BRANPER EXISTING BUILDES Version 3.0 (2025.07)

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1. Introduction

11	Overview

BEAM Plus

Building Environmental Assessment Method (BEAM) Plus is a comprehensive environmental assessment tool for buildings which is carried out on a voluntary basis. It defines the best practice criteria for a range of sustainability issues across the whole life cycle of buildings and projects, such as how buildings shall be designed, constructed and operated, etc. Recognised as one of the world's leading green building assessment tools, it provides a comprehensive set of performance standards that can be pursued by developers and owners.

BEAM Plus Existing Buildings Version 3.0 (EB v3.0), owned and operated by the BEAM Society Limited (BSL), is a rating tool that falls under the BEAM Plus framework. It specifically focuses on the management, operation, maintenance, and environmental performance of existing buildings.

It aims to reduce the environmental impacts of existing buildings whilst improving quality and user satisfaction by the adoption of the best techniques available. It also drives the society to achieve carbon neutrality.

BEAM PlusThe building operational emissions account for about 30% of global energy-
related carbon emissions. Encouraging building owners, particularly in
private sector, to adopt green building management and upgrade their
building services systems can play a significant role in advancing
sustainability and achieving carbon neutrality.

BEAM Plus EB v3.0 aims to increase participation in making existing buildings "Green", promote greater energy saving towards net zero emission, and foster education initiatives to induce behavioural change. This version encourages existing buildings to consider holistic green enhancements for more energy efficient and sustainable operations.

BEAM Plus EB v3.0 is unique in the way with the following features:

- i. Copes with the global climate, physical constraints and ease of longterm facility management;
- ii. Is unique in new features which may set precedent to promote sustainability in worldwide;
- iii. Incorporates new initiatives to improve the energy efficiency and environmental performance;
- iv. Aligns with the global target of achieving net carbon zero by 2050;
- v. Shapes inhabitants' behaviour and lifestyle through demand-side management;
- vi. Encourages enhancement to aged buildings;
- vii. Embraces existing buildings of all ages;
- viii. Contains various levels of practical requirements;
- ix. Provides flexible implementation options to encourage participation.

BEAM is owned and operated by BSL, an independent non-profit public body whose membership is drawn from many professional and interest groups in Hong Kong's building construction and real estate sectors. BSL is committed to developing and implementing the BEAM Plus assessment tools, assessing green buildings and training professionals.

Hong Kong GreenHKGBC was established in 2009 as Hong Kong's industry body that
coordinates efforts towards green building. HKGBC certifies BEAM Plus
projects, accredits BEAM Professional (BEAM Pro), BEAM Affiliate (BA)
and BEAM Assessor (BAS).

BEAM Society

Limited

(BSL)

Development of BEAM Plus Existing Buildings Version 3.0	The development of EB v3.0 was led by the BSL Steering Committee, comprising industry practitioners and experts. Industry stakeholders have been consulted through engagement workshops to gather feedback and opinions on various aspects, including but not limited to, the overall framework, performance categories and their relative emphasis, assessment criteria, submission requirements and rating methodology. The Steering Committee comprises:
	Convener – Ir Alvin LO
	Members – Mr Benny AU, Mr Peter CHAN, Ir Prof CHAN Kwok Cheung Thomas, Mr TC CHAN, Ar CHEUNG Kong Yeung Thomas, Mr HO Lik Chi Nicholas, Ar Dr Tony IP, MH, Ms Melanie KWOK, Mr Andy LAI, Ms Sylvia LAM, Mr Andy LAU, Mr Alfred CK LEE, Ir Sr Jonathan LEE, Ir Sam LEE, Mr Stephen LEE, Mr K M SO, Ir Sr Martin WAN, Ms WONG Hiu Kwan Eva, Ir Matt YAU, Mr Andy YEUNG, Sr Kenneth YUN
	Advisors – Ms Claudia CHIU Mei Wan, Ms KONG Tsz Yan, Mr LAM Tsz- fung, Mr Benson LEE Yau-hang, Mr Wallace LEUNG
Disclaimer	BEAM Plus has been prepared with the assistance and participation of many individuals and representatives from various organisations. The outcome represents a general consensus, but unanimous support from each and every organisation and individual consulted is not implied. The BEAM Plus documentation shall be reviewed on a regular basis and as frequently as necessary. BSL reserves the right to amend, update and change this Manual from time to time without prior notice. Where changes in regulations necessitate changes to the assessment criteria, they will be issued to all parties involved in an assessment and will be announced in the BSL's website. An appropriate transitional period shall be allowed for projects undergoing assessment process.
	It shall be noted that none of the parties involved in the funding of BEAM, including BSL and its members, provide any warranties or assume any liability or responsibility to the users of BEAM, or any third parties for the accuracy, completeness or use of, or reliance on, any information contained in BEAM, or from any injuries, losses, or damages arising out of such use or reliance.
	As a condition of use, users covenant not to sue, and agree to waive and release BSL and its members from any and all claims, demands and causes of actions for any injuries, losses and damages that users may now or hereafter have a right to assert against such parties as a result of the use of, or reliance of BEAM.
Limitations	BSL does not endorse any self-assessed rating awarded by the use of BEAM Plus Existing Buildings Version 3.0.
	HKGBC offers a formal certification process of rating. Any users or parties without a formal certification are not entitled to issue any rating certification of BEAM Plus Existing Buildings Version 3.0.
Application and Eligibility	BEAM Plus EB v3.0 attempts to cover the management, operation and maintenance of all types and ages of existing buildings, from small single building to large buildings, including but not limited to commercial, educational, government, industrial, office and residential buildings, hotels and shopping centres etc.
	Existing buildings that have not been certified by BEAM Plus or other green building certificates are also encouraged to participate in this Scheme. For

assessment criteria that reference specific local or national policies, guidelines, or targets, the Applicants may substitute these with equivalent policies, regulations, or targets applicable in their own local or national context. The Applicants are required to provide appropriate documentation or evidence to demonstrate the equivalency and relevance of any substituted requirements. If there are no applicable local or national policies, guidelines, or targets, the Applicant is required to adopt the requirement as stipulated in this Manual.

BEAM Plus does not assess any buildings or portions of any buildings that are unauthorised by local building ordinance of their respective region. In case any non-compliance works or unauthorised portions in a building are reported, both HKGBC and BSL reserve the right to deprive the awarded rating from the Applicant.

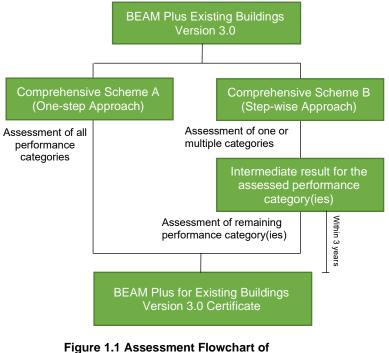
Assessment BEAM Plus concerns the interactions between the assessed building, neighbouring properties, and the neighbourhood in general. The assessment seeks to reduce negative impacts on neighbours and rewards efforts to improve the quality of the immediate surroundings to the benefit of the neighbourhood: the concept of 'good neighbour' buildings.

Under normal circumstances, BEAM Plus EB v3.0 only assesses those areas which are under the control of the Applicant. It is understood that the involvement of tenants also plays an important role in improving the building's environmental performance. Therefore, credit points could be awarded when the Applicant can demonstrate that their tenants are also getting involved in the assessment. Details shall be referred to the assessment criteria of individual credit head.

