitoring includes a review of the energy use over specific time periods, costs, and consumption patterns with events highlighted. An "event" refers to a noticeable spike or dip in the trend data. Other equipment and systems to monitor include (as applicable): BAS, lighting, HVAC, envelope efficiency, etc.		
	Monitoring report logs will assist with analysis of the building's operations.		
	Select Not Applicable if there is no major mechanical equipment or if said equipment is owned, maintained and managed solely by tenants.		
Scoring	Yes	8/8	
	No	0/8	
	N/A	0/0	

01.03.03	Are n	Are maintenance work orders created digitally?	
Explanation & Evaluation	<u>Description:</u> Automated work orders facilitate direct communication between the order placer and the order taker, minimizing the possibility of the issue escalating into something worse. Such work orders are easily tracked.		
	and t	Requirements: Demonstrate that equipment maintenance work orders are created digitally and that follow up and resolution is provided in a timely manner, based on the company-specified timeframe.	
Scoring	Yes	5/5	
	No	0/5	



01.03.04	Has an	Has an energy conservation measure been implemented in the last three (3) years?		
Explanation & Evaluation	<u>Description:</u> The Energy Management Plan is a plan with timelines, budgets and a responsibility matrix for implementing energy conservation measures (ECMs). Implementing ECMs will improve the energy performance of the facility.			
	Requirements: At least one (1) low-cost ECM from the Energy Management Plan (or equivalent) must have been implemented in the last three (3) years. In addition to this, provide documentation on all no cost energy conservation measures implemented in the last three (3) years. To be considered implemented, construction of measures/initiatives must be completed, and the measure must be commissioned and operational.			
	Additional Information: Measures cannot be considered if they are included in the Capital Plan but not yet implemented or if the implementation has not been completed at the time of the verification.			
Scoring	Yes	24/24		
	No	0/24		

01.03.05	Are the	equipment and energy systems regularly re- or retro-commissioned?	
Explanation & Evaluation	<u>Description:</u> Commissioning is a well-planned and documented engineering approach that ensures that new equipment and systems are installed properly and functioning as designed. Re- or retrocommissioning is like commissioning in its objectives however applies specifically to equipment that we never commissioned upon installation.		
	Requirements: Demonstrate that periodic re- or retro- commissioning is in place for building equipment and systems. Provide a clear schedule of equipment that has been re- or retro-commissioned in the pass 12 months along with a log of what work was performed, when and by whom. Equipment for which the property owner is not responsible (owned, maintained or managed) can be excluded.		
		ust be performed by accredited professionals or trained staff.	
	In the case where the major mechanical equipment is owned, maintained and managed solely by tenants, the property manager must provide communication documents to the tenants regarding the importance of proper re- or retro-commissioning.		
	Consult Natural Resource Canada's " <u>Building Operation Optimization: Recommissioning Guide for Building Owners and Managers</u> " for more information on these practices.		
	Additional Information: Periodic (also ongoing or continuous) re- or retro-commissioning is a systema approach for the re-optimization of previously commissioned equipment and systems. Equipment and systems are reviewed on a regular basis to identify and adjust less-than-optimal performance in the facility's equipment, lighting and control systems. Failure to re- or retro-commission equipment can let to reduced efficiency, improper fluid flows and temperatures, and premature decommissioning/replacement. Periodic re- or retro-commissioning examines equipment performance through a different lens than preventative maintenance. Periodic re- or retro-commissioning is performed to ensure the system continues to operate as designed whereas preventative maintenance refers specifically to maintenance of individual components (e.g., air filters and fan belts) of these systems.		
	Select Not Applicable if there is no major mechanical equipment.		
Scoring	Yes	9/9	
	No	0/9	
	N/A	0/0	



01.03.06	Are newly installed energy systems and equipment appropriately commissioned?		
Explanation & Evaluation	<u>Description:</u> Commissioning is a well-planned and documented engineering approach that ensures that new equipment and systems are installed properly and functioning as designed.		
	Requirements: Provide records demonstrating that new major equipment and systems purchased by the owner are commissioned either by the equipment/system provider or by an accredited independent third party following installation. If no major equipment or systems have been installed in the past 12 months, demonstrate that there is a policy committing to commissioning new major equipment installed in the building.		
	In the case where the major mechanical equipment is owned, maintained and managed solely by tenants, the property manager must provide communication documents to the tenants regarding the importance of proper commissioning.		
	Additional Information: Major equipment includes (but is not limited to) central plant equipment, air handling units, packaged rooftop units, and custom equipment.		
	Commissioning of equipment is vital to the entire system's operation and ensures that everything functions as designed. Failure to commission new equipment could result in less than optimal performance.		
	Commissioning should be performed to the level of owner's responsibility for example if a building owner is responsible for equipment purchase but the tenant is responsible for operations the owner is still required to commission equipment.		
	Select Not Applicable if there is no major mechanical equipment.		
Scoring	Yes	9/9	
	No 0/9		
	N/A 0/0		

01.03.07	Have corrective actions been taken to address deficiencies identified in the thermal imaging scan?		
Explanation & Evaluation	<u>Description:</u> Addressing envelope deficiencies will improve the building performance and assist with asset preservation.		
	Requirements: Demonstrate that at least one (1) deficiency raised in the thermal imaging scan has been addressed.		
	Additional Information: The thermal imaging report will highlight challenges with the building envelop like air leakage, water penetration and thermal bridging. The items identified during the imaging typically range from low cost to capital cost to address.		
	Select Not Applicable if a thermal imaging scan was not performed.		
Scoring	Yes	5/5	
	No	0/5	
	N/A 0/0		



1.4 BUILDING SYSTEMS

01.04.01	What percentage of the building's energy consumption is sub-metered?			
Explanation & Evaluation	<u>Description:</u> Sub-meters measure the energy consumption of specific areas or equipment. Metering major mechanical equipment will reveal how often it runs and how much energy it consumes during operation, as well as identify when equipment drifts away from set point (should it occur).			
	Requirements: Provide outputs from sub-meters along with information on each sub-meter such as make, model, and serial number.			
	Additional Information: This question concerns only those utility accounts managed by the property manager. Select Not Applicable if all meters are managed by tenants.			
Scoring	50% or more 9/9			
	25-50%	6/9		
	10-24% 3/9 Less than 10% 0/9 N/A 0/0			

01.04.02	Do you maintain a list of every energy meter installed within the building that you own and manage?		
Explanation & Evaluation	<u>Description:</u> Maintaining a list of the meters operating within the building can assist building managers in their energy tracking and monitoring efforts as well as help answer any questions related to consumption anomalies. A list allows for a methodic approach to energy analysis.		
	Requirements: The list must indicate meter location and tag number (if available).		
		<u>Additional Information:</u> Select Not Applicable if all meters are owned and managed solely by the tenants.	
Scoring	Yes	3/3	
	No	0/3	
	N/A	0/0	

01.04.03	Do you maintain a list of every energy meter installed within the building managed by tenants?					
Explanation & Evaluation	Description: Having a list of all tenant operated and managed meters within the building can assist building managers in their energy tracking and monitoring efforts as well as allowing them to share this information with all building tenants Requirements: The list must indicate meter location and tag number (if available). Additional Information: Select Not Applicable if there are no meters managed by tenants.					
Scoring	Yes	5/5				
	No	0/5				
	N/A	0/0				



01.04.04	What building areas incorporate at least 50% of ENERGY STAR or DesignLight Consortium (DLC) approved lighting lamps and ballasts?					
Explanation & Evaluation	<u>Description:</u> ENERGY STAR and DesignLight Consortium (DLC) approved lighting have been tested and shown to consume less energy than those that are not approved.					
	Requirements: Refer to the item's manufacturer data sheet or the ENERGY STAR or DLC website to look up the product's model number to verify it is ENERGY STAR or DLC approved.					
	Eligible products must be ENERGY STAR or DLC approved at the time of installation.					
	Fixtures which are not ENERGY STAR or DLC certified can be considered as equivalent if a Measurement and Verification Report is prepared which shows that the energy					
	consumption of the fixture is within 10% of the product specification and there is					
	equivalent (i.e. similar type and design) ENERGY STAR or DLC certified fixture. The					
	Measurement and Verification report cannot be prepared by someone who is connect to the fixture manufacturer.					
	Additional Information: Select all that apply. Select Not Applicable if a particular area is not present in the building or if there are no fixtures purchased or maintained by the building owner in a particular area.					
	References:					
	ENERGY STAR commercial lighting fixtures					
	(https://www.energystar.gov/products/lighting fans/commercial light fixtures/eligible c ommercial fixture types)					
	EnergyStar certified products (https://www.energystar.gov/products/certified-products)					
	EnergyStar residential lighting fixtures					
	(https://www.energystar.gov/products/lighting fans/light fixtures/eligible residential fixture types					
	DLC (https://www.designlights.org/qpl)					
Scoring		Yes	No	N/A		
	Office	2/8	0/8	0/0		
	Warehouse	2/8	0/8	0/0		
	Building Exterior	2/8	0/8	0/0		
	Common Areas	2/8	0/8	0/0		



01.04.05	What percentage of the building exterior and parking lot fixtures have LED lamps and automated controls			
Explanation & Evaluation	<u>Description:</u> Building exterior and parking lot fixtures should be outfitted with LED lamps with photo cells and/or timers since these fixtures typically operate nightly. Using LED lamps will decrease the cost of power consumed when they are in operation.			
		<u>Requirements:</u> Demonstrate what percentage of exterior and parking lot fixtures have LED lamps or automated controls.		
	<u>Additional</u>	Additional Information: Select Not Applicable if there are no exterior or parking lot fixtures		
Scoring	80-100%	14/14		
	60-79%	11/14		
	40-59%	8/14		
	20-39%	5/14		
	1-19%	2/14		
None		0/14		
	N/A	0/0		

01.04.06	What percentage of lighting fixtures are controlled by sensors?		
Explanation & Evaluation	<u>Description:</u> Lighting fixtures can be controlled by sensors (e.g., occupancy sensors, vacancy sensors, and daylight/photocell sensors) to reduce energy consumption. Where appropriate, these sensors can be incorporated with a Building Automation System or be stand-alone. Requirements: Lighting control sensors must be installed within areas where the building		
		sible for lighting system maintenance.	
	<u>Additional Information:</u> Select Not Applicable if all lighting fixtures are owned, maintained and managed solely by tenants. If the property manager did not implement, but knows the percentage of sensors, select the appropriate answer range.		
Scoring	75 – 100%	10/10	
	50 – 74%	8/10	
	25 - 49%	5/10	
	10 - 24%	3/10	
	Less than 10%	0/10	
	N/A	0/0	



01.04.07	What percentage of the total installed pump and fan motors are actively controlled by variable speed drives (VSD) or variable frequency drives (VFD)?		
Explanation & Evaluation	Description: VSDs and VFDs control motor speed by varying the motor speed/frequency of electrical supply to match actual load requirements, reducing energy consumption and improving control and lifespan of the equipment. By utilizing these drives, energy can be saved by using equipment only at the minimum output to maintain set points.		
	Requirements:	These units cannot be manually locked to 100% or run at 100% consistently.	
	Additional Information: Select Not Applicable if there are no pump and fan motor greater); if said equipment is owned, managed and maintained solely by tenants; of variable flow is not feasible for the design, as stated by a Professional Engineer or accredited person.		
Scoring	75 – 100%	14/14	
	50 – 74%	10/14	
	25 - 49%	6/14	
	Less than 25%	4/14	
	None	0/14	
	N/A	0/0	



01.05.01	Is 75% or more of the total installed pump and fan motor horsepower considered premium efficiency?	
Explanation & Evaluation	<u>Description:</u> NEMA (National Electrical Manufacturers Association) premium efficiency motors consume less energy than even their code mandated high-efficiency counterparts.	
	Requirements: Provide nameplate information on motors. 75% of the total capacity must be considered efficient.	
	Additional Information: For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.	
	Reference: NEMA premium motors (http://www.nema.org/Policy/Energy/Efficiency/Pages/NEMA-Premium-Motors.aspx)	
Scoring	Yes	24/24
	N/A	0/0

01.05.02	Are 75% of the rooftop package units efficient?		
Explanation & Evaluation	<u>Description:</u> Rooftop air handling units that have a higher energy efficiency ratio utilize their fuel more effectively when cooling to the same set point with less fuel consumed relative to a lower Energy Efficiency Ratio (EER) unit.		
	Requirements: Efficient rooftop package units have an EER rating of 11.5 or greater. 75% of the total capacity must be considered efficient.		
	Additional Information:		
	To convert the Seasonal Energy Efficiency Ratio (SEER) to EER, use the following formula:		
	EER = (1.12 * SEER) - (0.02 * SEER ²)		
	For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.		
Scoring	Yes	24/24	
	N/A	0/0	



01.05.03	Is 75% of the domestic water heating equipment efficient?		
Explanation & Evaluation	Requirements: Efficient domestic water equipment must be compliant with ENERGY STAR or equivalent. Electric water heaters must be certified by the Air Conditioning, Heating, and Refrigeration Institute (AHRI). 75% of the total capacity must be considered efficient.		
	Additional Information: Examples of ENERGY STAR-compliant water heating equipment include (but are not limited to) condensing, tankless and solar water heaters. ENERGY STAR rated equipment use energy effectively while minimizing fuel consumption.		
	If no AHRI certification is available for electric water heaters, it must have standby losses in percentage per hour (%/hr) less than or equal to [0.3 + 27/V] where V is water heater volun in gallons. For example, to be eligible, an electric water heater with a nominal volume of 50 gallons and a measured volume of 47.5 gallons must have standby losses that are no greate than 0.87%/hr (since 0.3 + 27/47.5 = 0.87). For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost. Reference:		
	ENERGY STAR-compliant equipment		
	AHRI certification directory		
Scoring	Yes	24/24	
	N/A	0/0	

01.05.04	Are 75% of the building's exterior windows and/or skylights considered efficient?		
Explanation & Evaluation	Description: Energy efficient windows and skylights can reduce energy consumption by reducing thermal losses to the exterior. Requirements: Provide evidence that the windows are energy efficient. Windows are considered energy efficient when the following four (4) conditions have been met:		
	 They help help help help help help help help	rmation: For all innovation questions, if you are unable to answer "Yes",	
Scoring	Yes	licable" instead. No points will be lost.	
Scoring		24/24	
	N/A	0/0	



01.05.05	Are renewable energy certificates, low-impact electricity or carbon offsets purchased for the building?
Explanation & Evaluation	Description: Low-impact electricity, renewable energy certificates (RECs) or high-quality carbon offsets can be purchased to displace or offset the carbon footprint associated with energy use in the building. Requirements: To be considered eligible, the building must use one of the following methods to reduce the carbon intensity associated with the building's energy consumption. For a given method, all components listed must be in place: a) Eligible low-impact electricity or RECs: • Must be purchased from a credible vendor (e.g., generator, aggregator, distributor, etc.) certified under the EcoLogo or Green-e Energy National Standard. • Must have been purchased in the last 12 months. • Must be specifically attributed to the building. b) Eligible carbon offsets: • Must be purchased from a high-quality carbon offset project developed to meet an approved voluntary or regulatory industry requirement: i. List of approved voluntary (non-compliance) offset standards: • Verra (includes VCS - Verified Carbon Standard; SCB - Climate, Community & Biodiversity Standard; SD Vista - Sustainable Development Verified Impact Standard) • Plan Vivo • CAR (Climate Action Reserve - Climate Reserve Tonnes) • UK Woodland Carbon Code • CDM (UN Clean Development Mechanism) • Green-e Certified Carbon Offsets ii. List of approved compliance market (required under legislation) offset standards include but are not limited to: • BLC. (Birtish Columbia) Carbon Registry • WCI (Western Climate Initiative) • Must have been purchased in the last 12 months. • Must be specifically attributed to the building. Additional Information: Carbon offsets purchased in voluntary markets must meet one of the standards listed here. However, carbon offsets purchased for compliance market scan be from other compliance market standards not listed here. Carbon offsets may be purchased at the portfolio level but must be retired against a specific building so that they cannot be claimed against another building. For all innovation questions,
Scoring	Yes 18/18
	N/A 0/0



01.05.06		Are renewable natural resources used on-site to generate at least 1% of the building's energy?	
Explanation & Evaluation	renev	<u>Description:</u> Renewable natural resources include solar, wind, and biomass. Using such renewable sources of energy for electricity or heating (for example) can provide building owners with a reliable, sustainable energy source that offsets grid consumption.	
	past	<u>irements:</u> Demonstrate that renewable energy has been generated on-site during the 12 months. The energy generated must be sufficient to offset 1% of the total energy umed on-site.	
	Additional Information: Installations that use these resources include photovoltaic panels, wind turbines, and biomass burning equipment (not including Energy from Waste equipment). Such on-site generation can provide advantages such as reduced utility costs, and reductions in GHG emissions generation through increased use of renewable energy sources and reduction in energy transmission and "line loss".		
	For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.		
Scoring	Yes	12/12	
	N/A	0/0	

01.05.07		Is the building connected to any form of energy cogeneration system, or to a district or community energy system?	
Explanation & Evaluation	<u>Description:</u> District energy systems produce steam, hot water, or chilled water at a central plant, which is then piped to individual buildings to achieve space heating, domestic hot water heating, and/or air conditioning. This negates the need for individual building systems to provide these services, and enables improved energy efficiency, decreased life-cycle costs, greater flexibility, and decreased capital expenditures.		
	During cogeneration, waste heat that is typically lost during the production of electricity is captured and used as thermal energy to support district or local heating and cooling.		
	Requirements: Demonstrate that energy has been purchased from a district or community energy system or that there is an on-site co-generation system in operation.		
	Energy purchased or generated on-site must be sufficient to meet all major energy needs in the last 12 months.		
	Additional Information: For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.		
Scoring	Yes	12/12	
	N/A	0/0	



01.05.08	Is an innovative process or technology (approved by BOMA Canada) in place at the building that goes beyond the requirements outlined in this section?		
Explanation & Evaluation	<u>Description:</u> Many processes and technologies exist that go beyond the standards and requirements set out in the BOMA BEST Assessment. If building managers/owners have invested in innovative processes or technologies that go beyond these standards, innovation points can be earned under this question.		
	Requirements: Contact bomabest@bomacanada.ca to obtain the official submission guidelines. The BOMA BEST Technical Committee will assess each proposal to determine whether it qualifies. If pursuing this path, expect a 10-12-week delay before receiving a final decision. If you have not received a formal approval for your process or technology from BOMA Canada, click "Not Applicable".		
Scoring	Submitted to BOMA Canada 0/0		
	Approved by BOMA Canada	24/24	
	N/A	0/0	



2.0 WATER



02.01.01	Is a Water Damage Monitoring and Management Program in place in the building?	
Explanation & Evaluation	as 48 l addres	ption: Water-impacted building materials can begin to exhibit mould growth in as little nours. A water damage monitoring and management program will assist in rapidly ssing bulk water damage, including detailed procedures for drying, cleaning and liating where necessary.
	Require follow	rements: The Water Damage Monitoring and Management Program must include the ing:
	•	Inspection of building materials for signs of water damage or mould growth at least annually. Inspection of HVAC system components (such as chambers, pans, ductwork) for standing water, signs of water damage or mould growth at least annually. Inspection of readily accessible plumbing components for signs of leaks at least annually. All recommended corrective actions identified during the above inspections during the past 12 months completed. Response plans for the remediation of building materials exhibiting signs of water damage and mould growth (including consideration for the presence of hazardous materials based on the Hazardous Building Materials Management Plan).
	•	Response plans for bulk water damage from clean and contaminated sources. Training for building maintenance staff and custodial staff on water damage (including health hazards, how to identify suspect mould growth, response plans for identified mould growth or bulk water damage, safety precautions for remediating mould-impacted materials) Reviewing and updating of the management program at least annually.
	Demo	nstrate implementation by providing
	must	Evidence of visual inspections in building interiors and HVAC systems for mould growth and water damage within the last 12 months (such as work orders, IAQ Audit findings, maintenance records). Evidence that any recommended corrective actions identified by the visual inspections have been acted upon (such as work orders, follow-up inspections). Documented response plans for remediation of water damaged and/or mould impacted materials. The response plan must identify key personnel and their responsibilities, contact information for qualified building maintenance staff or contractors for remediation, tenant response plans and communication protocols. Attendance records and syllabus for training sessions. Evidence of implementation and review. Togram can be common to a portfolio or campus of buildings however implementation be building-specific. Onal Information: The Water Damage Monitoring and Management Program must
		orate all tenant spaces.
Scoring	Yes	5/5
	No	0/5



2.2 ASSESSMENT

02.02.01	Do you benchmark water performance using either the BOMA BEST or ENERGY STAR Portfolio Manager portal?		
Explanation & Evaluation	 Description: Benchmarking informs organizations about how much water they use and where they use it. It allows organizations to identify opportunities to optimize water use and reduce operating costs. Requirements: You must enter at least 12-consecutive months of water consumption data using either the BOMA BEST portal (instructions) or ENERGY STAR Portfolio Manager (instructions). Data can be entered in a bulk amount representing the 12-month timeframe Data must not be any older than the last 18 months Data should represent indoor and outdoor consumption Data does not need to represent the entire building's consumption. Indicate the areas to which this data can be attributed in Question 02.02.02. Data should not represent consumption during periods of major renovations Tips on benchmarking are available in this FAQ. Additional Information: Select Not Applicable if all water meters are managed solely by tenants. 		
Scoring	BOMA BEST	5/5	
	ENERGY STAR	5/5	
	No	0/5	
	N/A	0/0	



02.02.02	Indicate the areas for which you have water consumption data available.	
Explanation & Evaluation	<u>Description:</u> To properly benchmark water consumption, it is first necessary to understand which areas are represented in the data.	
	Requirements: Indicate for which areas water consumption data will be provided.	
Scoring	For informational purposes	

	Area
Total Building	
All tenants	
Some tenants	
Interior common area	
Exterior common area	
and landscaping (e.g.,	
irrigation)	

02.02.03	For what percentage of occupied gross leasable area is water consumption data available?		
Explanation & Evaluation	<u>Description:</u> Obtaining whole building consumption information (including tenant-managed water data) provides building managers a better understanding of the building's performance and the opportunities that exist for improvement.		
	Requirements: Indicate for what percentage of occupied gross leasable area you have water consumption data (either through sub-metering or by other means). The data must represent consumption from the most recent 12-month period and must not be any older than the past 18 months.		
Scoring	Less than 25%	0/20	
	25-39%	4/20	
	40-64%	8/20	
	65-79%	12/20	
	80-94%	16/20	
	95-100%	20/20	



02.02.04	Can you provide a Water Use Intensity (WUI) for the building?		
Explanation & Evaluation	<u>Description:</u> Using the BOMA BEST or the ENERGY STAR Portfolio Manager portals, generate a WUI for the building		
	Requirements: You must be able to generate a water use intensity on your building's Property characteristics page to obtain these points.		
	Same requireme	ents as question 02.02.01.	
	Provide the WUI in your preferred unit. Include up to two decimals. Leave blank if no WUI could be calculated.		
	Additional Information: In the case where multiple buildings are being assessed using a single questionnaire (must meet the BOMA BEST definition for single building), a single W must be provided here. To obtain this WUI, representative of the total space and the total consumption, create an additional space in BOMA BEST or in ENERGY STAR Portfolio Manager, that combines the entire complex's area and its consumption.		
Scoring	Yes (Provide)	3/3	
	No	0/3	

02.02.05	Have you compared the building's current water consumption with consumption from past years?			
Explanation & Evaluation	staff a	<u>Description:</u> Analyzing water consumption data and detecting anomalies can assist facilities staff and building owners with better building management by harnessing the power of data extrapolated over time.		
	Requirements: All water use under the responsibility of the building owner/manager must be included in the analysis. At a minimum, compare consumption from the same seasons over two (2) years to detect anomalies. Conclusions drawn from the analysis must be presented.			
	Additional Information: Ensure you are comparing the same areas (if you originally looked only at common area consumption, continue looking at this area) as well as applying the same rules regarding whether to use normalized data. If renovations have occurred during this time, special consideration should be applied in the analysis.			
	Select Not Applicable if all water meters are managed solely by tenants.			
Scoring	Yes 6/6			
	No	0/6		
	N/A	0/0		



2.3 OPERATIONS AND MAINTENANCE

No questions in this section.



2.4 BUILDING SYSTEMS

02.04.01	Do you maintain a list of every water meter installed within the building that you own and manage?	
Explanation & Evaluation	Description: Having a list of the meters operating within the building can assist building managers in their water tracking and monitoring efforts as well as help answer any questions related to consumption anomalies. A list allows for a methodic approach to water analysis. Requirements: The list must indicate meter location and tag number (if available). Additional Information: Select Not Applicable if all meters are owned and managed solely by the tenants.	
Scoring	Yes	5/5
	No	0/5
	N/A	0/0

02.04.02	Do you maintain a list of every water meter installed within the building managed by tenants?	
Explanation & Evaluation	Description: Having a list of all tenant operated and managed meters within the building can assist building managers in their water tracking and monitoring efforts as well as allowing them to share this information with all building tenants. Requirements: The list must indicate meter location and tag number (if available). Additional Information: Select Not Applicable if there are no water meters managed by tenants.	
Scoring	Yes	5/5
	No	0/5
	N/A	0/0



02.04.03	Which type of water efficient of	controls are used for irri	gation?			
Explanation	Description: Water-efficient irr	igation controls reduce v	water consumption.			
& Evaluation	Requirements: Indicate which type of irrigation control is in place at the building and used to irrigate 80% or more of the landscape.					
	Additional Information: Select building.			_		
	irrigated area to more	lines with low flow, dripp conservatively distribute plicators are below grou	e water.	_		
	Soil moisture sensors: communicate with an	Moisture sensors are pla automatic scheduling sy- els of the irrigated area.	aced in the soil of the irr	rigated area and		
	 Rain sensors: Precipita 	ition sensors placed in the system to adjust schedul	_			
	_	ollers: Can be either a Sm	nart or Central Controlle	er. Must be		
	 A smart continue receiving the 	oller automatically adjust appropriate inputs. Mostration (ET) data and have	t smart controllers use	Historical		
		a daily adjustment to th ce measures solar radiat	•			
		that feed information to a central hub, this hub then feeds the changing weather patterns to the individual smart controller on an hourly or daily basis.				
	_	Pressure regulated head: A pressure regulated sprinkler head can be used for all rotor, spray and rotary nozzles. It regulates the pressure of flowing water to a predetermined				
		pressure. It reduces water waste by dispersing larger water droplets that are more resistant to wind and eliminates high pressure misting and fogging.				
	I =	nual scheduling based on e in irrigating plants. Cons				
	evapotranspiration, best at night or away from peak sun and heat loads); flow rate and distribution of irrigation system; slope; soil type and infiltration rate of area being					
	irrigated; plant type (watering needs and root depth); seasonal changes in watering needs; and predicted and actual rainfall.					
Scoring		Yes	No	N/A		
	Drip irrigation	3/6	0/6	0/0		
	Root-fed irrigation	3/6	0/6	0/0		
	Soil moisture sensors	3/6	0/6	0/0		
	Rain sensors	3/6	0/6	0/0		
	Weather-based controllers	3/6	0/6	0/0		
	Pressure regulated head	3/6	0/6	0/0		
	Smart scheduling	3/6	0/6	0/0		



02.04.04	What percentage of water fixtures are efficient, based on inventory amount?
Explanation & Evaluation	<u>Description:</u> A high-efficiency fixture uses less water while still performing its function. <u>Requirements:</u> For each fixture type, identify what percentage of fixtures is efficient based on the standards listed.
	Additional Information:
	Select Not Applicable if a certain type of fixture is not present in the building or if the fixtures are owned, managed and maintained solely by tenants.
	Reference: WaterSense-approved fixtures (http://www.epa.gov/watersense/products/)

02.04.05	Toilet: 4.8 L/flush or less (1.28 G/flush)	
Explanation & Evaluation		
Scoring	75 – 100%	9/9
	50 – 74%	6/9
	25 – 49%	3/9
	Less than 25%	0/9
	N/A	0/0

02.04.06	Urinals: 1.9 L/flush or less (0.5 G/flush	
Explanation & Evaluation		
Scoring	75 – 100%	8/8
	50 – 74%	4/8
	25 – 49%	2/8
	Less than 25%	0/8
	N/A	0/0

02.04.07	Lavatory and kitchen faucets: 5.7 L/min or less (1.5 G/min)		
Explanation & Evaluation			
Scoring	75 – 100%	8/8	
	50 – 74%	4/8	
	25 – 49%	2/8	
	Less than 25%	0/8	
	N/A	0/0	



02.05.01	potable water testing program in place at the building?	
Explanation & Evaluation		
	For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.	
Scoring	9/9	
	0/0	



02.05.02	Have three (3) years of water consumption been analyzed in order to establish trends?		
Explanation & Evaluation	<u>Description:</u> Analyzing water consumption data and establishing a trend can assist facilities staff and building owners better manage their buildings by detecting anomalies in water use and by harnessing the power of data extrapolated over time.		
	Requirements: Analysis of the building's water consumption must include data from at a minimum, three (3) continuous years. Establish a baseline and assess consumption patterns over time. The analysis must clearly show trends and anomalies in relation to established water savings goals. Trends need not be positive.		
	Additional Information: Ensure you are comparing the same areas and that no major renovations have occurred over the time of this trending assessment.		
	For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.		
Scoring	Yes	9/9	
	N/A	0/0	

02.05.03	Are n	Are non-potable water sources used at the building?		
Explanation & Evaluation	water	<u>Description:</u> The use of non-potable water in certain practices will reduce how much potable water is used in the building – allowing for potable water to be conserved for more critical needs, such as for drinking.		
		Requirements: Use of alternatively sourced water must make up at least 5% of the building's total water consumption.		
	Additional Information: Examples of non-potable water uses include grey water collected from condensate used as flushing water in urinals and toilets or collecting rain water to use for irrigation purposes.			
	For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.			
Scoring	Yes	9/9		
	N/A	0/0		