1.2 Framework

Certification Framework	The BEAM Plus EB v3.0 certification framework follows the 'Plan-Do- Check-Act' methodology to support the continuous improvement of buildings. This framework is designed to offer applicants greater flexibility, enabling them to participate in the green assessment in alignment with their program, budget, and technical capabilities. An assessment framework with 2 Schemes is designed and presented in Figure 1.1, including:
	i. Comprehensive Scheme A (One-step approach)
	All aspects under this Manual are assessed in one-go and one full certificate is offered if the requirements are fulfilled.
	ii. Comprehensive Scheme B (Step-wise approach)
	Combination of performance categories' assessment is allowed. Intermediate result(s) for the assessed performance categories(s) will be issued. The Applicant is required to update the necessary information of the assessed category(ies) and submit the remaining category(ies) within 3 years of the issuance of first intermediate result.
	An example of submission timeline is illustrated in Figure 1.2.
	Comprehensive Scheme B is designed for buildings that need to be upgraded in order to achieve BEAM Plus certification. Building management may not have the full budget and sufficient time to upgrade all the systems in a single financial year. The intermediate certificate can recognise their effort in improving their building

certificate can recognise their effort in improving their building performance in certain area(s) before the final full certification. Buildings will be assessed and graded with the same standard under Comprehensive Scheme A.



BEAM Plus Existing Buildings Version 3.0

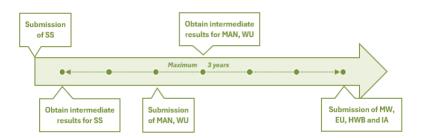


Figure 1.2 Example of submission timeline for Comprehensive Scheme B

Provisional Assessment (PA) is optional exclusively under Comprehensive Scheme A only and is not permitted under Comprehensive Scheme B. Please refer to the BEAM Plus Procedures Manual (Assessment) for more details.

- **Certification Process** Independent BEAM Assessors (BAS) or BSL in-house BAS would be assigned to each project to undertake the assessment works. The Assessment Sub-committee (ASC) of BSL will review the assessment reports done by the BAS, endorse the assessment results, and HKGBC to subsequently issue the certification. Detail assessment procedures can be found in the BEAM Plus Procedures Manual (Assessment) which is available in the HKGBC and BSL websites.
- **Documentation** The Applicant has the obligation to provide evidence demonstrating credit compliance. In BEAM Plus EB v3.0, only sufficient amount of material (by way of example) is required for submission. However, the Applicant must make sure all supporting information is timely collected and properly documented. If the BEAM assessor deems it necessary to request additional materials of the same sort for clarification, the Applicant is obligated to produce such materials upon request.
- Certification Fees BEAM Plus EB v3.0 certification fee comprises 2 parts, namely Registration Fee and Assessment Fee which are payable to HKGBC and BSL respectively. Optional processes like Credit Interpretation Request (CIR) and Appeals are subject to separate published charges. Details on the fee structure can be found in the HKGBC and BSL websites.
- **Certificate Validity** The validity of the BEAM Plus EB v3.0 Certificate can be referenced on the HKGBC's website.

If the Applicant fails to submit the required ongoing data report on an annual basis, the certificate will become invalid until the necessary data is submitted. This does not impact the grading, as the submission of ongoing data is solely required to maintain the certificate's validity.

- **On-going Data Report** The ongoing data report, which contains key sustainability data of the building, must be submitted annually by the Applicant following the issuance of the BEAM Plus EB v3.0 Certificate. This report demonstrates the ongoing tracking and monitoring of building performance. Notably, only those credits submitted for assessment will require annual submission of ongoing data. Details can be found in the submittal criteria for individual credits. Submittals that require ongoing data reports are denoted with the symbol "^".
- Buffer Period for
Record- RelatedAll record-related submissions such as building records, certificates, and
measurement reports, are granted a 6-month buffer period unless
otherwise specified.

For instance, MAN-03-01 on Staff Training and Resource requires the staff

	training records for the past 12 months. Suppose the Applicant is making an initial submission on 1 January 2024. In that case, the Applicant may opt to provide a continuous 12-month record from either 1 July 2022 to 30 June 2023 or from 1 January 2023 to 31 December 2023 to fulfill the credit requirement. Initial submission refers to the first submission made either for Provisional Assessment or Final Assessment.
	To maintain uniformity throughout the assessment process, the assessment period selected for record-related submissions must remain consistent across all credits and aspects. For example, if an Applicant opts to provide a continuous 12-month record from 1 July 2022 to 30 June 2023 for one credit, the same assessment period should be applied to all other credits requiring similar documentation.
Compliance Standards for Existing Provisions	BEAM Plus EB v3.0 assesses current building conditions. Pre-existing provisions that meet the stipulated requirements are acceptable for credit compliance. New installations for assessment are not mandatory.
Performance Categories	In BEAM Plus EB v3.0, credit heads are grouped into the following categories:
	 Management (MAN); Sustainable Site (SS); Materials and Waste (MW); Energy Use (EU); Water Use (WU); Health and Wellbeing (HWB); Innovations and Additions (IA).
	While BEAM Plus EB v3.0 adopts similar categories as in other BEAM Plus tools, the number and nature of credit heads within each category are specific to the context of operation, maintenance and management of existing buildings in different locations.
Management (MAN)	MAN focuses on the sustainable management of the occupied buildings during operation. The main objectives of MAN are as follows:
	 i. Environmental, Health and Safety (EHS) and Energy Management; ii. Environmental, Social, and Governance (ESG) Disclosure; iii. Operation and Maintenance; iv. Green and Healthy Management.
Sustainable Site (SS)	SS focuses on the design and planning issues, and the integration of neighbourhood and site location. The main objectives of SS are as follows:
	 i. Pollution Prevention and Control; ii. Urban Biodiversity; iii. Heat Island Reduction; iv. Building-scale Climate Adaptation Measures; v. Neighbourhood Integration; vi. Low Carbon Commuting.
Materials and Waste (MW)	MW focuses on the green procurement practice and minimisation of waste generation. The main objectives of MW are as follows:
	i. Selection of Materials;ii. Waste Reduction;iii. Best Practice on Material Usage.

Energy Use (EU)	EU focuses on the evaluation of energy performance and reduction of energy consumption during occupancy. The main objectives of EU are as follows:			
	i. ii. iii.	Energy Use Reduction and Control; Renewable and Alternative Energy Generation; Energy Management and Analysis.		
Water Use (WU)	WU focuses on the reduction of water consumption and discharge management. The main objectives of WU are as follows:			
	ii. iii.	Water Conservation; Effluent; Water Harvesting and Recycling; Water Management.		
Health and Wellbeing (HWB)	HWB focuses on human development and indoor environmental quality. It is designed to expand the scope of previous indoor environmental quality (IEQ) category and adopt human-centric design elements. The main objectives of HWB are as follows:			
	iii.	Green & Healthy Living; Human Scaled Living; Indoor Environmental Quality; Good Hygiene Practices.		
Innovations and Additions		cuses on promoting and rewarding true innovations. The main objective is as follows:		
(IA)	i.	Innovation Techniques.		
Credit Point Allocation	Credits points have been broadly allocated to each assessment criterion by taking into account other internationally recognised green building assessment tools as well as the sensitivity analysis and the comments received during the stakeholder engagement workshops.			
Credit Code	each	EAM Plus tools will adopt the same nomenclature. The classification of credit is divided into three levels which includes: i) Performance gory, ii) Performance sub-category and iii) Credit head.		

Abbreviation of the performance category Order of the corresponding performance sub-category Order of the corresponding performance sub-category

The coding system of each credit consists of English letters and Arabic numbers. The first level of the coding system is the performance category which adopts the abbreviation. The second level is coded by Arabic numbers to present the corresponding performance sub-category. The third level represents the order of credit head.

Absolute Point-	Having reviewed the local and international assessment schemes as well as
Based Scoring	echoing the design principle of "Simple", the assessment result is calculated
	based on the total credit points achieved across the performance categories without category weighting or averaging scores.

IA Credit Point The IA credit points in BEAM Plus EB v3.0 contribute to the total credit points earned across various performance categories. Each successful IA credit adds one (1) point to the total, with a maximum of ten (10) IA credit points available in the IA performance category for achieving a higher overall score in the assessment.

Determination of
Overall RatingThe rating for projects certified under BEAM Plus EB v3.0 is calculated with
the absolute point-based scoring system and subject to the following
conditions:

- i. Achieving the overall credit points required;
- ii. Obtaining the minimum credit points in each performance category listed below.

EB v3.0 Certification						
Overall Credit Points Achieved	Minimum credit points required in each performance category (excluding IA)	Rating				
75 points		Platinum				
65 points	MAN, SS, MW, WU & HWB: 4	Gold				
55 points	EU: 15	Silver				
40 points		Bronze				

If a project fails to meet the minimum credit points required in each performance category (excluding IA) and/ or does not achieve the overall credit points necessary for at least a Bronze rating, it will be regarded as "Assessment Completed Without Any Rating."

The maximum attainable score for any project is 100 credit points plus 10 IA credit points.

1.3 Summary of Credits

	Credit Head	Cre	dit Requirement		Credit Point(s
2 Management (MA					38
MAN-01-02	Building Environmental Excellence	(a)	Tools Silver Rating Platin		5
			New Buildings (NB) Existing Buildings (EB) (Comprehensive Scheme) The certification shall remain valid within 6 months prior of the first assessment submission. If the Applicant is making an initial submission on 1 Jar they shall ensure that the certificate is still valid on 1 J fulfill the credit requirement.	nuary 2025,	
		(b)	 Environmental Excellence Certificate Maximum 3 credit points can be achieved, with point awarded for each environmental resolutions. The certificate shall cover all <i>controlled areas within the assessment bound</i> 1. IAQ Certification Scheme (whole building) 2. Quality Water Supply Scheme for Burlushing Water; 3. Wastewi\$e Certificate under The Hong Korner (Interpretation Certification (HKGOC); 4. Energywi\$e Certificate under HKGOC; 5. IAQwi\$e Certificate under HKGOC; 6. Carbon Reduction Certificate; 7. Hong Kong Awards for Environmental E (HKAEE) – Property Management Sector 8. ISO 14001 Certificate; 9. ISO 50001 Certificate; 10. Other green building related awards/ certificate and and should be available of the schemes/ campaigns which are not listed 	ecognition Applicant- lary. ; uildings – ong Green Excellence Award; ertification	
MAN-02-01	Environmental, Social and Governance (ESG) Disclosure	(a)	ESG Committee 1 credit point for establishing a committee to the building ESG issues.	o oversee	2
		(b)	Policies on ESG Issues 1 credit point if the building has adopted at lead different policies on ESG issues.	ast five (5)	

	Credit Head	Cre	dit Requirement	Credit Point(s)
MAN-02-02	Net-zero Transition Plan	(a)	Near-term Decarbonisation Target (Scopes 1 and 2) 1 credit point for establishing near-term absolute Scopes 1 and 2 GHG emissions reduction target.	7
		(b)	Near-term Decarbonisation Target (Scope 3)	
			1 credit point for establishing near-term Scope 3 GHG emissions reduction target.	
		(c)	Near-term Decarbonisation Target (Validation)	
			1 credit point if the near-term decarbonisation target is validated by Science Based Targets initiative (SBTi).	
		(d)	Long-term Decarbonisation Target	
			1 credit point for establishing long-term decarbonisation target.	
		(e)	Long-term Decarbonisation Target (Validation)	
			1 credit point if the long-term decarbonisation target is validated by Science Based Targets initiative (SBTi).	
		(f)	Net Zero Commitment	
			1 credit point for the building management's commitment to achieving net zero by 2050.	
		(g)	Net Zero Commitment Disclosure	
			1 credit point will be awarded if the building owner discloses its net-zero transition plan and targets to the public.	
MAN-02-03	Resilience	(a)	Climate-related Physical Risks and Opportunities	3
	·		1 credit point for detailing the climate related physical risks and opportunities identified, the methodology used for the assessment and the key metrics where applicable.	
		(b)	Transition Risks and Opportunities	
			1 credit point for detailing the transition risks and opportunities identified, the methodology used for the assessment and the key metrics where applicable (Metrics shall include energy, water, land use and waste management where relevant and applicable).	
		(c)	Evaluation of Climate Resilience	
			1 credit point for conducting climate-related scenario analysis to evaluate their climate resilience in the face of extreme weather events.	

	Credit Head	Cre	dit Requirement	Credit Point(s)
MAN-03-01	Staff Training and Resources	(a)	BEAM Accredited Personnel 1 credit point for building-in-charge/ team lead has accredited with BEAM Pro qualification for EB v3.0.	3
		(b)	Professional Qualified Personnel	
			1 credit point if the building-in-charge/ team lead under (a) above holds a professional qualification for the facilities management sector.	
		(c)	Staff Training	
			1 credit point for providing adequate and periodic training for the staff responsible for the MO&M of the individual building project/ each building project in the building portfolio.	
MAN-03-04	Smart Facility Management	(a)	Good Practices for Operation and Maintenance Service	6
			1 to 2 credit point(s) for implementing at least five (5)/ ten (10) applicable good practices as stipulated in Best Practices for Operation and Maintenance Service published by EMSD. These practices can be selected from Best Practices Booklets and Handbooks on HVAC Installations, Electrical Installations or Lift and Escalator Installations.	
		(b)	Best Practices for Operation and Maintenance Service	
			1 to 2 credit point(s) for implementing at least five (5)/ ten (10) applicable best practices as stipulated in Best Practices for Operation and Maintenance Service published by EMSD. These practices can be selected from Best Practices Booklets and Handbooks on HVAC Installations, Electrical Installations or Lift and Escalator Installations.	
		(c)	Digitalised Operation	
			1 credit point for adopting digitalised facility management system for operation.	
		(d)	Digitalised Maintenance	
			1 credit point for adopting digitalised facility management system for maintenance.	
MAN-03-05	BIM Integration	(a)	Maintenance of BIM Model	3
			1 credit point for maintaining BIM model including as- built fixtures, finishes and equipment data.	

	Credit Head	Cre	redit Requirement	
	(1		Use of BIM Model (Asset Management) 1 credit point for using BIM model for asset management.	Point(s)
		(c)	Use of BIM Model (Facility Management) 1 credit point for using BIM model for facility management.	
MAN-04-01	Green Lease	(a)	Green Lease Incentive	4
			1 credit point for including measurable KPIs or sustainability tasks in the green lease.	
		(b)	Green Lease Coverage	
			1 to 3 credit point(s) will be awarded if at least 5%/ 10%/ 15% of leased areas implement a green lease.	
MAN-04-05	Tenant Engagement	(a)	Capacity Building Programme(s)	5
	Programme		1 credit point for organising capacity building programme(s) to the tenants for at least 10% of leased area.	
		(b)	Carbon Audit to Tenants	
			1 credit point for conducting carbon audit to tenants covering at least 5% of the leased area to help identify opportunities for decarbonisation.	
		(c)	Decarbonisation Targets for Tenants	
			1 credit point for assisting tenants in establishing decarbonisation targets based on the findings of the carbon audit.	
		(d)	Award for Recognition	
			1 credit point for organising award for recognition of excellence in sustainability performance of tenants.	
		(e)	Carbon Related Pledge	
			1 credit point for implementing sustainability related pledge, with measurable KPIs or sustainability tasks for at least 10% of leased area.	