02.05.04	Is an innovative process or technology (approved by BOMA Canada) in place at the building that goes beyond the requirements outlined in this section?		
Explanation & Evaluation	<u>Description:</u> Many processes and technologies exist that go beyond the standards and requirements set out in the BOMA BEST Assessment. If building managers/owners have invested in innovative processes or technologies that go beyond these standards, innovation points can be earned under this question.		
	Requirements: Contact bomabest@bomacanada.ca to obtain the official submission guidelines. The BOMA BEST Technical Committee will assess each proposal to determine whether it qualifies. If pursuing this path, expect a 10-12-week delay before receiving a final decision.		
	If you have not received a formal approval for your process or technology from BOMA Canada, click "Not Applicable".		
Scoring	Submitted to BOMA Canada 0/0		
	Approved by BOMA Canada	24/24	
	N/A	0/0	



3.0 AIR



03.01.01	Is a training program on indoor air quality (IAQ) in place for Property Managers and Building Maintenance staff?	
Explanation & Evaluation	<u>Description:</u> In order for building maintenance staff to effectively maintain HVAC systems for optimal indoor air quality, training should be provided which addresses the relationship between HVAC maintenance and IAQ. The intent of the training is to equip the property manager and/or building maintenance staff with knowledge of their HVAC systems, preventative maintenance programs, common IAQ issues and remedies.	
	Requirements: The formal training program must include in person or web-based seminars on the following topics, at a minimum:	
	 A review of maintenance practices such as filter changes, coil cleaning, drain pans, humidifiers, fan operation, cooling tower maintenance, etc. A review of applicable IAQ standards and guidelines as well as building performance goals. Typical causes of IAQ complaints and suggested remedies. Training must be refreshed as HVAC systems are changed, and at least every three (3) years. A record of attendance, syllabus and competency assessment (quiz) should be kept. 	
	 Where HVAC services are contracted to a third party, the property manager and/or building maintenance staff must still be provided with basic training on IAQ, to assist in directing the HVAC service provider. 	
	Demonstration of implementation is required. The program can be common to a portfolio or campus of buildings however implementation must be building-specific.	
	Additional Information: A detailed description of suggested maintenance practices and requencies is available in ASHRAE 180 "Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems". Additional rationale for preventative HVAC maintenance practices for the benefit of indoor air quality is provided in the ASHRAE Indoor air Quality Guide < https://www.ashrae.org/resourcespublications/bookstore/indoor-air-uality-guide >.	
Scoring	Yes 14/14 No 0/14	



03.01.02	ls sm	Is smoking restricted on the property?	
Explanation & Evaluation		<u>Description:</u> To reduce the potential for exposure, there must be restrictions placed on areas where occupants, staff or visitors are allowed to smoke (including e-cigarettes).	
	Requirements: The property must provide clear signage indicating designated exterior smoking areas at, or exceeding, a minimum distance of nine (9) meters from building entrances and intakes.		
	and o	<u>Additional Information:</u> Such restrictions reduce the potential for harmful smoking products and odours from entering the building HVAC systems, and increases occupant comfort in the building exterior space. Consideration should be given to the implementation of a property-wide smoking and e-cigarette ban.	
Scoring	Yes	10/10	
	No	0/10	



3.2 ASSESSMENT

03.02.01	Does the air quality meet the goals set out in the IAQ Monitoring Plan?		
Explanation & Evaluation	<u>Description:</u> The building owner/manager must confirm at least annually that IAQ goals set out in the IAQ Monitoring Plan are being met.		
	Requirements: An IAQ audit must be conducted annually by a competent individual to confit that the parameters set out in the IAQ Monitoring Plan are being met. This audit must include at a minimum:		
	 Measurement of key IAQ parameters (temperature, relative humidity, particulate, total volatile organic compounds, carbon dioxide and carbon monoxide) at representative locations throughout the building. This must include both base building and tenant spaces. Visual inspection of all main and representative supplementary HVAC systems to confirm good hygiene. Measurements and visual inspections must match performance goals for the building set out in the IAQ Monitoring Plan. 		
Scoring	Yes	6/6	
	No	0/6	
	Unknown	0/6	



3.3 OPERATIONS & MAINTENANCE

03.03.01	Is nig	Is nighttime outdoor air purging performed at the building?	
Explanation & Evaluation	Description: Where climate and the quality of outdoor air permits, the use of nighttime air purging strategies can be employed to both pre-cool and purge air in a building for the next day. This practice goes above and beyond the use of economizers that may operate in order to use free cooling during daytime hours. Requirements: A minimum of two (2) full air changes of the building must be provided when temperatures are suitable. Purging must use a high percentage of outdoor air (at least 75%). Demonstrate that purging is performed regularly as part of standard operations (whenever possible). Additional Information: Purging operating times are dictated by outdoor and building temperatures and should be performed after occupied periods, typically Monday to Friday. Select Not Applicable if all HVAC equipment is owned, managed and maintained solely by		
	tenants.		
Scoring	Yes	8/8	
	No	0/8	
	N/A	0/0	



3.4 BUILDING SYSTEMS

03.04.01	What MERV filters are in use for all outdoor air and ret	urn air (i.e. circulating air) systems?		
Explanation & Evaluation	<u>Description:</u> Use of MERV 8 or greater filtration systems significantly reduces levels of indoor contaminants and prevents build-up of particulate and debris on HVAC components. Filtration of return-air (from systems such as compartment units, fan-coil units, heat pumps) prevents recirculation of occupant-generated contaminants.			
	Requirements: All filters must be rated as per ASHRAE 5	2.2.		
	Filters must be replaced at or before the pre-determined exceeding the manufacturer's specifications and ASHRAI Standard). To demonstrate compliance:			
	 Provide evidence of the MERV filter rating (e.g., Provide evidence of the agreed upon change-or or time as agreed to by the building manager; A Provide preventative maintenance logs in the P show that the filters are being replaced at the a 	ut point, based on either pressure drop ND reventative Maintenance Program to		
	Additional points are awarded if the filters maintain their MERV rating when tested in accordance with ASHRAE 52.2 Appendix J. To demonstrate compliance, provide the test representation of the manufacturer or supplier showing all the following:			
	 The MERV rating; AND The MERV-A efficiency testing results; AND Attestation that the test has been conducted as per ASHRAE 52.2 standards; AND Testing company signature or stamp and date. 			
	<u>Additional Information:</u> Installation of filtration systems that meet ASHRAE Minimum Efficiency Reporting Value (MERV) 8 will prevent larger outdoor air contaminants such as mould spores, pollen, some dusts, and aerosols from entering the HVAC system.			
	Installation of filtration systems that meet ASHRAE Minimum Efficiency Reporting Value (MERV) 13 to 16 prevent up to 90% of fine outdoor air contaminants such as mould spore pollen, dusts, and aerosols from entering the HVAC system. If a combination of filters is used, select the highest MERV rating representative of at leas of all filters. Select Not Applicable if all HVAC systems are owned, managed, and maintain solely by tenants.			
Scoring	MERV 7 or below	0/10		
	MERV 8-12	4/10		
	MERV 8-12 (ASHRAE 52.2, Appendix J)	6/10		
	MERV 13-16	8/10		
	MERV 13-16 (ASHRAE 52.2, Appendix J)	10/10		
	N/A	0/0		



03.04.02		Do all high traffic entryways have track-off systems such as grills, grates or matting in place throughout the year?		
Explanation & Evaluation	trans	Description: Many indoor air contaminants such as bacteria, soils, and mould can be transported into a building by the occupants. An entryway system to capture contaminants tracked in on footwear should be employed.		
	reduc perm	Requirements: Grills, grates or matting must be in place throughout the year in order to reduce particulate and other contaminant transfer. Track-off systems need not be permanent fixtures but must be cleaned and replaced as necessary. The matting system should be 12 -15 feet long, where permissible.		
	Descr	Describe how these systems are used, cleaned and maintained.		
	Additional Information: An ideal set up for a main entrance consists of an outside scraper mat, foyer mat and an inside carpet mat. The ASHRAE IAQ Guide section 3.5 describes the factors to be considered in determining the appropriate track-off system including traffic load, aesthetics, dominant contributors and local environmental conditions.			
Scoring	Yes 8/8			
	No 0/8			









4.2 ASSESSMENT

04.02.01	Is the building designed such that potential accessibility barriers are addressed?			
Explanation & Evaluation	genei	<u>Description:</u> The design of the site features and the base building must ensure that areas generally accessed by the public are accessible and meet current barrier-free or accessibility standards or guidelines governing the facility.		
	Where the construction of the facility predates the guidelines, owners are encouraged to renovate and to provide barrier-free paths of travel to and in the facility. The design or renovation must accommodate all people, irrespective of their level of ability.			
	Requirements: The building must comply with current building codes, standards and regulations through consultation with the local jurisdiction, such as the building code, AO Integrated Accessibility Standards Regulation or Americans with Disabilities Act (ADA). Where multiple local regulations, standards and building codes exist, the strictest shall apply.			
	Additional Information: Select Not Applicable if these criteria cannot be met due to herital conservation requirements. Provide evidence of the relevant heritage elements that cannot be modified.			
Scoring	Yes 14/14			
	No	0/14		
	N/A 0/0			



4.3 OPERATIONS & MAINTENANCE



4.4 BUILDING SYSTEMS



04.05.01	Do frequently occupied spaces have radiant building surfaces?		
Explanation & Evaluation	<u>Description:</u> Radiant surfaces provide occupants with enhanced thermal comfort. <u>Requirements:</u> Provide radiant building surfaces (such as radiant panels, thermally active slab/ceiling, and chilled beams) to frequently occupied spaces. These surfaces may provide main or supplemental heating for the occupied space.		
	For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.		
Scoring	Yes	8/8	
	N/A	0/0	

04.05.02	Is the building currently certified with the Rick Hansen Foundation Accessibility Certification™?			
Explanation & Evaluation	Description: The Rick Hansen Foundation Accessibility Certification™ (RHFAC) is a rating system developed to help property owners and managers measure the accessibility of their sites and promote increased access through the adoption of Universal Design principles. The program measures a site's level of meaningful access based upon CSA B651 standards that considers the holistic user experience of people of all abilities, including those with mobility, vision, and hearing disabilities.			
	Requirements: All spaces managed and controlled by the building manager must have achieved RHF Accessibility Certified or RHF Accessibility Certified Gold. The certified space must include all areas that are available to the public and employees and may exclude tenanted spaces or restricted areas (e.g. boiler room, biohazardous areas). If a tenant occupies a whole site, all areas will be considered common and must be rated RHFAC to be eligible. The space must be currently certified with RHFAC at the time of the BOMA BEST verification, as demonstrated by the RHFAC Certificate.			
	Additional Information: For more information, visit the Rick Hansen Foundation Accessibility Certification™ website.			
	For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.			
Scoring	Yes - RHF Accessibility Certified Gold Yes - RHF Accessibility Certified	16/16 12/12		
	N/A	0/0		



5.0 HEALTH & WELLNESS





ТМ				
05.01.01	Is a Legionella Bacteria Control Management Program in place at the building?			
Explanation & Evaluation	Requirements: Develop and implement for Legionella susceptible water systems a Legionella Bacteria Control Management Program that is compliant with ASHRAE 188 "Legionellosis: Risk Management for Building Water Systems" and Public Works and Government Services Canada's "Control of Legionella in Mechanical Systems".			
	The following systems must be considered for Legionella susceptibility, at a minimum:			
	 Cooling towers and evaporative condensers; Aerosol-generating misters, atomizers, humidifiers; Hot and cold water systems; Domestic hot water storage tanks; Open air systems (such as decorative fountains); and Whirlpool Spas. 			
	For compliance, the <i>Legionella</i> Bacteria Control Management Program must include consideration of the following components: :			
	 Program team (identification of the persons responsible for developing and implementing the program, and the tasks for which they are responsible); Water system flow diagrams; Analysis of building water systems; 			
	 Water sampling protocol (includes monthly testing of hot water storage tanks, cooling tower and hot and cold water distribution systems; Control measures; 			
	Monitoring and corrective actions;Confirmation;			
	Documentation;			
	Training; Amount review and undetermined.			
	 Annual review and update. Risk analysis and monitoring of control measures must be documented and kept current. At a minimum, the program must be reviewed every 12 months to ensure risks associated with legionella susceptible systems are mitigated. 			
	The program must be developed and executed by a person competent in Legionella mitigation measures.			
	Where <i>Legionella</i> susceptible systems are owned and maintained by the tenants, the building owner/manager must provide information on how to implement a Legionella bacteria control management program. Tenants must be encouraged to disclose <i>Legionella</i> susceptible systems on-site and participate in the <i>Legionella</i> bacteria control management program.			
	Demonstration of implementation is required. The program can be common to a portfolio or campus of buildings however implementation must be building-specific.			
	Additional Information: The program team should include the building owner or designee, employees, consultants and contractors.			
	The building water systems should be described in the form of a flow diagram, to assist in analyzing the areas of risk and determining sampling locations. Where necessary, control measures such as preventative maintenance, inspections and water treatment should be implemented. These control measures must be monitored to ensure they are effective (for example, through routine sampling activities and checking temperatures of hot water once a month).			
	Select Not Applicable if there are no <i>Legionella</i> susceptible systems in the building.			