	Credit Head	Credit Requirement	Credit Point(s)
3	Sustainable Sit	e (SS)	17
SS-01-01	Promotion of Public Transportation	1 credit point for the availability of convenient pedestrian access to mainstream public transport.	1
	ranopentation	Alternatively,	
		1 credit point for achieving Accessibility Index of 15 or more for all building types of a development.	
SS-01-05	Noise Control for Building Equipment	1 credit point for demonstrating the level of the intruding noise at the façade of the potential Noise Sensitive Receivers (NSRs) is in compliance with the criteria stipulated in the Technical Memorandum for the Assessment of Noise from Places Other than Domestic Premises, Public Places or Construction Sites.	1
SS-02-01	Lighting Pollution Mitigation	1 to 2 credit point(s) for switching off landlord's controlled external lightings from 23:00 to 07:00 or 22:00 to 07:00. <i>Alternatively,</i>	2
		1 to 2 credit point(s) for the building being awarded with a Platinum or Diamond Award under "Charter on External Lighting";	
		or	
		2 credit points for the absence of landlord's controlled external lighting.	
SS-02-02	Site Biodiversity	1 credit point for implementing measures to enhance the biodiversity of the site.	1
SS-03-01	Urban Heat Island Mitigation Measures	1 credit point for demonstrating the implementation of adequate measures to mitigate the urban heat island effect within the project.	1
SS-04-02	Building-scale Climate Adaptation Measures	 Maximum 4 credit points for incorporating one (1) to four (4) best practices as listed below into the building's climate adaptation plan: i) Heat waves; ii) Typhoon; iii) Lightning; iv) Heavy precipitations; v) Flooding; vi) Londelide; 	4
		vi) Landslide; vii) Others.	

	Credit Head	Credit Requirement			Credit Point(s)
SS-05-01 Neighbourhood Integration			 following items: i) On-site venues or engagement; ii) A permanent onsit promoting local am services available in the quality of life for iii) At least two (2) volu engagement atten building manageme 	ding at least two (2) of the public spaces for community re display or digital platform enities, such as facilities and in a nearby area that enhance building users; unteer activities for community ded by employees of the	<u>2</u>
			available to the pub	lic free of charge annually; osed by the Applicant.	
			1 credit point for provi	ding at least two (2) of the mmunal spaces/ strategies to	
			equipped with sea charge; ii) Outdoor garden v	e on-site resting spaces ating areas, available at no vith natural and restorative	
			etc.; iii) No smoking is all spaces except desi at least 7.5m away f intake;	trees, plants, water features, owed for outdoor communal gnated smoking area located rom all entrances and fresh air	
			 locally sourced food v) Canopy with a minir protected zone aga at outdoor/ semi-out 	sed on-site market offering l; num width of 2m, serving as a inst wind-driven rain/ sunlight tdoor communal area; osed by the Applicant.	
SS-05-02	Active Commuting Support		dit point for providing at ies in supporting active c	least two (2) of the following ommuting:	1
		List	of facilities		
		-	jular occupants' access	Regular occupants' access	
			howers	to lockers	
		cyc occ	ignated spaces of ing parking for regular upants	Designated areas for bicycle washing & maintenance	
		Oth	er features proposed by t	he Applicant	

	Credit Head	Cre	dit Requirement	Credit Point(s
SS-06-01	EV Charging Facilities	(a)	Medium EV Charging Facilities	4
			1 to 2 credit point(s) for providing medium chargers (output power \ge 7kW) for at least 2.5% or 5.0% of all parking spaces for private cars, motorcycles and light good vehicles.	
		(b)	Quick EV Charging Facilities	
			1 credit point for providing at least two (2) EV quick chargers (≥ 50kW) in the carpark.	
		(c)	Fast EV Charging Facilities	
			1 credit point for providing at least one (1) fast charger (output power ≥ 100kW) in the parking spaces designated for coaches, light buses or and medium/ heavy goods vehicles.	

	Credit Head	Cre	dit Requireme	ent			Credit Point(s)
4	Materials and V	Waste	(MW)				29
MW-02-03	Ozone Depleting Substances	1 ci refri		demonstratin Blobal Warming	g all the equ	uipment using WP) fulfils the	1
		Opt	ion 2: Calcula	tion of Refrig	erants Impac	;t	
		1 credit point for demonstrating all the equipment using refrigerants with a combined Ozone Depletion Potential (ODP) and GWP value less than or equal to the threshold.				tion Potential	
		Opt	ion 3: Refrige	rants Manage	ement		
		for		ment with ref		vn programme ^o value > the	
MW-02-05	Use of Green Products	(a)	Green Build	ing Compone	nts		6
			use certified 10%, 20% or The products Certification standards.	green building 30% of the tot shall be certifi	g components al building con ed under CIC internationally	Ū	
			Building Comp	onents			
			Panel Board	Ceramic Tile	Adhesive & Sealant	Stone	
			Paint & Coating	Pavement Block	Thermal Insulation	Ready-mixed Concrete	
			Glazing	Plant-based Fibre Composite	Block for Internal Partition	Other products proposed by the Applicant	
		(b)	Green Buildi	ing Services	Systems		
			retrofitting we systems equ building serv certified unde internationally	orks use certil ivalent to 10% ices systems er CIC Green F y recognised s	ied green bui 6, 20% or 30 cost. The pro Product Certifi tandards.	d when major ilding services % of the total ducts shall be cation or other	
				ding services s	systems are si		
			Building Service	VRF Split	Cooling	Air-handling	
			Insulations Fan Coil Unit	Type System Chiller	Tower Water Pump	Unit Cable & Wire	
			· · · · · · · · · · · · · · · · · · ·				

Lighting (LED lighting, Compact Fluorescent Lamp Bulb, Electronic Ballast)

Other products proposed by the Applicant

	Credit Head	Cre	dit Requirement			Credit Point(s)
MW-02-06	Life Cycle Costing			nducting life cycle c undertaking major re		1
MW-03-02 Enhanced		(a)	Recyclables Co	ollection		6
Waste Handling Facilities		collection serv	nt(s) for demonstratir ices or on-site r age area of any threastreams:	ecycling facilities/		
		Waste Streams				
			Rechargeable Batteries	Regulated Electrical Equipment (REE)	Beverage Cartons	
			Fluorescent Lamps and Tubes	Restaurant Waste (Used Cooking Oils, Grease Trap Waste)	Small Electrical Appliances (cookers, toasters, ovens, irons, hair- dryers, phones, etc.)	
			Dried/ Canned Food	Food Waste	Paper/ Carboard, Metal and Plastics	
			Glass	box, clothes)	red pocket, mooncake	
		Other recyclables may be proposed at the discretion of the Applicant				
		(b)		point(s) for demons		
		(b)	1 to 3 credit p recycling percer meeting the pre	point(s) for demons ntage by weight over scribed requirements	the past 12 months S.	
		(b)	1 to 3 credit precycling percer	point(s) for demons ntage by weight over	the past 12 months s. ng Percentage	
		(b)	1 to 3 credit p recycling percer meeting the pres	point(s) for demons ntage by weight over scribed requirements Annual Recyclir	the past 12 months S. ng Percentage	
		(b)	1 to 3 credit p recycling percer meeting the pres Credit Point(s)	Doint(s) for demons ntage by weight over scribed requirements Annual Recyclin 109	the past 12 months s. ng Percentage 6	
		(b) (c)	1 to 3 credit p recycling percer meeting the pres Credit Point(s) 1 2 3	boint(s) for demons ntage by weight over scribed requirements Annual Recyclin 109 159	the past 12 months s. Ig Percentage 6 6 above	
			1 to 3 credit p recycling percer meeting the pres Credit Point(s) 1 2 3 Recycling Tran 1 credit point wi	Doint(s) for demons ntage by weight over scribed requirements Annual Recyclin 109 159 20% or a	the past 12 months s. ng Percentage 6 6 above losure emises that publicly	
MW-03-04	Action to		1 to 3 credit precycling percer meeting the presenting the present	boint(s) for demons ntage by weight over scribed requirements Annual Recyclin 109 159 20% or a asparency and Disc Il be awarded for pre cycling performance	the past 12 months s. ng Percentage 6 6 above losure emises that publicly	3
МW-03-04	Action to Waste Reduction	(c)	1 to 3 credit p recycling percer meeting the pres Credit Point(s) 1 2 3 Recycling Tran 1 credit point wi disclose their re- basis. Waste Manage 1 credit point for	boint(s) for demons ntage by weight over scribed requirements Annual Recyclin 109 159 20% or a asparency and Disc Il be awarded for pre cycling performance	the past 12 months s. g Percentage 6 6 6 above losure emises that publicly data on a quarterly mplementing Waste	3
MW-03-04	Waste	(c)	1 to 3 credit p recycling percer meeting the pres Credit Point(s) 1 2 3 Recycling Tran 1 credit point wi disclose their re- basis. Waste Manage 1 credit point for	boint(s) for demons ntage by weight over scribed requirements Annual Recyclir 109 159 20% or a asparency and Disc Il be awarded for pre- cycling performance ment Plan or developing and im an (WMP) for buildin	the past 12 months s. g Percentage 6 6 6 above losure emises that publicly data on a quarterly mplementing Waste	3
ИW-03-04	Waste	(c) (a)	1 to 3 credit precycling percer recycling the presentation 1 2 3 Recycling Tran 1 credit point wi disclose their rebasis. Waste Manage 1 credit point for Management PI Waste Stream A	boint(s) for demons ntage by weight over scribed requirements Annual Recyclir 109 159 20% or a asparency and Disc Il be awarded for pre- cycling performance ment Plan or developing and im an (WMP) for buildin	the past 12 months ag Percentage 6 6 6 above losure emises that publicly data on a quarterly mplementing Waste ag operations.	3
MW-03-04	Waste	(c) (a)	1 to 3 credit precycling percer recycling the presentation 1 2 3 Recycling Trans 1 credit point widisclose their rebasis. Waste Manager 1 credit point for Management PI Waste Stream A 1 credit point for	boint(s) for demons ntage by weight over scribed requirements Annual Recyclir 109 159 20% or a asparency and Disc Il be awarded for pre- cycling performance ment Plan or developing and im an (WMP) for buildin Audit	the past 12 months s. Ig Percentage 6 6 6 above Iosure emises that publicly data on a quarterly mplementing Waste ig operations. tream audit.	3

6

Credit Head	Credit Requirement			Credit Point(s)
 Waste Reduction Performance	(a)	reduction by wei	nt(s) for demonstrating an annual waste ght for the past 12 months meeting the rements. Baseline year can be any year	6
		Credit Point(s)	Annual Waste Reduction Percentage	
		1	2%	
		2	4%	
		3	6%	
		4	8%	

(b) Continuous Improvement

1 credit point for demonstrating a continuous reduction trend of waste generation over the past 36 months.

MW-04-02Green
Purchasing
PracticesMaximum 6 credit points for purchasing environmentally
friendly or certified products for one (1) to six (6) types of
consumable or durable goods in the past 12 months.

Credit Point(s)	Percentage of Environmentally Friendly or Certified Item for each type of consumable or durable goods
1	60%
2	80%

Types of consumables and durable goods are shown below:

Consumable	
Packaging materials	Paper for printing and photocopying
Paper products other than for printing and photocopying	Plastic and rubber products
Printing and publishing supplies	Stationery and office supplies
Other consumable may be proposed	at the discretion of the Applicant
Durable Goods	
Computer equipment and products	Electrical appliances
Light fittings	Furniture
Containers and collection bins for water/ recyclables	Office equipment
Other durable goods may be propos	ed at the discretion of the Applicant

	Credit Head	Cre	dit Requiremer	nt	Credit Point(s)
5	Energy Use (El	J)			78
EU-00-01	Minimum Energy Performance	the Buil	requirements s ding Energy Au	nducting energy audit in accordance with stipulated in the Code of Practice for idit issued by Electrical and Mechanical nt, HKSAR Government.	1
EU-01-02	Reduction of CO ₂ Emissions	(a) (b)	Benchmarking and Benchmar the energy per of the project. Benchmarkin 1 to 4 credit p	for conducting benchmarking by EMSD Tool "Energy Consumption Indicators rk" or Energy Star Portfolio Manager for formance of the landlord's controlled area	19
				tile under EMSD Benchmarking Tool umption Indicators and Benchmark".	
			Credit Point(s)	Percentile under EMSD Benchmarking Tool	
			1	40 th	
			2	30 th	
			3	20 th	
			4	10 th	

1 to 4 credit point(s) when the energy performance of the landlord's controlled area of the project achieves the benchmarking results obtained from Energy Star Portfolio Manager.

Credit Point(s)	Percentage of Reduction of Project Energy Use Intensity (EUI) Compared with Median Weather Normalised Source EUI Obtained from Energy Star Portfolio Manager
1	EUI Improvement ≤ 10%
2	10% < EUI Improvement ≤ 30%
3	30% < EUI Improvement ≤ 50%
4	EUI Improvement > 50%

Credit Head	Cre	dit Requiremen	t	Credit Point(s)
	(c)	Self-improvem	ent of Energy Utilisation Index	
		index (EUI) is rewith that of the		
		EMSD Benchm Project Source	marking result ≥ 30 th Percentile under arking or (2) Percentage of Reduction of e EUI under Energy Star Portfolio % or (3) project only attempting EU-01-	
		Credit Point(s)	Percentage of reduction in Annual EUI	
		1	≥ 2%	
		2	≥ 3%	
		3	≥ 5%	
		4	≥ 7%	
		5	≥ 10%	
		6	≥ 13%	
		7	≥ 17%	
		8	≥ 21%	
		9	≥ 25%	
		10	≥ 29%	
		11	≥ 34%	
		12	≥ 39%	
		13	≥ 45%	
		EMSD Benchm	marking result of 20^{th} Percentile under marking / (2) Percentage of Reduction of e EUI under Energy Star Portfolio 6 and $\leq 50\%$:	
		Credit Point(s)	Percentage of reduction in Annual EUI	
		1	≥ 1%	
		2	≥ 2%	
		3	≥ 3%	

1	≥ 1%
2	≥ 2%
3	≥ 3%
4	≥ 4%
5	≥ 5%
6	≥ 7%
7	≥ 9%
8	≥ 11%
9	≥ 13%
10	≥ 15%
11	≥ 17%
12	≥ 20%
13	≥ 23%

Credit Requirement Credit Head Point(s)

For (1) Benchmarking result of 10th Percentile under EMSD Benchmarking / (2) Percentage of Reduction of Project Source EUI under Energy Star Portfolio Manager > 50%:

Credit Point(s)	Percentage of reduction in Annual EUI
1	≥ 0.5%
2	≥ 1%
3	≥ 2%
4	≥ 3%
5	≥ 4%
6	≥ 5%
7	≥ 6%
8	≥ 7%
9	≥ 8%
10	≥ 9%
11	≥ 10%
12	≥ 11%
13	≥ 12%

(d) Continuous Energy Consumption Reduction Trend

1 credit point when landlord's energy consumption has continuously decreased over the past 3 years.

EU-01-03	Peak Electricity Demand	(a)	Development of Peak Demand Management Plan	2
	Reduction		1 credit point for developing a Peak Demand Management Plan.	
		(b)	Execution of Peak Demand Management Plan	
			1 credit point for executing the Peak Demand Management Plan.	