Scoring	Yes	16/16
	No	0/16
	N/A	0/0

05.01.02	Is a Ref	rigerant Safety Program in place at the building?	
Explanation & Evaluation	<u>Description:</u> Some refrigerants present both a health and environmental hazard. Safety measures should be employed to reduce the potential for releases.		
	Requirements: Develop and implement a Refrigerant Safety Program compliant with CSA Mechanical Refrigeration Code B52-13 and ASHRAE Standard 15-2013 "Safety Standard for Refrigeration Systems" for large base building systems where leaks will have significant impacts on indoor air quality or climate.		
	The foll	owing systems must be considered, at a minimum:	
	•	HVAC;	
	•	Industrial refrigeration or water systems;	
	•	Domestic fridges/freezers and stand-alone water coolers are excluded from consideration.	
	For com	npliance, the Safety Program must include consideration of the following nents:	
	•	Identification of refrigerant systems and inventory;	
	•	Proper operation, testing and maintenance;	
	•	Presence of safeguards, such as sensors; Signage;	
	•	Proper storage;	
	•	Emergency shutdown procedures;	
	•	Training for building staff working on equipment containing refrigerants; Use of licensed personnel, where required.	
	The Refrigerant Safety Program may be a campus-wide or corporate document but should include building specific inventory and safety considerations. Tenants must be encouraged to disclose refrigerants on-site and participate in the Safety Plan (may be part of the lease agreement).		
	Where refrigerant equipment is owned and maintained by the tenant, the building owner/manager must provide information on how to implement a Refrigerant Safety Program. Tenants must be encouraged to disclose any halocarbon fire suppressant systems within their space.		
	Demonstration of implementation is required. The program can be common to a portfolio or campus of buildings however implementation must be building-specific.		
	Additio	nal Information: Select Not Applicable if there are no refrigerants on-site.	
Scoring	Yes	12/12	
	No	0/12	
	N/A	0/0	



05.01.03	Is a s	Is a safety program in place for halocarbon fire suppression systems?	
Explanation & Evaluation	<u>Description:</u> Halon is an ozone depleting substance as well as an indoor atmospheric (oxygen displacing). Use of halon in fire-suppression systems has been banned in majurisdictions.		
	Requirements: Develop and implement safety program for halocarbon fire suppression systems in the building.		
		ompliance, the safety program must include consideration of the following ponents:	
	• F	nventory of halocarbon fire suppressants greater than 10 kg; Procedures for leaks; Procedures for disposal;	
	 Training; and Annual review and update. The safety and global warming potential of non-halon fire suppression systems must als assessed and where necessary, controls should be put in place to prevent exposures and releases. 		
owner/manager must provide information on how to implement a safety halocarbon fire suppression systems. Tenants must be encouraged to disc		re refrigerant equipment is owned and maintained by the tenant, the building er/manager must provide information on how to implement a safety program for arbon fire suppression systems. Tenants must be encouraged to disclose any carbon fire suppression systems within their space.	
	Demonstration of implementation is required. The program can be common to a portfoliogram campus of buildings however implementation must be building-specific.		
	<u>Additional Information:</u> Select Not Applicable if there are no halocarbon fire suppression systems in the building.		
Scoring	Yes	14/14	
	No 0/14		
	N/A	0/0	



05.01.04		Is a management program in place at the building for above or below ground fuel storage tanks (AST/UST)?	
Explanation & Evaluation	<u>Description:</u> A management program for AST/UST will prevent ground water and soil contamination.		
	"Envir Conta	rements: Develop and implement a management program compliant with the conmental Code of Practice for Aboveground and Underground Storage Tank Systems ining Petroleum and Allied Petroleum Products" < https://www.ec.gc.ca/lcpedefault.asp?lang=En&n=61B26EE8-1>, developed by Environment Canada.	
		ompliance, the management program must include consideration of the following onents:	
	 Inventory; Registration with local authorities, where applicable; Tank upgrading/replacement; Testing; Spill protection; Emergency preparedness; Record keeping; and Training. Where fuel storage tanks are owned and maintained by the tenant, the building owner/manager must provide information on how to implement a fuel storage tank management program. Tenants must be encouraged to disclose the installation of any 		
	Demo	e or below ground fuel storage tanks. Instration of implementation is required. The program can be common to a portfolio inpus of buildings however implementation must be building-specific.	
		ional Information: Select Not Applicable if there are no above or below ground fuel ge tanks.	
Scoring	Yes	6/6	
	No	0/6	
	N/A	0/0	



5.2 ASSESSMENT

05.02.01	Has a	radon risk assessment been completed for the building?	
Explanation & Evaluation	<u>Description:</u> Radon is a colourless, odourless, naturally occurring radioactive gas present in soil, rock and water. In indoor environments, radon gas can penetrate the building envelope and accumulate in hazardous concentration levels. Radon is a risk everywhere and testing is therefore recommended, even in "low-probability areas" (Health Canada, C-NRPP).		
	in dir	irements: Radon testing must occur in all occupied areas where the floors or walls are ect contact with the ground or a crawl space. Health Canada defines an occupied area e that is, or may be, occupied by an individual for four (4) hours per day. If none of the nd contact floors are occupied, test all occupied rooms on the first occupied floor level e.	
	Long term measurement of these areas is required for a minimum of 91 days. The professional accredited by the Canadian National Radon Proficiency Program (C-NRPP) we determine the valid 91-day testing period for the building during the heating season.		
	Measurement devices approved by C-NRPP must be used. The radon risk assessment repmust be signed by an individual certified by the Canadian National Radon Proficiency Program (www.C-NRPP.ca). Final analysis must be completed by a laboratory certified by NRPP. Note, not all measurement protocols require laboratory analyses (e.g., E-PERM Electrets) so long as the analyst is accredited to conduct that analysis through C-NRPP.		
	Additional Information: The Guide for Radon Measurements in Public Buildings recommends an action level of 200 Becquerel per cubic meter (Bq/m³) to minimize health hazards due to indoor radon exposure.		
	In the event of high radon test results, the <u>Guide for Radon Measurements in Public Buildings</u> recommends conducting additional diagnostic testing on the upper floors. High radon levels can potentially exist on upper floors due to the upward movement of air from stack effect or if radon is suspected to be emanating from building materials. This diagnostic testing can be conducted using a continuous radon monitor (CRM).		
Scoring	Yes	14/14	
	No	0/14	



5.3 OPERATIONS & MAINTENANCE

05.03.01	Are radon levels currently below 200 Bq/m³ or are mitigation strategies being implemented within recommended timeframes to bring radon concentrations to within acceptable limits?			
Explanation & Evaluation	<u>Description:</u> Serious health hazards are present where radon concentrations exceed 200 Bq/m3. If levels are detected below 200 Bq/m³ no further testing is required unless major renovations are performed that could significantly impact airflow in the building. Other exceptions include change of use in the lowest-occupied levels.			
	Requirements: Where radon concentrations have been detected between 200 and 600 Bq/m3, remedial action must be taken within two (2) years of detection. For radon concentrations above 600 Bq/m3, remedial action must be taken within one (1) year of detection.			
	Applicants implementing remedial strategies at the time of BOMA BEST verification must provide a copy of the mitigation strategy plan signed by an individual certified by the Canadian National Radon Proficiency Program (C-NRPP) and demonstrate that the mitigation strategies (such as active soil depressurization and mechanical ventilation) are being implemented within the required timeframe (specified above).			
	Applicants who have previously implemented mitigation strategies must demonstrate that re-testing has occurred, including testing of all pre-mitigation locations at a minimum, following Health Canada Guidelines, with no results greater than 200 Bq/m3. Results from the post-mitigation re-testing must be signed by an individual certified by C-NRPP.			
	Additional Information: It should be noted that, while the health risk from exposure below 200 Bq/m3 is small, it may be possible to reduce it even further through reme			
Scoring	Yes	8/8		
	No	0/8		



5.4 BUILDING SYSTEMS



5.5 INNOVATION

05.05.01	Is the building currently Fitwel certified?			
Explanation & Evaluation	<u>Description:</u> Design, operations, and quality of the built environment can have a positive impact on population health. Fitwel certification supports healthier workplace and multifamily residential environments, improving occupant health and productivity by addressing a broad range of health behaviours and risks.			
	Requirements: The building must have achieved a Fitwel certification for a recognized Project Type (either "multi-tenant base building", "multi-tenant whole building" or "single-tenant building" – "commercial interior spaces" is <i>not</i> eligible). The building must be currently certified with Fitwel at the time of the BOMA BEST verification, as demonstrated by the Fitwel Certificate.			
	Additional Information: For more information, contact info@bomabest.org			
	For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.			
Scoring	Yes - 3 Star	16/16		
	Yes - 2 Star	12/12		
	Yes - 1 Star	8/8		
	N/A	0/0		



6.0 PURCHASING



7.0 CUSTODIAL



7.1 DEMONSTRATION OF INTENT

07.01.01	Are details about the green cleaning initiative shared with building occupants?		
Explanation & Evaluation	Description: Tenants and building staff are stakeholders in the effective cleaning of the building. Sharing details about the green cleaning initiatives in place at the building will encourage feedback and generate enthusiasm for such initiatives.		
	<u>Requirements:</u> Provide occupants with details about the green cleaning initiative, such as green cleaning protocols, custodial goals, cleaning logs and Standard Operating Procedure (SOPs) where custodial services are contracted (as provided by the contractor).		
	Additional Information: These may be communicated in a tenant booklet, website, memorandum or posters. Cleaning logs should be made available for review upon request. Cleaning logs must include the date maintenance tasks were performed and by whom.		
	Select Not Applicable if cleaning is performed exclusively by individual tenants.		
Scoring	Yes	7/7	
	No	0/7	
	N/A	0/0	



7.2 ASSESSMENT



7.3 OPERATIONS & MAINTENANCE

07.03.01	Are p	est reduction strategies in place at the building?
Explanation & Evaluation		<u>ription:</u> Unhygienic conditions can result in the presence and proliferation of organisms produce harmful or irritating byproducts.
		<u>lirements:</u> To minimize the potential for such organisms to thrive, the following three est reduction strategies must be in place:
	•	 Food storage in sealed containers with daily disposal; Proactive inspection for evidence of pests at least monthly; and The use of environmentally preferable pesticides, if necessary.
	The p	pest reduction strategies must be reviewed every 12 months and updated as necessary.
	The building owner/manager must provide information on how to implement p strategies and tenants must be encouraged to participate.	
Scoring	Yes	8/8
	No	0/8



7.4 BUILDING SYSTEMS



7.5 INNOVATION



8.0 WASTE



8.1 DEMONSTRATION OF INTENT

08.01.01	Is a Sc	ource Separation Program in place at the building?		
Explanation & Evaluation	<u>Description:</u> A Source Separation Program facilitates the separation of waste at the point of generation for recycling and waste destined for disposal.			
	Requirements: The source separation program must, at a minimum, include the collection of paper, metal cans, glass, plastic containers and cardboard unless there is no regional collection service for a specific material category (demonstrate that this is the case) and the separate collection of waste destined for disposal.			
	The so	ource separation program must consist of the following components:		
	 Facilities that are adequately sized for the collection, handling and storage of source-separated wastes. The collection and storage of the various materials destined for recycling may be co-mingled based on the requirements of the local markets as long as they are always kept separate from waste destined for disposa and as long as the separation is done at a Materials Recycling Facility and not at a transfer station. The provision of information and guidance to users (e.g., signs), potential users and custodial staff describing the expectations of the program and encouraging effective source separation of waste to minimize contamination and to ensure full use of the program. Measures to ensure that the source-separated collected wastes are removed by a licensed service provider and taken to destination sites designed for the proper processing and/or disposal of each material category (reports from the service provider should transparently demonstrate this). Reasonable efforts are made to ensure that the separated waste is reused or recycled. 			
	Demonstration of implementation is required. The program can be common to a portfolio or campus of buildings however implementation must be building-specific.			
	Additional Information: The contamination of recyclable material does not disqualify this requirement, though continued contamination should be addressed in the Waste Reduction Work Plan.			
	Off-site sorting such as at a transfer station from a single common receptacle does not qualify as source-separation in the context of the BOMA BEST application.			
	Buildings that have achieved a certification through the 3RCertified program can a "Yes" and show their certification to the verifier. 3RCertified http://3rcertified.ca a certification program for buildings in the Industrial, Commercial and Institutiona sectors that reviews how organizations manage solid waste reduction and diversic operations. It is available across Canada.			
	Select	Not Applicable if waste is managed solely by tenants.		
Scoring	Yes	8/8		
	No	0/8		
	N/A	0/0		



08.01.02	Is a W	aste Reduction Work Plan in place at the building?	
Explanation & Evaluation	<u>Description:</u> A waste reduction plan is an action plan prepared to reflect the updated waste audit.		
	Requi	rements: The Waste Reduction Work Plan must consist of the following components:	
	 The Waste Reduction Work Plan must be prepared in conjunction with the waste audit (conducted in the past three (3) years). Its content should reflect the updated audit. The waste reduction work plan must address all recycling streams in the building, describing ways to increase recycling levels and reduce the waste generated. The Waste Reduction Work Plan must include, to the extent that is reasonable, plans to address the 3Rs (Reduce, Reuse, and Recycle) hierarchy: Reduction first, followed by Reuse and then Recycling. The waste reduction work plan may fit under a larger waste management plan but must be action oriented and include identification and planning for the prevention, reduction and diversion of each identified waste stream. The Waste Reduction Work Plan sets out, for each initiative or action, those who will implement that action or initiative, timelines for implementation and the expected results. The results should be expressed as a specific diversion target and can be an overall target for all combined waste categories or a target per waste material category. The Waste Reduction Work Plan must be available and communicated to all members of management, the maintenance, custodial and contracted cleaning staff, and all tenants or occupants including food service providers and other retail tenants (for example via the building's website or intranet service, posting in waste and recycling depot, or in the tenant manual). The Waste Reduction Work Plan must be reviewed every three (3) years to reflect changes in the building strategy, challenges and achievement. In the case of a BOMA BEST Recertification, 		
	and objectives have been met. Although demonstration of implementation is preferable, it is not necessary. The plan can be common to a portfolio or campus of buildings however building-specific information is		
	required.		
	Additional Information: The Waste Reduction Work Plan targets the collection programs for which the building manager or owner is responsible.		
	Buildings that have achieved a certification through the 3RCertified program can answer "Yes" and show their certification to the verifier. 3RCertified http://3rcertified.ca/home is a certification program for buildings in the Industrial, Commercial and Institutional (IC&I) sectors that reviews how organizations manage solid waste reduction and diversion operations. It is available across Canada.		
	Select	Not Applicable if waste is managed solely by tenants.	
Scoring	Yes	10/10	
	No	0/10	
	N/A	0/0	



08.01.03		rogram in place at the building to minimize construction, renovation and/or demolition e being sent to landfill?	
Explanation & Evaluation	dispo	ription: Construction and demolition waste – which accounts for about 30% of Canada's sal – can be reduced by implementing a source separation and recycling program on-site. irements: The program must clearly describe the procedure for achieving waste diversion	
	goals during future renovation. Each renovation project within the site boundary (including tenant spaces) must establish waste diversion goals, target five materials for diversion and identify waste diversion strategies to be used.		
	The p	rogram must include the following components:	
	•	A Material Source Separation Plan (MSSP) so that discarded materials are sorted into corresponding bins for separation and reuse/recycling and hauled offsite by a verified hauler;	
	•	Roles and Responsibilities for implementing the MSSP; Material Handling;	
		Waste Tracking;	
		Waste Reporting; Communications to relevant parties; and	
	•		
		onstration of implementation is required. The program can be common to a portfolio or us of buildings however implementation must be building-specific.	
	Additional Information: The program must meet the minimal requirements of the jurisdic (e.g., 3R Code of Practice). The specifications should address the recycling of the following construction waste materials, including but not limited to:		
	•	Wood (treated and untreated, composite and lumber);	
		Asphalt; Steel and other metals;	
	•	Insulation (fiberglass, mineral, expanded polystyrene (EPS), etc.);	
	•	Plastics;	
	•	Asphaltic and composite roofing products; and, General worker-generated waste.	
	The following materials should be excluded from the program (and waste diversion calculations):		
	•	114241 4040 114401410 (11611 1644) 40200000)	
	•	Excavated materials (includes soil); and,	
	•	Materials that are used as landfill cover or in a land reclamation project.	
Scoring	Yes	8/8	
	No	0/8	