Credit

 EU-01-04 Metering and Monitoring (a) Metering Provisions for Landlord's Electrical Loads 1 credit point for equipping metering facilities to monitor and collect energy consumption data for landlord's electrical loads. (b) Metering Provisions for Landlord's Individual Electrical Loads 		Credit Head	Cre	dit Requirement	Credit Point(s
 Electrical Loads 1 to 2 credit point(s) for equipping metering facilities to monitor and collect energy consumption data for 2 or 4 numbers of the following electrical loads of landlord's controlled systems:	EU-01-04	-	(a)	1 credit point for equipping metering facilities to monitor and collect energy consumption data for landlord's	6
 monitor and collect energy consumption data for 2 or 4 numbers of the following electrical loads of landlord's controlled systems: 1) Chiller; 2) Chiller plant; 3) Cooling tower plant; 4) Consumer substation of district cooling system and associated water side system components; 5) Air side equipment; 6) Unitary/ VRV system (For building without chiller plant and not served by district cooling system); 7) Mechanical ventilation system (rated power ≥2.5kW); 8) Lighting installation; 9) Lift and escalator systems; 10) Plumbing and drainage systems; 11) Plug load/ receptable load/ small power. (c) Performance Auditing Maximum 3 credit points for equipping performance monitoring systems to monitor and collect operating performance data for the following landlord's controlled systems: a) Chiller; b) Chiller plant; c) Cooling towar plant. 			(b)	•	
 2) Chiller plant; 3) Cooling tower plant; 4) Consumer substation of district cooling system and associated water side system components; 5) Air side equipment; 6) Unitary/ VRV system (For building without chiller plant and not served by district cooling system); 7) Mechanical ventilation system (rated power >2.5kW); 8) Lighting installation; 9) Lift and escalator systems; 10) Plumbing and drainage systems; 11) Plug load/ receptable load/ small power. (c) Performance Auditing Maximum 3 credit points for equipping performance monitoring systems to monitor and collect operating performance data for the following landlord's controlled systems: 1 International collect operating Performance data for the following landlord's controlled system: a) Chiller plant; c) Cooling tower plant. <i>Alternatively</i>, For building served by district cooling system: a) Consumer side chilled water pumps. 				monitor and collect energy consumption data for 2 or 4 numbers of the following electrical loads of landlord's	
Maximum 3 credit points for equipping performance monitoring systems to monitor and collect operating performance data for the following landlord's controlled systems: Landlord's Controlled System 1 For building served by air-cooled/water-cooled chiller plant system: a) Chiller; b) Chiller; c) Cooling tower plant. Alternatively, For building served by district cooling system: a) Consumer side chilled water pumps.				 2) Chiller plant; 3) Cooling tower plant; 4) Consumer substation of district cooling system and associated water side system components; 5) Air side equipment; 6) Unitary/ VRV system (For building without chiller plant and not served by district cooling system); 7) Mechanical ventilation system (rated power ≥2.5kW); 8) Lighting installation; 9) Lift and escalator systems; 10) Plumbing and drainage systems; 	
monitoring systems to monitor and collect operating performance data for the following landlord's controlled systems: Landlord's Controlled System 1 For building served by air-cooled/water-cooled chiller plant system: a) Chiller; b) Chiller plant; c) Cooling tower plant. Alternatively, For building served by district cooling system: a) Consumer side chilled water pumps.			(c)	Performance Auditing	
1 For building served by air-cooled/water-cooled chiller plant system: a) Chiller; b) Chiller plant; c) Cooling tower plant. Alternatively, For building served by district cooling system: a) Consumer side chilled water pumps.				monitoring systems to monitor and collect operating performance data for the following landlord's controlled	
a) Consumer side chilled water pumps.				1 For building served by air-cooled/water-cooled chiller plant system: a) Chiller; b) Chiller plant; c) Cooling tower plant.	
				a) Consumer side chilled water pumps.	
2 Air side equipment 3 Mechanical ventilation system (rated power ≥2.5kW)					

3	Mechanical ventilation system (rated power ≥2.5kW)

Credit Point(s)	Landlord's Controlled System
1	Any one (1) landlord's controlled system
2	Any two (2) landlord's controlled systems
3	All three (3) landlord's controlled systems

	Credit Head	Credit Requirement	Credit Point(s)
EU-01-05	Energy	Option 1: For buildings with single user,	8 (For
	Performance		buildings
	Certificate	Route 1: EUI under the Energy Performance Certificate of	with single
		the Zero-Carbon-Ready Building Certification scheme by	user)/
		HKGBC:	12 (For
			buildings
		2 to 8 credit points when the project achieves the below rating:	with tenant spaces)

Credit Points	Rating under the Energy Performance Certificate
2	Low
4	Extra Low
6	Super Low
8	Zero-Carbon-Ready

Alternatively,

Route 2: Percentage Reduction under the Energy Performance Certificate of the Zero-Carbon-Ready Building Certification scheme by HKGBC:

1 to 4 credit point(s) when the project achieves the below rating:

Credit Point(s)	Rating under the Energy Performance Certificate
1	Level 1 improvement
2	Level 2 improvement
3	Level 3 improvement
4	Level 4 improvement

Option 2: For buildings with tenant spaces,

Route 1: EUI under the Energy Performance Certificate of the Zero-Carbon-Ready Building Certification scheme by HKGBC:

(a) 2 to 8 credit points when the landlord's controlled area of the project achieves the below rating:

Credit Point(s)	Rating under Energy Performance Certificate for Landlord's Controlled Area
2	Low
4	Extra Low
6	Super Low
8	Zero-Carbon-Ready

Credit Head	Credit Requirement	Credit Point(s)
	(b) 1 to 4 credit point(s) when the whole building's energy consumption of the project achieves the below rating:	

Credit Point(s)	Rating under the Energy Performance Certificate for Whole Building
1	Low
2	Extra Low
3	Super Low
4	Zero-Carbon-Ready

Alternatively,

Route 2: Percentage Reduction under the Energy Performance Certificate of the Zero-Carbon-Ready Building Certification scheme by HKGBC:

(a) 1 to 4 credit point(s) when the landlord's controlled area of the project achieves the below rating:

Credit Point(s)	Rating under the Energy Performance Certificate for Landlord's Controlled Area		
1	Level 1 improvement		
2	Level 2 improvement		
3	Level 3 improvement		
4	Level 4 improvement		

(b) 1 to 4 credit point(s) when the whole building's energy consumption of the project achieves the below rating:

Credit Point(s)	Rating under the Energy Performance Certificate for Whole Building
1	Level 1 improvement
2	Level 2 improvement
3	Level 3 improvement
4	Level 4 improvement

EU-02-01 Renewable **On-site Renewable Energy Application** (a) and Alternative Energy Systems

1 to 10 credit point(s) for using on-site renewable energy

systems to offset annual building energy consumption of landlord's controlled area.

Credit Point(s)	Percentage of Annual Building Energy Consumption of Landlord's Controlled Area		
1	0.2%		
2	0.4%		
3	0.6%		
4	0.8%		
5	1.0%		
6	1.2%		
7	1.4%		
8	1.6%		
9	1.8%		
10	2.0%		

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EU-04-03

Energy

Analysis

Credit Head	Credit Requirement	Credit Point(s)
	(b) Off-site Green Power	

1 to 5 credit point(s) for purchasing Energy Attribute Certificate (EAC) and/ or establishing Power Purchase Agreement (PPA) to offset annual landlord energy consumption.

For purchasing the EAC,

Credit Point(s)	Percentage of Annual Building Energy Consumption of Landlord's Controlled Area		
1	10%		
2	20%		
3	40%		
4	70%		
5	100%		

Alternatively,

For establishing PPA,

Credit Point(s)	Percentage of Annual Building Energy Consumption of Landlord's Controlled Area		
1	5%		
2	10%		
3	20%		
4	35%		
5	50%		

Building Energy Consumption (a)

1 credit point for providing total building energy consumption for landlord area for the past 12 months.

(b) Energy Breakdown for air-conditioning system

Option 1: For buildings with central A/C system

(1) 1 to 3 credit point(s) for providing energy consumption breakdown of water-side equipment for landlord's controlled area for the past 12 / 24 / 36 months for building served by air-cooled/ water-cooled air-conditioning system:

12 (for buildings with central A/C system); 9 (for buildings centralised A/C system

with deonly)

- a. Chiller plant;
- b. Chiller;
- c. Cooling tower plant (if applicable).

Alternatively,

1 to 3 credit point(s) for providing energy consumption of consumer side chilled water pumps for the past 12 / 24 / 36 months for building served by district cooling system.

	Credit Head	redit Head Credit Requirement		
			(2) 1 to 3 credit point(s) for providing energy consumption of air-side equipment (i.e. primary air unit, air handling units, etc.) for landlord area for the past 12 / 24 / 36 months.	Point(s)
			Option 2: For buildings with de-centralised A/C system only	
			1 to 3 credit point(s) for providing energy consumption of unitary/ VRV system for landlord area for the past 12 / 24 / 36 months.	
		(c)	Energy Breakdown for other system	
			1 to 3 credit point(s) for providing energy consumption breakdown of any two of the following systems for landlord's controlled area for the past 12 / 24 / 36 months:	
			 a. Lighting system; b. Mechanical ventilation system; c. Lift and escalator systems; d. Plumbing and drainage systems. 	
		(d)	Analysis of Building Energy Consumption	
			1 credit point for conducting annual review and analysis of energy consumption.	
		(e)	Carbon Audit	
			1 credit point for conducting carbon audit to measure all Greenhouse Gas emissions in Scopes 1 and 2, plus water and paper use under Scope 3, and at least one additional category under Scope 3, in accordance with The Greenhouse Gas Protocol.	
EU-04-04	Retro-	(a)	Planning Stage	11
	(RCx)		1 credit point to develop retro-commissioning plan for systems.	
		(b)	Investigation Stage	
			1 credit point to identify and select energy saving opportunities.	

Credit Head	Credit Requirement	Credit Point(s)
	(c) Implementation Stage	

Maximum 6 credit points for implementing the identified energy saving opportunities and conducting measurement and verification, preparing measurement and verification report and developing a retrocommissioning final report for the following applicable systems:

Credit Point	Active System(s)
1	Chilled water plant (For buildings served by chiller plant system) or
	Consumer side chilled water pumps (For buildings served by district cooling system)
1	Heat rejection plant
1	Air-side equipment of air conditioning system
1	Central hot water pump
1	Electrical system (including lighting system)
1	Lift and escalator installation

Credit Point	Passive System(s)
1	Façade system
1	Building roof

1 credit point for implementing identified energy saving opportunities for three (3) or more systems.

(d) Ongoing Commissioning Plan

1 credit point to develop an ongoing commissioning plan.

(e) Ongoing Commissioning Implementation

1 credit point to carry out ongoing commissioning in accordance with ongoing commissioning plan.

	Credit Head	Credit Requirement	Credit Point(s)
7	Water Use (WU)		26
WU-01-01	Use of Water Efficient Flow Devices	1 to 2 credit point(s) when 80% or 100% of all installed water taps and shower heads for bathing (if any) are certified with Water Efficiency Labelling Scheme (WELS) Grade 1 or equipped with WELS Grade 1 flow controllers.	2
WU-01-02	Water Efficient Irrigation	 (a) Smart Irrigation 1 credit point for demonstrating the use of smart irrigation technology/ system for irrigation. (b) Water Consumption Reduction by Irrigation Water 	2
		1 credit point for demonstrating at least 10% of reduction in fresh water consumption for irrigation in the landlord-controlled area over the past 36 months.	
WU-01-04	Water Leakage Detection	1 credit point for installing water leakage detection system(s) in all municipal potable water tank and pump rooms.	1
WU-02-01	Effluent Discharge to Foul Sewers	 (a) Water Closets 1 credit point for demonstrating all installed water closets are dual flush with Water Efficiency Labelling Scheme (WELS) Grade 1. 	2
		 (b) Urinals 1 credit point for demonstrating all urinals are sensor types with Water Efficiency Labelling Scheme (WELS) Grade 1. 	
WU-03-01	Water Recycling	 (a) Water Recycling System(s) – Feasibility 1 credit point for conducting feasibility study to evaluate the potential of installing water recycling system(s). 	4
		 (b) Water Recycling System(s) – Implementation 1 credit point for the application of water recycling system(s). 	
		(c) Water Consumption Reduction by Recycled Water 1 to 2 credit point(s) for demonstrating the annual amount of rainwater harvesting, grey and/ or black water recycling is at least 2.5% or 5% of the total annual fresh water consumption.	

	Credit Head	Cre	dit Requirement					
WU-04-01	Smart Water Metering	(a)	1 credit point for conducting feasibility study of installing					
				er(s) to monitor the total fresh water				
		(b)	Smart Water Me	tering – Implementation				
				demonstrating the provision of smart to monitor the total fresh water the building.				
WU-04-02	Fresh Water Consumption	(a)	Fresh Water Co Area	11				
	Monitoring and Reduction		1 credit point for providing total fresh water consumption record for the past 36 months for the landlord-controlled area.					
		(b)	(b) Fresh Water Consumption - Whole Building 1 credit point for extending the fresh water consumption records to cover the whole building for the past 36 months.					
		(c)	Self-Improveme	nt				
			1 to 8 credit point on fresh water controlled area o					
			Credit Point(s)	Net Percentage on Fresh water Consumption Reduction per Year				
			1	2%				
			2	4%				
			3	5%				
			4	6%				
			5	7%				
			6	8%				
			7	9%				
			8	≥ 10%				

1 credit point for demonstrating a continuous reduction trend on the annual landlord fresh water consumption over the past 36 months.

	Credit Head	Cre	Credit Point(s)	
WU-04-04	Quality and Safety of Water Supply	(a)	Water Supply System Safety Inspection1 credit point for conducting routine inspection inaccordance with the Guidelines for Drinking WaterSafety Plans for Buildings in Hong Kong.	2
			Alternatively,	
			1 credit point for achieving Blue or above certificate under Quality Water Supply Scheme for Buildings – Fresh Water (Management System).	
		(b)	Water Audit	
			1 credit point for conducting a water audit and maintain a water use inventory.	