08.01.04	Aro co	mmunication strategies in place to promote a greater understanding of the Waste
08.01.04		mmunication strategies in place to promote a greater understanding of the Waste tion Work Plan?
Explanation & Evaluation	develo releva	ption: Given that all building occupants contribute to the generation of waste, oping and implementing ongoing, strategic communication initiatives directed to not parties will help ensure that the waste diversion program is successful. The following two (2) communication strategies must be in place:
	•	Proper and instructive signage on all waste collection containers/bins (ongoing); Up-to-date written instructions and guidance on the expectations of the collection and storage of the divertible and disposed materials to the on-site custodial staff (ongoing).
		nstrate that at least one (1) additional communication strategy has been implemented. stions are provided below (minimum frequency provided in brackets):
	•	Posters, emails, newsletters, web or intranet site, social media, floor maps, Earth Week and/or Waste Reduction Week events, tenant engagement events, awards programs, targeted at all users (varies, posters ongoing, bi-monthly for emails, newsletters, and sites, events bi-monthly);
	•	In person meetings with tenant groups - Green Teams(bi-monthly at a minimum); Lobby displays during events of acceptable materials in the recycling program (bi-monthly at a minimum); Materials Recycling Facility tours for tenants, and building staff (offered monthly at a
	•	minimum); Feedback on the results of the annual waste audit and initiatives in the Waste Reduction Work Plan, etc. (bi-monthly at a minimum).
		onal Information: Relevant parties include any stakeholders that generate, manage, r dispose of solid waste on the premises, such as:
	•	Internal stakeholders: employees, tenants of all types, custodial staff and security; and
	•	External stakeholders: customers/visitors, suppliers, temporary and contract labour and other contractors, and waste and recycling service providers.
	and sh certific that re	ow their certification to the verifier. 3RCertified http://3rcertified.ca/home is a cation program for buildings in the Industrial, Commercial and Institutional (IC&I) sectors eviews how organizations manage solid waste reduction and diversion operations. It is also caross Canada.
	Select	Not Applicable if waste is managed solely by tenants.
Scoring	Yes	7/7
	No	0/7
	N/A	0/0



8.2 ASSESSMENT

08.02.01	Has a	Waste Audit been completed for the building in the past three (3) years?		
Explanation & Evaluation	Descri audit.	ption: The Waste Reduction Plan is an action plan that reflects the updated waste		
		Requirements: Following the BOMA BEST Waste Auditing Requirements, the Waste Audit must address:		
	 The time period and duration of the waste sampling; The sample size (representing at least 10% of the total building's waste and recycling materials); The location and stream of the waste (identify the generation area based on gene activity types – such as "retail area" or "office area" as well as the collection strea to which it belongs); and How the waste data was categorized, evaluated and analyzed based on its composition (the site must be equipped with a minimum number of work tables, precise scales and mobile containers for weighing the waste). The resulting Waste Audit Report must include: Summary of the sampling protocol and methodology used. Annualization of daily waste as well as other waste stream such as construction, renovation and demolition (CRD) waste and hazardous materials. Total of each waste stream and overall total. Diversion rate. Capture rate. Summary of recommendations for improving waste diversion. The audit must be performed by a person with adequate qualifications as well as suitable training and experience. 			
	Additional Information: For a complete list of all information to be included in the waste			
In the howe weight order diver		report, please refer to the <u>BOMA BEST Waste Auditing Requirements</u> . case of tenant-managed waste streams, these need not be included in the waste audit ver best practices recommend that tenants provide annual generation and disposal treporting for all materials that they collect independent of the building system in to calculate current diversion. If tenant-managed waste streams are included, both the lible materials and disposal material must be included. If tenant-managed waste are included in the diversion rate, they must also be included in the audit.		
	The Waste Audit must be performed at the building and must not be based on generalized waste facility averages.			
"Yes" and show their certification to the verifier. 3RCertified is a certificat buildings in the Industrial, Commercial and Institutional (IC&I) sectors tha		ngs that have achieved a certification through the 3RCertified program can answer and show their certification to the verifier. 3RCertified is a certification program for ngs in the Industrial, Commercial and Institutional (IC&I) sectors that reviews how izations manage solid waste reduction and diversion operations. It is available across ia.		
	Select	Not Applicable if waste is managed solely by tenants.		
Scoring	Yes	5/5		
	No	0/5		
	N/A	0/0		



08.02.02	What is the bu	ilding's Reduce, Reuse, Recycle (3Rs) diversion rate?		
Explanation & Evaluation	<u>Description:</u> The Diversion Rate is the proportion by weight of all waste diverted from disposal (i.e., landfill or incineration) to the total weight of all waste material generated, expressed as a percentage. This number must not include contaminated waste. The following activities are considered diversion actions: actions to prevent waste materials from being generated, actions to reduce material generation, reuse (internal or external), source-separated recycling, composting (on-site or off-site.) Materials that are treated with thermal applications (incineration or EFW) are not considered diverted. The diversion rate can be determined through various methods and combinations such as hauler records, waste audit, etc.			
	Requirements:			
	Determine the	building's diversion rate based on the following calculation: [A / (A+B)] x 100		
	A = Annual wei	ght of all materials currently diverted from disposal		
	B = Annual wei and EFW)	ght of all materials currently sent for disposal (includes landfill, incineration		
	· ·	nual weight in metric tonnes or kilograms.		
	The diversion r three (3) years.	ate must be based on 12 months of data. Data cannot be older than the past		
	Additional Info	ermation: Only include materials for which there is an established market in		
	Annual weight of all materials currently diverted from disposal includes daily generate waste, but also all other materials diverted from building activities such as e-waste, batteries, lamps, scrap metal, wood debris, etc., that may not be captured by the was audit.			
	Annual weight of all materials currently sent for disposal does not include hazardous was such as hazardous industrial waste, chemicals, PCBs, or waste that is ignitable, corrosive reactive, pathological, leachate or radioactive. It can include construction, renovation and demolition project waste if it was also included in the waste audit.			
	Select Not Applicable if waste is managed solely by tenants.			
Scoring	90%-100%	15/15		
	80%- 89.9%	12/15		
	70-79.9%	9/15		
	60-69.9%	6/15		
	50-59.9%	3/15		
	40-49.9%	2/15		
	30-39.9%	1/15		
	Under 30%	0/15		
	Unknown	0/15		
	N/A	0/0		



08.02.03	What is the b	uilding's capture rate?				
Explanation & Evaluation	from disposal have been div waste. Captur	The Capture Rate is the proportion by weight of all waste <i>currently</i> diverted (i.e., landfill or incineration) to the total weight of all waste material that <i>could</i> erted, expressed as a percentage. This number must not include contaminated be rate calculations are based on all existing opportunities to divert waste lable in your region, not just the materials collected in the building.				
	from being ge source-separa	activities are considered diversion actions: actions to prevent waste materials nerated, actions to reduce material generation, reuse (internal or external), ated recycling, composting (on-site or off-site.) Materials that are treated with cations (incineration or EFW) are not considered diverted.				
	Requirements	<u>s:</u>				
	Determine the	e building's capture rate based on the following calculation: [A / (A+C)] x 100				
	A = Annual we	eight of all materials currently diverted from disposal				
		eight of all materials that <i>could have been</i> diverted from disposal, but were tream headed for disposal				
	Express the ar	nnual weight in metric tonnes or kilograms				
	The capture rate must be based on 12 months of data. Data cannot be older than the past three (3) years.					
	Additional Information: Only include materials for which there is an established market in the calculation.					
	Annual weight of all materials currently diverted from disposal includes daily generated waste, but also all other materials diverted from building activities such as e-waste, batter lamps, scrap metal, wood debris, etc., that may not be captured by the waste audit.					
	Annual weight of all materials that could have been diverted from disposal includes the same as the above however these materials were found in the stream headed for disposal. Select Not Applicable if waste is managed solely by tenants.					
Scoring	90-100%	10/10				
	80%- 89.9%	8/10				
	70-79.9% 6/10					
	60-69.9% 4/10					
	50-59.9% 2/10					
	Under 50% 0/10					
	Unknown	0/10				
	N/A	0/0				
		I				



08.02.04	Is there evidence of a reduction in the overall generation of waste relative to your baseline year?		
Explanation & Evaluation		<u>Description:</u> To understand whether an initiative is producing results, it is important to compare waste data from the most recent audit year to baseline data.	
	Requirements: Review the total waste generated from the most recent previous waste audit (the baseline) and compare these numbers to the most current waste audit conducted no later than three (3) years prior to the application date.		
	Additional Information: In some cases, reduction levels cannot be easily demonstrated due to an increase in the number of tenants or occupants in the building. In such cases, use per capita generation rates (also called waste intensity) to determine overall reduction. Per capita generation is calculated by taking the total annual waste generated (waste destined for disposal, reuse or recycling) and dividing this by the number of building occupants. Daily per capita generation rates are determined by dividing by the number of working days per year. An improvement in waste diversion rates is not sufficient unless it is also accompanied by a reduction in the total overall generation of waste.		
	Select Not Applicable if no waste audit is available, if the most recent waste audit is considered as the baseline or if waste is managed solely by tenants.		
Scoring	Yes	6/6	
	No	0/6	
	N/A	0/0	



8.3 OPERATIONS & MAINTENANCE

08.03.01	Are any of the following was	te diversion initiatives in place at the building?		
Explanation & Evaluation	<u>Description:</u> Reduction initiat activities.	cives encourage staff/tenant participation in waste diversion		
	<u>Requirements:</u> Demonstrate that waste diversion initiatives have been implemented in the building.			
	Additional Information: Selec	ct all that apply.		
	Reduction initiatives can inclu	ide but are not limited to:		
	 Purchasing policies and initiatives that result in reduced waste thanks to a reduction of packaging at source or by investing in products that have a longer life (e.g., filters for HVAC). Electronic communication initiatives that result in a reduction of paper use. Bulk dispensing in building staff/tenant kitchenettes or in cafeterias and other food service areas that minimize the use of single use disposable items. Food waste reduction or diversion programs with on-site cafeterias, restaurants or 			
	 coffee shops. Use of china and reusable utensils as an option for patrons in the building cafeteria, food court and office kitchenettes. Implementing a paper use accountability system. Clauses in supplier contracts that require "take back" programs where the supplier can guarantee that at least 70% of the returned products will be diverted from landfill. The installation of carpet tiles that eliminate the need to replace entire carpets. 			
		nitiated by either building management or the tenants.		
Scoring	Packaging reduction	4/24		
	Electronic communication	4/24		
	Bulk dispensers	4/24		
	Food waste diversion	4/24		
	Reusable china and utensils	4/24		
	Paper accountability system	4/24		
	Take back programs	4/24		
	Removable carpet tiles	4/24		
	Other	4/24		
	None	0/24		



08.03.02	Has the recycling program been expanded to include any of the following waste materials?		
Explanation & Evaluation	<u>Description:</u> In addition to the typical list of designated materials for source separation that most regions accept for recycling (paper, containers, cardboard) or composting (food waste) many organizations expand their collection programs to include other reusable/recyclable materials (where a demonstrated end-market exists).		
	Requirements: Demonstrate that the recycling program for additional materials h implemented.	as been	
	Additional Information: Tenant-led collection initiatives may also qualify as long a management is taking steps to publicize the initiative building-wide.	s building	
Scoring	Batteries	2/16	
	Electronics	2/16	
	Ballasts, fluorescent tubes, CFL and lamps containing mercury		
	Coffee cups		
	Coffee pods		
	Organic food material for composting (if not already offered by the municipality)	2/16	
	Low grade paper	2/16	
	Grease/cooking oil	2/16	
	Toner cartridges	2/16	
	Wood	2/16	
	Scrap metal	2/16	
	Furniture		
	Merchandise bulk packaging (shrink wrap, Styrofoam)	2/16	
	Other waste material	2/16	
	None	0/16	



08.03.03		Are reuse initiatives in place at the building that have the potential to result in less waste disposed?		
Explanation & Evaluation		<u>Description:</u> To reuse is to use an item for the second (or third) time either for the same function or in another application.		
	Requ	<u>uirements:</u> Demonstrate that at least one (1) reuse initiative has been implemented.		
	Addi	tional Information:		
	Some	e examples of reuse include but are not limited to:		
	 The establishment of a Reuse Centre to put usable office supplies back into circulation, such as file folders, binders, etc. Community reuse partnerships with charities and other organizations for the reu obsolete items, such as furniture and fixtures. Waste exchanges internal to the organization, such as reusing furniture, comput or other obsolete items within the portfolio of buildings. 			
		 The use of reusable shipping containers to send or receive goods and supplies. 		
	Reuse programs can be initiated by either the building management or the tenants.			
Scoring	Yes	8/8		
	No	0/8		



8.4 BUILDING SYSTEMS



8.5 INNOVATION

08.05.01	Are recycling bins provided to staff, tenants and visitors for point of generation collection throughout the building?	
Explanation & Evaluation		ption: Provide waste and recycling bins at points of generation throughout the building as such as offices, kitchens, copy and print rooms, boardrooms and washrooms.
	Requirements: Central bins must capture the following materials separately:	
	•	Paper/newspaper/magazines;
	•	Cans/glass/plastics (#1, 2, 5, 6, other);
	•	Waste destined for disposal.
		bins must be accessible throughout the building at frequent enough intervals to modate the number of occupants and visitors to the building.
		ce areas, provide two deskside bins at a minimum, one for paper and one for class/plastic. Copy and print rooms must capture paper separately from waste destined posal.
	Food o	courts and cafeterias must capture the following materials separately:
	•	Cans/glass/plastics (#1, 2, 5, 6, other);
	•	Compost (if such a program is in place at the building);
	 Waste destined for disposal. All bins, in all space types, must have clear signage/labelling showing what specific items can be placed in the bin (must match what can actually be diverted in that area). Provide training to tenants (e.g., as part of initial welcome package) and update the training as required. Provide training to custodial staff at inception of recycling program, and upon staff turnover. Update training as required. 	
	In the case where tenants are solely responsible for waste management, then the property manager must provide communication to tenants via email. Communications may include (but are not limited to): the property's Waste Reduction and Diversion Policy, newsletters promoting recycling, etc. Frequency of communications should be quarterly at a minimum.	
	Additional Information: Bins can be emptied in two ways: either the occupant is responsible for emptying deskside bins into central bins or the custodial staff empties the deskside bins. In case of the latter, the custodial staff must be equipped with appropriate bags to ensure source-separated materials remain separated upon collection.	
	For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.	
Scoring	Yes	12/12
	N/A 0/0	



08.05.02	Are c	ther measures in place in the building to improve waste diversion?
Explanation & Description: Innovate Requirements: Dem Additional Information Some examples include a disposal; • Unique was include an offiltration state food court. • Specification participate of Documente		ription: Innovation in waste management requires going beyond standard 3Rs initiatives. irements: Demonstrate that at least one (1) initiative has been put in place. tional Information: e examples include but are not limited to: Specification clauses in waste and recycling hauler contracts requiring weight reporting on the materials removed from the site for reuse, recycling, composting or disposal; Unique waste collection or processes to minimize waste disposal to landfill. Examples include an on-site dehydrator for food waste or water bottle ban with a water filtration station supplied in common area or kitchenettes, or scullery in a cafeteria or food court. Specification clauses in tenant leases outlining the expectations for tenants to fully participate in any and all building waste diversion efforts. Documented expectations for tenants to provide building management with annual
Scoring	 weights for materials diverted from landfill that are tenant managed, exastite shredding and recycling of confidential documents; Waste diversion protocol for the provision of additional containers/bins to capture recyclables during moves and other relocation activities; Use of reusable eat-in food containers/cutlery or compostable take-out containers/cutlery in the building cafeteria. In the case of compostable containers/cutlery demonstrate that there is a composting program (prin municipal) in place that is able to accept these materials specifically. Use of radio-frequency identification (RFID) technology to reliably identification receptacles, providing assurance that they have been collected. For all innovation questions, if you are unable to answer "Yes", select "Not Applications in the case of compostable take-out containers/cutlery or compost	
	N/A	0/0



08.05.03	Has the final disposition/destination been identified of at least three (3) materials removed from the site for reuse, recycling, composting or disposal?		
Explanation & Evaluation	<u>Description:</u> Waste is only reduced from landfill when materials are actually successfully diverted. Transparency from supplier operations can help ensure this is the case.		
	quirements: Provide documentation on the following points:		
	Name of the waste management company with whom there is a contract or agreement to collect source separated materials from the building. The Waste Management service provider must have provincial regulatory approval to process the collected materials from the building site. Provide a copy of the contract/agreement for each company and if applicable, their Environmental Compliance Approval-ECA or Environmental Activity and Sector Registry registration number.		
	 Location where the recyclable materials are being sent. Provide a letter including the name, location and ECA, if applicable, of each receiving facility. Details on where recyclables and waste are going beyond the Materials Recycling Facility – for example, the name, location and ECA, if applicable, of any other processing/remanufacturing facilities. Reject and recycling percentage of recycling facilities. Documentation on points listed here must be available for each waste management company retained to remove source separated material from the building site. 		
	For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.		
Scoring	9/9		
	A 0/0		



9.0 SITE



9.1 DEMONSTRATION OF INTENT

09.01.01	Is a landscape management program in place for the building that includes the following considerations?
Explanation & Evaluation	<u>Description:</u> How a building manages its landscaped areas through mowing and fertilization practices can have an impact on the surrounding environment (e.g., the persistence of invasive species; the release of harmful chemicals and toxins into the environment such as pesticides, fertilizers and herbicides; and on resource use like water).
	Requirements: The management of turf and garden areas must follow a plan that understands and works with the agronomic needs of the plants. Other key components of the program include proper use of irrigation, using site appropriate landscape plants and the use of herbicides and pesticides only when appropriate based on growth cycles of the pests or weeds. This program must be communicated to and followed by all relevant building staff and contractors/service providers.
	Demonstration of implementation is required. The program can be common to a portfolio or campus of buildings however implementation must be building-specific.
	Additional Information: Select Not Applicable if 5% or less of the property is permeable. Provide evidence of the lack of landscaping (e.g., site map).

09.01.02	Use of native species.	
Explanation &	Desci	ription: Maximize the use of native and drought resistant plant species.
Evaluation	Requirements: Demonstrate that native species are selected above other plant species for use in landscaping.	
	Additional Information: Using native and drought resistant plant species for landscaping is beneficial because they support the needs of local wildlife populations (some wildlife populations are entirely dependent upon specific native plants to survive, such as many species of butterfly). Native species may require less care than non-native plant species as they are better adapted to local environmental conditions, and they act as a source of seeds to keep local natural areas populated with native plants. Obtain Planting Plan/Landscape Plan from Architect highlighting plant types and locations on building site or refer to local conservation authority for plan directory and characteristics.	
Scoring	Yes	2/2
	No	0/2
	N/A	0/0



09.01.03	Protect and/or restore habitat.			
Explanation & Evaluation	<u>Description:</u> Landscaping – even in urban areas – can help to protect or restore important habitat for local wildlife species. Buildings have an opportunity to provide connectivity between larger natural landscapes or contribute to habitat patches that can aid in habitat migrations and provide important refuges for wildlife.			
	'	equirements: Demonstrate that efforts are being made to protect or restore habitat for pecific species.		
	bees) Plan/	ditional Information: Selecting plants that are specifically attractive for pollinators (such as es) can help ensure species proliferation and ecosystem health. Obtain Planting an/Landscape Plan from Architect highlighting plant types and locations on building site or fer to local conservation authority for plan directory and characteristics.		
Scoring	Yes	2/2		
	No	0/2		
	N/A	0/0		

09.01.04	Conti	Control or removal of invasive/non-native species.		
Explanation & Evaluation	been Invas for sp	<u>Description:</u> Invasive species are all non-indigenous or non-native flora and fauna that have been deliberately or accidentally introduced to an area where they are not naturally found. Invasive species have an adverse effect on the habitats they invade. These species compete for space, nutrients and water, ultimately outcompeting local or native species, and reducing biodiversity.		
		<u>Requirements:</u> Demonstrate that strategies are in place to control or remove invasive and non-native species.		
	of inv	dditional Information: Building managers can do their part to control or manage the spread invasive species by only using indigenous species in landscaping, and removing any non-utive species that enter landscaped areas.		
Scoring	Yes	2/2		
	No	0/2		
	N/A	0/0		



09.01.05	Use of non-chemical control measures followed by environmentally preferable pesticides, fertilizers, and herbicides		
Explanation & Evaluation	Broad-spectrum application of pesticides, fertilizers, and herbicides has significant impacts on the health of the landscape and the runoff of harmful chemicals into the environment. Building managers can reduce non-point source pollution by focusing on using non-chemical control methods. When chemical options are used, these should be low in toxicity and persistence. Their use should be part of an overall landscape management plan. Requirements: To be considered eligible, demonstrate the following elements: 1. Inventory of all pests present on-site; AND		
	 2. List of all non-chemical control measures used to control targeted organisms. Before any chemicals are applied, demonstrate that non-chemical control measures are utilized. These include (but are not limited to): Planting naturally pest-resistant species (refer to local conservation authority for plant directory); 		
	 Pruning infested areas of plants; Hand cultivation of weeds before they go to seed (avoiding disturbing soil more than necessary, which can bring more weeds to the surface); Leaving grass clippings in place to reduce fertilizer (especially nitrogen); Aerating in spring and fall to physically break up thatch, unhealthy quantities of which can harbor insects and diseases; 		
	 Composting to add macro- and micro-nutrients to the soil (reducing the need for fertilizer) and increase microbial activity that will decompose thatch; Over-seeding to create a dense turf to crowd out weeds; 		
	 Mowing at a cutting height of 7.5 cm to shade sun-loving weeds and encourage grass root development (low mowing encourages weed invasion); 		
	 Mulching using compost created via an in-house system (e.g., tumbler or composter). AND 		
	3. Inventory of all acceptable chemical pesticides, herbicides, and fertilizers used to		
	 control targeted organisms (if still warranted). Pesticides or herbicides: Product label must meet the three following requirements 1) includes no signal words worse than "caution" (such as "danger" or "warning"), 2) contains no warning or mention about toxicity to ecosystems (e.g., soil, water) or wildlife (birds, aquatic life, bees, wildlife), and 3) is not specified as being for "Restricted Use". Fertilizers: Products must be included in the Organic Materials Review Institute (OMRI) Canada Products List[©]. 		
	Where landscaping services are contracted, the contracted company must provide the building manager with documentation showing that they meet the same requirements outlined here.		
	Additional Information:		
	Organic Materials Review Institute Canada: https://www.omri.org/canada-list		
Scoring	Yes 2/2		
	No 0/2		
	N/A 0/0		



09.01.06	Is there a hardscape management program in place for the building that includes the following considerations?
Explanation & Evaluation	<u>Description:</u> Building managers must have a clear plan in place to address the regular cleaning and maintenance of the building's facade and hardscape areas. Proper hardscape management can have a tremendous impact on the surrounding environment (e.g., release of chemicals and toxins into the environment), safety (e.g., slips due to ice build-up), and the building's overall aesthetic/street appeal.
	Requirements: Create a Hardscape Management Program. The program must be reviewed every 12 months and be available to all relevant building staff, contractors or service providers.
	Demonstration of implementation is required. The program can be common to a portfolio or campus of buildings however implementation must be building-specific.
	Additional Information: Select Not Applicable if there is no hardscape for which the property owner is responsible. Provide evidence of the lack of hardscape (e.g., site map).

09.01.07	Regular cleaning of hardscape areas such as sidewalks, pavement, parking garages, parking lots.	
Explanation & Evaluation	Requirements: Demonstrate that regular cleaning of the building's hardscape is occurring. Provide rationale for how cleaning frequency was determined.	
Scoring	Yes	2/2
	No	0/2
	N/A	0/0

09.01.08	Regular cleaning of the building's exterior facade.	
Explanation & Evaluation	Requirements: Demonstrate that regular cleaning of the building's exterior facade is occurring. Provide rationale for how cleaning frequency was determined.	
Scoring	Yes	2/2
	No	0/2

09.01.09	Use of environmentally preferable cleaning chemicals.		
Explanation & Evaluation	clean	Requirements: Where possible, the use of cleaning chemicals should be minimized. When cleaning chemicals are required, these must have obtained a third-party certification from EcoLogo or Green Seal.	
Scoring	Yes	2/2	
	No	0/2	
	N/A	0/0	



09.01.10	Use of environmentally preferable maintenance equipment.		
Explanation & Evaluation	Requirements: Specify the use of manual cleaning strategies wherever possible. If equipment is necessary, these must be energy and water efficient. If powered equipment is necessary, it must operate with a sound level of less than 70dBA and be compliant with ENERGY STAR (where possible). Propane-powered equipment must have high-efficiency, low emission engines. Battery-powered equipment must be equipped with environmentally-preferable gel batteries. Powered equipment must be ergonomically designed to minimize vibration, noise and user fatigue. Equipment dependent on water must use water efficiently or use non-potable water where possible. Carefully monitor the landscape to avoid excessive water runoff.		
	Additional Information: ENERGY STAR qualified products include: sweepers, mowers, outdoor vacuums and other equipment used to clean and maintain hardscapes, landscaping, or the building exterior.		
Scoring	Yes	2/2	
	No	0/2	
	N/A	0/0	

09.01.11	Use of environmentally preferred snow and ice melting products.			
Explanation & Evaluation		<u>Description:</u> Selecting environmentally preferable de-icing products reduces the adverse impacts on neighbouring soils, vegetation and waterways of such applications.		
	Requirements: Specify the use of environmentally preferable de-icing agents for hardscape (parking, walkways, etc.). De-icing agents must have a working temperature of -7°C or below and contain no added chloride (such as magnesium chloride or calcium chloride). Organic products (e.g., beet juice, Organic Melt or equivalent) are recommended. Materials may be brines or solid de-icers that are pre-treated or pre-wetted.			
	Additional Information: Select Not Applicable if 1) Snow and ice removal is not applicable due to climate conditions (and provide evidence of the climate in which the building is located to demonstrate that there would be no snow and ice requiring removal, e.g., regional weather maps/reports); OR 2) If the property owner is not responsible for any hardscape. Provide evidence of the lack of hardscape (e.g., site map).			
Scoring	Yes	2/2		
	No	0/2		
	N/A	0/0		



09.01.12	Are de-icing agents appropriately applied?		
Explanation & Evaluation	<u>Description:</u> To increase accessibility and also reduce the risk of slips, falls and other icerelated accidents, the application of salt in excess of what is needed drives up the price of winter maintenance contracts, accelerates corrosion of building infrastructure and adversely impacts neighbouring soils, vegetation and waterways.		
	Requirements: The de-icing agent must be applied by staff or contractors trained to oper calibrated closed-loop ground speed controllers that automatically adjust salt application based on ground speed and spreader discharge. Using properly calibrated salt spreading equipment can help ensure that when salt is applied that it is done in appropriate quantit while still providing a safe surface for building visitors, tenants and staff. Target average application rates of 4.8 Kg/100m², taking into account the auger drop rate, spinner spread span, and the speed of the truck.		
	Demonstrate effective calibration by providing records showing that calibration is performe based on auger drop rate, spinner spread span, and the speed of the truck. Calibration must be reviewed annually when the equipment is being readied for a new season. Evidence of properly calibrated equipment can be provided by performing a drop test.		
	If de-icing agents must be applied manually, because the area is small and ground speed controllers cannot be used, measurement markings must be applied to the de-icing contain to ensure that overuse is not occurring.		
	Additional Information: Ground speed controllers can be adjusted to increase or decreat amount of salt being discharged to suit weather conditions and level of service demands any given site. Select Not Applicable if 1) Snow and ice removal is not applicable due to climate condition (and provide evidence of the climate in which the building is located to demonstrate that there would be no snow and ice that would require to be removed—e.g., regional weath maps/reports); OR 2) If the property owner is not responsible for any hardscape. Provide evidence of the lack of hardscape (e.g., site map).		
	Salt Application Verified Equipment Program < www.savesalt.ca >		
	Snow and Ice Management Association < http://www.sima.org/ >		
	Smar	t about Salt < <u>http://www.smartaboutsalt.com/</u> >	
Scoring	Yes	2/2	
	No	0/2	
	N/A	0/0	



09.01.13	Has a resilience or business continuity plan been prepared for the building that includes the following components?
Explanation & Evaluation	<u>Description:</u> A <i>Business Continuity Plan</i> or <i>Resilience Plan</i> is a plan that outlines how a building or campus will continue to run despite adverse events. A good continuity plan will address both short-term risks (e.g., floods, fires), and long-term changes that could impact the operating environment (e.g., long-term temperature and precipitation changes brought on by climate change).
	Requirements: Develop a Resilience or Business Continuity Plan for the building.
	Although demonstration of implementation is preferable, it is not necessary. The plan can be common to a portfolio or campus of buildings however some building-specific information is required.
	Additional Information: Buildings/campuses/organizations with robust resilience or business continuity plans are far more prepared to deal with emergency situation and are therefore more likely to continue operating successfully over the short- and long-terms.
	More information on business continuity planning is available from Public Safety Canada: A Guide to Business Continuity Planning http://www.publicsafety.gc.ca/cnt/rsrcs/pblctns/bsnss-cntnt-plnnng/index-eng.aspx

09.01.14	A lon	A long-term climate change risk assessment.	
Explanation & Evaluation	<u>Description:</u> Climate change is anticipated to have lasting impacts on all aspects of the natural and built environments. It is important for building management to be aware of potential impacts of climate change on the building or campus.		
Business Continuity Plan. List all potential long-term risks to the building		irements: Include a long-term climate change risk assessment into the Resilience or less Continuity Plan. List all potential long-term risks to the building in the face of te change as well as management's assessment of how they might apply to the ing/campus/organization as a whole.	
	Additional Information: Long-term climate change impacts include: changes in long-term weather patterns (e.g., precipitation and temperature); changes in the frequency of extreme weather events and natural hazards; rising sea levels; and increased desertification. All of these anticipated impacts can alter a building's ability to function and perform as it was originally designed to do. Failure of assets to perform in altered conditions can cause serious consequences for the tenants and communities that rely on them and can negatively impact the building owner and manager.		
Scoring	Yes	5/5	
	No	0/5	



09.01.15	An a	daptation plan based on assessed long-term climate risks.
Explanation & Evaluation	Description: Once a long-term climate impact assessment has been completed and the long-term potential risks have been identified for the building or campus, it is imported develop plans to adapt to these expected future risks, this will build adaptive capacity.	
	Requirements: Incorporate an adaptation plan to long-term risks into the Resilience or Business Continuity Plan. Identify adaptation measures that will be taken, and design features implemented to address potential consequences of long term climate change (i.e extreme weather events, water scarcity, increase in ambient temperature, etc.)	
	Additional Information: Adaptive capacity should be incorporated into the building envelope, building systems and services so that they can cope in an altered future brought on by climate change. Adaptive capacity means the system has the ability respond to changing conditions over time to better withstand them. Flexibility is a of adaptive capacity. Redundancy (from backup systems or decentralized distribute networks) helps systems maintain functionality even if one component fails.	
building (e.g., enhance the durability of the building, imp envelope), systems change (e.g., mixed mode ventilation the range of conditions in which the building can function		tation strategies may include any or all of the following: structural changes to the ing (e.g., enhance the durability of the building, improve the insulation of the lope), systems change (e.g., mixed mode ventilation, advanced BAS systems to expand ange of conditions in which the building can function properly), implementation of onmentally preferable systems such as green or cool roofs, or decentralizing vital ms.
	Adaptation planning is not the same as emergency preparedness which focuses short-term risks rather than long-term changes, though the two can be developed tandem as there is likely to be overlap.	
Scoring	Yes	5/5
	No	0/5

09.01.16	A shor	A short-term hazard assessment.	
Explanation & Evaluation	Description: In addition to looking at long-term climate change risks, buildings are also subject to a range of potential short-term risks that may include any or all of the following: wildfires, floods, tornadoes, hurricanes, earthquakes, tsunamis and man-made hazards (e.g., pandemics). Requirements: Incorporate short term hazard assessment in the Resilience or Business Continuity Plan. The short-term hazard assessment must include a thorough list of all likely natural and human induced hazards in the building area and their direct and indirect impacts.		
man-made hazards are potential threats in the area and should conduct research the potential frequency and severity of each. Direct effects include: flooding, wildf		onal Information: Building management should consider which types of natural and nade hazards are potential threats in the area and should conduct research to ascertain tential frequency and severity of each. Direct effects include: flooding, wildfires, high peeds and lightning. Indirect effects include: loss of power supply caused by the disaster uptions in availability of key resources of these disasters.	
Scoring	Yes	5/5	
	No	0/5	



09.01.17	Plans	Plans to safeguard against potential short-term hazards.	
Explanation & Evaluation	<u>Description:</u> Once a short-term hazards assessment has been undertaken for the building or campus, it is important for management to develop plans to safeguard against these potential hazards.		
	Requirements: Incorporate adaptation plans to protect against short-term hazards in the Resilience or Business Continuity Plan. Identify adaptation measures that will be taken, and design features implemented to address potential consequences of short-term hazards.		
	Additional Information: Plans should include emergency response, disaster recovery, crisis management and communication, training, testing, maintenance, awareness.		
Scoring	Yes	5/5	
	No	0/5	

09.01.18		Has the Resilience Plan been reviewed, signed, and dated by senior management within the last three (3) years?	
Explanation & Evaluation	qualit effect	<u>Description:</u> Regular review of the building or campus' resilience plan is an important quality assurance technique. A review of the plan should assess the plan's accuracy and effectiveness, as well as its ongoing relevance. Even if the plan doesn't change, a regular review should be undertaken.	
	Requirements: Review and update the plan and its components at a minimum every three (3) years. It should also be reviewed after any substantial changes to the building or management takes place, when new threats or risks to the building emerge, or after a training exercise occurs to incorporate findings/lessons learned.		
	The resilience plan must be signed and dated to signal that the current one is in place.		
	Additional Information: Senior management is someone with decision-making abilities on the topics raised in the plan. Select Not Applicable if there is no resilience plan in place at the building.		
Scoring	Yes	3/3	
	No	0/3	
	N/A	0/0	



09.01.19	Is a Tenant Wastewater Discharge Policy in place?			
Explanation & Evaluation		<u>Description:</u> Many jurisdictions regulate the discharge of wastewater containing environmental contaminants.		
		rements: Property owners must address responsible wastewater disposal with ss. The following components must be included:		
	•	Identification of processes that generate wastewater. Existing regulatory framework (what regulations, by-laws, guidelines apply). Identification of acceptable disposal procedures. Training on appropriate disposal procedures.		
		olicy must specifically address the disposal of waste products such as, process water, (if present), liquid chemical products, or other contaminated liquids.		
	warrar	onal Information: Select Not Applicable if there are no wastewater products that nt such a policy. Demonstrate that this is the case through a tenant inventory of water contaminants.		
Scoring	Yes	3/3		
	No	0/3		
	N/A	0/0		



9.2 ASSESSMENT

09.02.01		Has a property condition assessment (PCA) report been completed for this building within the past five (5) years?		
Explanation & Evaluation	comp	<u>Description:</u> A PCA Report incorporates the expected life of the building and all of its components and systems under specific conditions. This includes the envelope, roofing, windows, interior and exterior mechanical systems and other major building equipment.		
	Requirements: Conduct a Property Condition Assessment for all building systems. The report must contain a list of Tactical and Strategic items. This report must be completed by a qualified third-party who has had training in building assessment and is able to do the work relative to ASTM E2018-08 and CSA Z320 standards.			
	A Property Condition Assessment update is valid if performed within the last 12 months or a major system changes have occurred. The update must include an inspection of all building systems identified in the initial assessment and provide an update on their condition.			
	Additional Information: This report is used to gather a better understanding of how the building is operating in its present state and how funds need to be saved and/or allocated to repair or replace various items. Tactical items are those that will require attention within the first five (5) years of the report's completion, whereas Strategic items are those that are looked at after five (5) years and are typically reviewed in the ten (10) year capital asset management plan. Select Not Applicable if the building was constructed within the past five (5) years.			
Scoring	Yes	10/10		
	No	0/10		
	N/A	0/0		

09.02.02	Has a	Has an environmental site assessment been completed for the property?		
Explanation & Evaluation	<u>Description:</u> Where hazardous conditions exist, controls must be in place to prevent and control migration of contaminants into the building or surrounding environment.			
	Requirements: Identify the presence of contaminants sub-grade to the building through the completion of a Phase I or Phase II environmental site assessment in accordance with CSA Standards Z768 and Z769 or ASTM Standards 1527 or 1903. The environmental site assessment must have been completed at the most recent of the following moments: since the time of acquiring ownership of the property; or if the use of the property has changed (i.e., change from industrial use to residential); or if the building footprint has increased or decreased (i.e. building construction or demolition) for which municipal approval and permitting is required.			
Scoring	Yes	10/10		
	No	0/10		



9.3 OPERATIONS & MAINTENANCE

09.03.01		Have steps been taken to address the issues identified in the Property Condition Assessment Report?	
Explanation & Evaluation	Prope Plan, timel	Requirements: Demonstrate that action has been taken regarding items identified in the Property Condition Assessment (PCA) Report or that issues have been integrated into the Capital Plan, to be addressed in the future. The Capital Plan must include a dedicated budget line and timeline for completion for a given PCA item. Additional Information: Select Not Applicable if no issues were reported in the PCA or if no PCA was performed.	
Scoring	Yes	6/6	
	No	0/6	
	N/A	0/0	

09.03.02		ontrols in place to address migration of known soil/groundwater contaminants into uilding?		
Explanation & Evaluation		<u>Description:</u> Where hazardous conditions exist, controls must be in place to prevent and control migration of contaminants into the building.		
	Requirements: Demonstrate that control measures are in place and monitored to mitigate the migration of contaminants into the building. Control measures include the use of build pressures, or sub-slab pressure control (to control hydrocarbon vapour migration).			
		cional Information: Select Not Applicable if there are no known soil/groundwater aminants based on the Phase I or II environmental site assessment.		
Scoring	Yes	8/8		
	No	0/8		
	N/A	0/0		

09.03.03	Are high albedo surfaces cleaned regularly to maintain effective solar reflectance?		
Explanation & Evaluation	<u>Description:</u> High albedo surfaces (i.e., white) have a higher solar reflectance index (SRI) than dark surfaces. They must be cleaned regularly in order to maintain reflectance.		
	years	Requirements: Demonstrate that these surfaces are cleaned at a minimum every two (2) years. Additional Information: Select Not Applicable if there are no high albedo surfaces.	
Scoring	Yes	5/5	
	No	0/5	
	N/A	0/0	



9.4 BUILDING SYSTEMS

There are no questions in this section.



9.5 INNOVATION

09.05.01	Does	the facility site include features to minimize and manage stormwater runoff?	
Explanation & Evaluation	<u>Description:</u> Impervious surfaces, such as parking lots, roofs and sidewalks can lead to increased surface runoff. Too much runoff can lead to erosion, flooding, and increased pollutants and sediments reaching municipal storm sewer systems and nearby waterbodies. Therefore, measures should be implemented to minimize stormwater runoff.		
	meas runot	<u>lirements:</u> Demonstrate that sufficient stormwater management/minimization sures are in place at the building to reduce the percentage of stormwater that becomes ff. During peak storm flow, the typical percentage of stormwater runoff varies by ion of site:	
	 Downtown/urban areas: 70-95% of stormwater becomes runoff Suburban areas: 25-40% of stormwater becomes runoff Light industrial areas: 50-60% of stormwater becomes runoff Heavy industrial areas: 60-90% of stormwater becomes runoff Demonstrate that the runoff is at least 10% less than the lowest threshold using the threshold (above) that is closest to the type of site relevant to the building (e.g., downtown/urban vs. suburban area, etc.) 		
effectively manage stormwater to reduce runoff, including: stormwater or rete gardens/rain gardens, green roofs, use of porous pavement/pavers, and captu stormwater in cisterns for later re-use. Rain gardens are landscape features de consist of sunken garden spaces where runoff can pond and infiltrate into deel		tional Information: There are a number of measures that can be put in place to tively manage stormwater to reduce runoff, including: stormwater or retention ponds, ens/rain gardens, green roofs, use of porous pavement/pavers, and capturing nwater in cisterns for later re-use. Rain gardens are landscape features designed that st of sunken garden spaces where runoff can pond and infiltrate into deep constructed and then into the native soils below to divert stormwater runoff from hard surface areas	
	In downtown core areas, planting trees and vegetation can decrease runoff by detaining absorbing rainfall. Other strategies include: reducing the size of each parking space, minimizing parking lot areas, using pervious pavement to reduce runoff and planting urb rain gardens.		
	For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.		
Scoring	Yes	6/6	
	N/A	0/0	



10.0 STAKEHOLDER ENGAGEMENT



10.1 DEMONSTRATION OF INTENT

10.01.01	Has t	Has the Environmental Policy been clearly communicated to building occupants?	
Explanation & Evaluation	<u>Description:</u> Increasing awareness of environmental goals can help management and tenants work together to achieve more sustainable outcomes for the building. This ensures stakeholders are on the same page with respect to sustainability at the facility.		
	Requirements: Communicate the overarching Environmental Policy (BEST Practice) to occupants. It must be available for review on an on-going basis.		
	Additional Information: Occupants are the permanent/regular occupants of the building, such as tenants and staff. If the building is owner-occupied, surveys should be directed to staff. Visitors to the building are not considered occupants. If the building is owner-occupied, surveys should be directed to staff. Communication examples include: adding the Environmental Policy to new employee "welcome packages", new tenant packages and newsletters; making it available on the company website or on an intranet site accessible by tenants and building staff; and introducing it at "green team" meetings or other in-person forums.		
Scoring	Yes	3/3	
	No	0/3	

10.01.02		Are members of the building management team specifically responsible for implementing environmental initiatives?	
Explanation & Evaluation	<u>Description:</u> Leadership in environment begins at the top. It is important to specify who is ultimately accountable for setting environmental (or sustainability) goals or targets for the building and who is ultimately responsible for achieving them.		
	Requirements: Management must clarify roles and responsibilities of those leading the environmental initiative. Authority must be given to these individuals so that they may implement environmental initiatives to improve building performance.		
	Additional Information: Provide outline of the building management team structure describing roles and responsibilities of environmental group/leaders along with their roles and responsibilities.		
	Individuals may be responsible for initiatives applicable to an entire portfolio/campus or for an individual building.		
Scoring	Yes	12/12	
	No	0/12	



10.01.03		Is the building's environmental performance tied to one or more key performance indicators (KPIs) for building staff?	
Explanation & Evaluation	deen KPIs t	<u>Description:</u> Key Performance Indicators (KPIs) are metrics used to evaluate factors that are deemed critical to the success of an organization. In terms of building operations, developing KPIs that include environmental or sustainability metrics is important to ensuring success in this area.	
	Requirements: KPIs must be – at a minimum – tied to the performance of senior management personnel, though KPIs should ideally also be in place for building staff at all levels. A minimum of two (2) KPIs (or 1 if this is the maximum permitted) must be in place and tied directly to the performance of senior level staff in the building. KPIs must be related to at least two (2) of the following: energy efficiency, water efficiency, and waste diversion. Additional Information: KPIs can be related to any number of environmental or sustainability goals, including energy efficiency, water efficiency, waste diversion, and tenant satisfaction rates.		
Scoring	Yes	8/8	
	No	0/8	



10.01.04	Are tenants required to comply v	with specific environmental criteria?	
Explanation & Evaluation	going to be met. Providing tenant improve transparency around key greater cooperation between ten goals. Criteria can be provided in a gree methods. Requirements: Demonstrate that	ole to play if the environmental objectives for a building are as with specific sustainability or environmental criteria will of environmental issues pertinent to the building and foster ants and building staff regarding achieving environmental on lease, a green design criteria handbook, or through other attenants have been required to meet at least one (1)	
	 Requirements: Demonstrate that tenants have been required to meet at least one (1) provision per criteria: Energy efficiency. Provisions include (but are not limited to): tenants commit to installing only energy-efficient equipment or agree to leave pre-installed ENERGY STAR rated equipment; tenants commit to sending the landlord utility information if separately metered at least annually; tenants commit to managing plug loads; etc. Water efficiency. Provisions include (but are not limited to): tenants commit to installing only water-efficient equipment or agree to leave pre-installed water-efficient equipment; tenants commit to sending the landlord water usage data if separately metered at least once annually; tenants commit to minimizing the use of water by turning off taps and other water-using equipment when not in use, etc. Environmental fit-up plan. Provisions include (but are not limited to): tenants commit to selecting furniture, paints, equipment and other products for tenant fit-ups that are certified by credible third-party certifiers such as CSA, EcoLogo, UL, GreenSeal, FSC, and SFI; tenants commit to reducing the amount of waste generated through renovation and construction; etc. Waste reduction and recycling. Provisions include (but are not limited to): tenants commit to educating employees about correctly using recycling facilities at the building; tenants commit to selecting office supply vendors with recycling or take-back programs, or programs that reduce the use of packaging materials for shipments; tenants commit to tracking and monitoring waste reduction efforts and submitting information to the landlord at least once annually; tenants commit to recycling batteries and e-waste, etc. Provide evidence that tenants are complying with these criteria. 		
	Additional Information: Select all that apply.		
Scoring	Energy efficiency	1/3	
	Water efficiency	1/3	
	Environmental fit-up plan	1/3	
	Waste reduction and recycling	1/3	
	None	0/3	
	The building has no tenants	3/3	



10.2 ASSESSMENT

10.02.01	Does building management regularly conduct an occupant satisfaction survey that includes the following components?
Explanation & Evaluation	<u>Description:</u> Conducting regular occupant satisfaction surveys can help management better understand the issues/priorities that matter most to occupants. Surveys can also help improve management-tenant relationships, and inform management priorities.
	Requirements: Conduct an occupant satisfaction survey. The survey must be provided to at least 50% of building occupants.
	Assess occupant satisfaction survey every two (2) years, at a minimum.
	Additional Information: Although there is no minimum rate of response required, a rate of 30% is encouraged for results to be considered informative.
	Occupants are the permanent/regular occupants of the building, such as tenants and staff. If the building is owner-occupied, surveys should be directed to staff. Visitors to the building are not considered occupants.

10.02.02	Quali	Quality and effectiveness of building management and services	
Explanation & Evaluation	<u>Description:</u> Feedback can help management understand what it is doing well from the perspective of occupants and identify areas for improvement.		
	<u>Requirements:</u> Include a question (or set of questions) pertaining to the quality and effectiveness of building management and services.		
		<u>Additional Information:</u> Samples of topics include (but are not limited to): building management responsiveness, custodial staff, repairs and fit-ups.	
Scoring	Yes	4/4	
	No	0/4	

10.02.03	Air q	Air quality	
Explanation & Evaluation	<u>Description:</u> Air quality can be a major contributor to occupant satisfaction (or dissatisfaction). <u>Requirements:</u> Include a question (or set of questions) pertaining to the air quality of the building so that management can understand what it might do to improve this aspect of the occupant experience (if the results of the survey indicated deficiencies in this area).		
	Additional Information: A sample question may be: "Do you notice any unpleasant odors in the building?"		
Scoring	Yes	3/3	
	No	0/3	



10.02.04	Thermal comfort		
Explanation & Evaluation	<u>Description:</u> Monitoring, managing, and maintaining thermal comfort conditions in a building allows for optimal performance while also improving user comfort and overall satisfaction.		
	Requirements: Include a question (or set of questions) pertaining to the thermal comfort of the building so that management can understand what it might do to improve this aspect of the occupant experience (if the results of the survey indicated deficiencies in this area).		
	Additional Information: Samples of topics include (but are not limited to): indoor temperature, air speed, humidity, etc.		
Scoring	Yes	3/3	
	No	0/3	

10.02.05	Frequency and timeliness of communication and response times	
Explanation & Evaluation	<u>Description:</u> The frequency of communications and response times from building management can be a major contributor to occupant satisfaction (or dissatisfaction). <u>Requirements:</u> Include a question (or set of questions) pertaining to the frequency and timeliness of communication and response times from building management.	
Scoring	Yes	4/4
	No	0/4

10.02.06	Envir	Environmental/sustainability priorities	
Explanation & Evaluation	<u>Description:</u> Understanding occupant priorities regarding environmental/sustainability objectives will help building management focus its communications, initiatives, and efforts to align with occupant priorities. It is also a good way for building management to assess any gaps in tenant awareness or understanding of pertinent environmental/sustainability issues. <u>Requirements:</u> Include a question (or set of questions) pertaining to occupant		
	environmental/sustainability priorities.		
Scoring	Yes	4/4	
	No	0/4	



10.02.07	Is a transportation survey conducted in the building?					
Explanation & Evaluation	<u>Description:</u> Understanding how occupants and visitors move to and from the building each day provides management with information useful for identifying more sustainable modes of transportation that could be encouraged or implemented at the building. This information can be used to measure changes to the data over time and could be a useful indicator of whether programs are successfully encouraging more sustainable modes of transportation to and from the building.					
	Requirements: Provide occupants and visitors with a question (or set of questions) about their chosen mode of transportation to and from the building. The transportation survey must be conducted every five (5) years.					
	Additional Information: Consider gathering more detail on fuel use patterns such as: days commuted using selected mode, distance commuted and number of passengers (for cars/carpools). Such information can help identify whether more carpool priority parking spots are needed or if more bicycle parking is required, among other things. Occupants are the permanent/regular occupants of the building, such as tenants and staff. Visitors are temporary visitors to the building. If the building is owner-occupied, surveys should be directed to staff. If there are no visitors, mark Not Applicable.					
Scoring	Yes No N/A					
	Facility tenants/building staff	7/14	0/14	0/0		
	Visitors 7/14 0/14 0/					



10.3 OPERATIONS & MAINTENANCE

10.03.01	Does building management act on responses obtained from occupant satisfaction surveys?				
Explanation & Evaluation	<u>Description:</u> An occupant satisfaction survey can provide building management with important information to improve management-occupant relations, improve the occupant experience, and prioritize action plans to improve the sustainable/environmental performance of the facility. However, a survey only provides information. Unless building management acts upon the information, its value is diminished.				
	Requirements: Establish mechanisms to satisfaction surveys:	act on responses	received from occ	upant	
	 Aggregate results from surveys must be reported within 60 days to building management. 				
	 Describe steps taken to address occupant survey feedback in each area. 				
	<u>Additional Information:</u> Select all that apply. Select Not Applicable if a particular topic not included in the survey.				
Scoring		Yes	No	N/A	
	Quality and effectiveness of building management and service	1/6	0/6	0/0	
	Air quality	1/6	0/6	0/0	
	Thermal comfort:	1/6	0/6	0/0	
	Frequency and timeliness of communication and response times	1/6	0/6	0/0	
	Environmental/sustainability priorities	1/6	0/6	0/0	
	Transportation survey	1/6	0/6	0/0	



10.03.02	Are o	Are opportunities created and promoted for occupants to contribute to the community?		
Explanation & Evaluation				
	receiving organization/community group thanking building tenants and staff for their volunteering or financial contributions.			
Scoring	Yes	5/5		
	No	0/5		



10.4 BUILDING SYSTEMS

10.04.01	Are the following measures in place at the building to promote sustainable modes of travel?
Explanation & Evaluation	<u>Description:</u> Encouraging use of more sustainable modes of transportation reduces the carbon footprint associated with occupants of the building and promotes health and wellness. Providing occupants with a narrative explaining why certain modes of transportation are more sustainable than others will increase occupant awareness of this issue.
	Requirements: Demonstrate that you have been encouraging the use of more sustainable modes of transportation to and from the property within the past 12 months (e.g., supply sample communications to tenants). While not all modes of sustainable transportation may be reasonable for all buildings to promote, ascertain which options are relevant and take all reasonable steps to promote its/their use.
	Additional Information: Sustainable modes of transportation include active modes (e.g., walking, cycling, rollerblading, and running); carpooling and use of car-share programs; use of public-transportation; and the use of hybrid/electric or other more efficient vehicles.
	Occupants are the permanent/regular occupants of the building, such as tenants and staff. Visitors are temporary visitors to the building. If the building is owner-occupied, surveys should be directed to staff.

10.04.02	Prom	Promoting the use of public transportation		
Explanation & Evaluation	emiss	ription: Building management has an opportunity to help reduce greenhouse gas sions and traffic congestion associated with the use of single occupant vehicles by uraging the use of public transportation facilities to and from the property.		
	Requ	<u>irements:</u> Encourage the use of public transportation facilities to and from the property.		
	includ facilit such	dditional Information: There are many ways to promote the use of public transportation, cluding but not limited to: providing clear signage directing users to public transportation cilities; communicating the benefits of public transportation through different channels ich as newsletters, online forums, e-blasts and/or posters; creating challenges to motivate wilding staff and tenants to use public transportation, etc.		
		ect Not Applicable If there are no public transportation options nearby (if there are no rail cions within 800m or if there are no bus stops within 400m).		
Scoring	Yes	5/5		
	No	0/5		
	N/A	0/0		



10.04.03	Encouraging carpooling and/or car sharing programs			
Explanation & Evaluation	there	<u>Description:</u> Carpooling/car sharing programs reduce the number of vehicles on the road and therefore minimize traffic congestion and air pollutants. Carpooling also saves money spent on fuel and allows co-workers/commuters to socialize.		
	Requirements: Reduce the use of single occupancy cars by providing designated preferred parking spaces for occupants who carpool (must represent at least 2% of parking spaces); or providing dedicated spaces for park-and-ride initiatives (e.g., shuttles to special events); or offering ride sharing programs to occupants (e.g., AutoShare, ZipCar and ride-matching programs).			
	Additional Information: In the case of dedicated parking spaces, these shall be reserved for occupants and be located in direct proximity to the building's entranceways. Occupants are the permanent or regular occupants of the building, such as tenants, staff and visitors (as applicable). Select Not Applicable if there is no parking at the building or if the parking facility is owned			
Scoring	Yes	and managed by a third-party. Yes 5/5		
	No 0/5 N/A 0/0			

10.04.04	Providing a charging station for electric/hybrid vehicles			
Explanation & Evaluation	and e	<u>Description:</u> Electric/hybrid vehicles are considered a better because they are more efficient and emit less carbon dioxide than conventional cars. Management should work to encourage use of these vehicles and make employees/tenants aware of their benefits.		
	Requirements: Provide a minimum of one (1) Level 2 (240-volt or 208-volt plug) or Level 3 (480-volt plug) electric vehicle charging station with clear signage indicating its location and designation.			
		natively, if no electric vehicle charging stations are in place, points can be earned if one of wo paths have been met:		
	 Demonstrate that a program has been implemented to engage occupants on infrastructure costs for installing electric vehicle charging stations. Dem that realistic cost estimates have been calculated, potential providers rese well as specifics surrounding implementation (optimal location, etc.). Demonstrate that other alternative fuel vehicles are being encouraged (e.g provinces where low greenhouse gas -mitting electricity options are not as If there is a separate dedicated parking for tenants and staff, a minimum of one (1) evehicle charging station must be provided in each separate parking area. 			
	Addit	cional Information:		
	Select Not Applicable if there is no parking at the building or if the facility is owned and managed by a third-party.			
Scoring	Yes	5/5		
	No	0/5		
	N/A	0/0		



10.04.05	Providing safe, secure, and covered bicycle parking facilities				
Explanation & Evaluation	<u>Description:</u> Providing safe, secure, and covered bicycle parking facilities at the building encourages cycling to and from the building. Cycling promotes a healthy lifestyle, helps to reduce traffic congestion, and reduces the building's associated environmental footprint.				
	Requirements: To be considered eligible, the follow	ving must be i	n place:		
	 Provide sufficient safe and secure bicycle pand visitors. Use the following formulas to secure individual bicycle parking spaces fo 	calculate the	required number		
	 For tenants and staff: (Tenant and 	d staff headco	unt) x (0.03)		
	 For visitors: (10 individual bicycle parking spaces) + [(1 individual parking space x Leasable Floor Area) / (4500 ft²)] 				
	Provide covered bicycle parking for a minimum of 50% of the bicycle parking.				
	Parking facilities may be grouped but must meet the combined total requirements.				
	Additional Information: Bicycle parking facilities must be secure (to reduce bicycle theft), located in a safe space (to encourage their use and ensure the safety of cyclists) and covered (to protect individuals and their bicycles from inclement weather). Bicycle parking spaces installed by the municipality are not eligible unless building management has/had an active role in promoting their installation.				
	Select Not Applicable in cases where the building is not accessible via regional cycling infrastructure (i.e., bicycle lanes or paths); OR if the findings of a meaningful and relevant transportation survey indicate that on-site bicycle parking facilities are unnecessary; OR if there are no visitors to the building (for visitor bicycle parking only).				
Scoring		Yes	No	N/A	
	Bicycle parking for tenants and staff	2/6	0/6	0/0	
	Bicycle parking for visitors	2/6	0/6	0/0	
	Covered bicycle parking facilities	2/6	0/6	0/0	



10.5 INNOVATION

10.05.01	-	What percentage of the building's gross leasable area is currently certified with BOMA BEST Sustainable Workplaces?	
Explanation & Evaluation	<u>Description:</u> The BOMA BEST Sustainable Workplaces (BBSW) certification, achieved by building tenants/occupants, helps organizations improve their environmental performance by providing a standardized management framework for interior commercial space. It requires tenant/occupant organizations to understand, monitor and improve their performance in the areas of energy, water, waste, e-waste, space construction and renovation, procurement practices, business and employee travel and indoor air quality.		
	Requirements: Provide evidence for the percentage of the building's gross leasable floor area certified with BOMA BEST Sustainable Workplaces. The spaces must be currently certified with BBSW at the time of the BOMA BEST verification, as demonstrated by the BBSW Certificate.		
	Additional Information: BOMA BEST Sustainable Workplaces certification is available to a tenants/occupants within a commercial building. For more information, contact info@bomabest.org		
	on questions, if you are unable to answer "Yes", select "Not Applicable" nts will be lost.		
Scoring 80-100% 24/24		24/24	
	60-79.9%	20/20	
	40-59.9%	16/16	
	20-39.9%	12/12	
	1-19.9%	8/8	
	N/A	0/0	



10.05.02	Is the building's environmental performance documented in a publicly available sustainability report?			
Explanation & Evaluation	<u>Description</u> : Many organizations commit to producing an annual sustainability or corporate social responsibility (CSR) report that discusses sustainable performance (e.g., energy efficiency, water efficiency, carbon footprint, tenant satisfaction rates, employee turnover, community investment, etc.). Reporting is important from a transparency perspective; it provides pertinent information to internal and external stakeholders about the organization, much like an annual (financial) report does.			
	Making such reports publicly available shows strengthened commitment to sustainability/CSR and increases corporate accountability to pursuing continuous improvement.			
	<u>Requirements:</u> Produce a sustainability or CSR report and make it publicly available. The report must have been produced in the last two (2) years.			
	Additional Information: Since reports aren't typically created for individual building acceptable and encouraged to include the building's data in a report that aggregates performance of buildings in a given real estate portfolio. Information can be communicated in a variety of ways, such as through infographics Sustainable performance examples include: energy efficiency, water efficiency, carb footprint, tenant satisfaction rates, employee turnover, community investment, etc.			
	For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.			
Scoring	Yes	8/8		
	N/A	0/0		

10.05.03	Is the	Is the sustainability report verified or validated by an external third party?			
Explanation & Evaluation	<u>Description:</u> Report verification ensures sustainability report compliance with best practices in sustainability/CSR reporting standards.				
		<u>Requirements:</u> Demonstrate that a third-party verifier was engaged to confirm the most recent sustainability or corporate social responsibility report.			
	Additional Information: Some organizations have their reports verified to determine compliance with best practices in sustainability/CSR reporting standards (e.g., the Global Reporting Initiative's reporting framework). Some organizations have portions of their reports verified (e.g., carbon emissions data) to ensure data has been collected and reported in accordance with leading carbon emissions protocols (e.g., The Climate Registry's General Reporting Protocol). Other organizations hire an external consultant to review and provide feedback on the quality and completeness of the report (e.g., Canadian Business for Social Responsibility, or Chartered Professional Accountants associations).				
	For all innovation questions, if you are unable to answer "Yes", select "Not Applicable" instead. No points will be lost.				
Scoring	Yes	6/6			
	N/A	0/0			