	Credit Head	Credit Requireme	nt			Credit Point(s)	
8	Health and We	llbeing (HWB)				28	
HWB-01-01	Healthy and Active Living1 credit point for providing at least two (2) of the following healthy and active living features.						
		Healthy and active live	ving features				
		Provide information bo signage about facil services related to activities at commu	ities and physical		e for building users is le to all occupied floors		
		Provide one (1) showe room facility at comm		promot	e activity spaces that e physical activity for sers at communal areas		
		Provide easily access dispensers for tenants throughout the b	and visitors		secure, sheltered, and sible bicycle storage		
		Oth	ers to be prop	osed by App	licant		
HWB-01-02	Biophilic Design	1 credit point for pr biophilic design fea of the building.	1				
		List of amenities for	biophilic des	ign features	/ strategies		
		Provision of indoor plants (e.g. potted plants, plant walls)	plants (e.g. potted elements (e.g. water (e.g. skylights, large		(e.g. skylights, large		
		Use of natural materials (e.g. wood, bamboo, rattan or cork)	Mimicking nati	-	Establish visual connections to nature (e.g. views of natural environment within/ outside assessment boundary)		
		Other					
HWB-01-03	Physical Activity and Mental Health Programme	1 credit point for organising physical activity and/ or mental health programme for the building users on annual basis.				1	
HWB-02-01	Inclusive Design	(10) applicable "Recommende	ooint(s) for e enhanced ed Design sign Manua	l provision Requiren I - Barrier	at least five (5)/ ten s as stipulated in the nents" of the latest Free Access issued	3	

	Credit Head	Credit Requiremen				Credit Point(s	
		(b) Family Friend	ly Facilitie	es			
		1 credit point friendly facilities					
		List of family friendly	features				
		Dedicated play areas fr with shaded seating a care-takers		accessible	ne washroom (excluding toilets) is equipped with protection seat with a safety belt		
		At least one standalo washroom	ne family	At least on	e babycare room for the public		
		At least one lactation ro	om for staff	Others t	o be proposed by the Applicant		
HWB-02-02	Amenities for Operation and Maintenance	1 to 2 credit point(s) for providing at least three (3)/ six (6) of the following amenities/ features.					
		List of amenities for o	peration and	d maintenan	ce		
		Aerial working platform	Cat la	adder	Central control room		
		Gondola	Monitoring (CCMS) c	ontrol and System or Building ent System	Guard room		
		Maintenance platform for building services installations (e.g. wire mesh platform for chillers/ cooling towers)	manageme refer to designated carrying maintenand and repain The m workshop equipped worktable, tools and	for facility ent (shall a room I for out ce activities ring works. naintenance shall be with repairing any other / facilities lling the	Moveable working platform		
		Others	to be propos	sed by the Ap	oplicant		
IWB-03-01	Ventilation Performance	(a) Minimum Vent	tilation (C	alculatior	h)	2	
			ceeds the AE Standa	minimum ard 62.1-2			
		1 credit poir	nt for c	onducting	measurement to oor air has been		

	Credit Head	Credit Requirement				Credit Point(s	
HWB-03-03	Indoor	(a) Background Noise Level					
	Acoustic Environment		1 cradit paint fo	r domonstrating has	karound poice lovele		
	Environment		within the prese	5	kground noise levels		
		(b)	Reverberation Time				
			time in the a	5	at the reverberation eets the prescribed		
		(c)	Noise Isolation	n			
				or demonstrating airles fulfils the prescribe	oorne noise isolation ed criteria.		
HWB-03-05	Continuous IAQ Monitoring	(a)	 (a) Provision of IAQ Sensor 1 to 2 credit point(s) for installing an IAQ sensor for every 500m² and at least one (1) per floor to measure at least four (4)/ six (6) of the following parameters in a normally occupied or common space within the assessment boundary: 				
		List of Parameters					
			PM _{2.5}	PM ₁₀	Carbon dioxide		
			Total VOCs	Nitrogen dioxide	Ozone		
		C	Carbon monoxide	Formaldehyde	Radon		
		(b)	setting out the r parameters fail	or buildings with a re nitigation measures, to meet the Good C	esponse mechanism when the monitored lass requirements of ronmental Protection		
		(c)	Real-time IAQ Data Disclosure				
			1 credit point for publishing the data from such continuous monitoring from selected locations in the building, in real time to its building users.				
HWB-03-06	Thermal	(a)	a) Temperature and Humidity Control				
	Comfort Monitoring		1 credit point for demonstrating the temperature and the relative humidity meet the prescribed criteria in the communal areas with air conditioning.				
		(b)	Continuous Monitoring				
			1 credit point monitoring.	for installing sens	sors for continuous		

Credit Head	Cre	dit Requirement	Credit Point(s)
Acceptable Lighting Performance	(a)	Lighting Performance in Normally Occupied Spaces 1 credit point for demonstrating the illuminance level, unified glare rating limit and uniformity in normally occupied spaces meet the prescribed area.	2
	(b)	Lighting Performance in Not Normally Occupied Spaces	
		1 credit point for demonstrating the illuminance level and unified glare rating limit in not normally occupied spaces meet the prescribed criteria.	
Daylight	10%	6 for a minimum of 80% of the total internal floor area of	1
	Acceptable Lighting Performance	Acceptable (a) Lighting Performance (b) (b) Daylight 1 cr	Acceptable Lighting Performance (a) Lighting Performance in Normally Occupied Spaces 1 credit point for demonstrating the illuminance level, unified glare rating limit and uniformity in normally occupied spaces meet the prescribed area. (b) Lighting Performance in Not Normally Occupied Spaces 1 credit point for demonstrating the illuminance level and unified glare rating limit in not normally occupied spaces meet the prescribed criteria.

	Credit Head	Credit Requirement		Credit Point(s)
HWB-03-10	Water Quality Survey and Access to Drinking Water		nonstrating that the quality of /SD's latest guideline [1].	2
		Parameter(s)	Criteria	
		Chemical and Physical		
		Turbidity	≤ 3.0 NTU	
		Colour	≤ 5 Hazen Unit	
		pH at 25°C	≥ 6.5 and ≤ 9.5	
		Free Residual Chlorine	> 0 mg/L and ≤ 1.5 mg/L	
		Conductivity at 25°C ≤ 500 µS/cm		
		Metals		
		Lead	≤ 10 µg/L	
		Chromium	≤ 50 µg/L	
		Nickel	≤ 70 μg/L	
		Cadmium	≤ 3 μg/L	
		Copper	≤ 2000 µg/L	
		Antimony	≤ 20 µg/L	
		Bacteriological		
		Heterotrophic Plate Count	≤ 20 cfu/mL	
		E. Coli	0 cfu/100 mL	

The water quality survey shall be conducted by a HOKLAS accredited laboratory and water sampling shall follow the latest WSD's water sampling protocol.

The minimum sampling locations and frequency shall be as follows:

- a. All potable water tank(s) on yearly basis;
- b. Farthest point of each distribution route which is for drinking purpose on yearly basis;
- c. Drinking purpose means that the potable water serving the F&B, kitchen, and pantry areas is intended solely for drinking purposes, excluding the potable water for lavatories;
- d. All water dispensers on quarterly basis.

(b) Access to Drinking Water

1 credit point for providing at least one water dispenser within assessment boundary which is accessible to the public.

	Credit Head	Cre	dit Requiremen	t		Credit Point(s)		
HWB-03-11	Air Filtration and Purification Treatment	(a)	Particle Filtrat 1 credit point fo 12 in all landlo serving norma Section 9.2 of t	2				
		(b)	Air Purification	n Treatment				
HWB-04-02	Health Protection		 1 credit point for providing an air purification technique in the centralised mechanical ventilation system (i.e. ventilation fan/ air handling unit with air ducting serving multiple spaces) or a standalone air purification device for the localised mechanical ventilation system (i.e. ventilation fan serving a single space) in all landlord's controlled normally occupied spaces as defined under Section 9.2 of the Appendices. 1 to 2 credit point(s) for providing at least three (3)/ six (6) of the following health protection measures/ features. 					
		Lis	t of health protection	on measures/ features				
		Blo	od pressure meter	Oximeter	Face mask			
		[Disinfectant wipe	AED	First aid kit			
			Hand-held Clinic room Automatic disinfection station					
			Hand washing ations (other than ose in washroom)	Contactless lift button for at least 50% of lift	Contactless door release button for at least 50% of the main doors of entrances/ exits			
			Others	to be proposed by the Ap	oplicant			

	Credit Head	Credit Requirement	Credit Point(s)		
9	Innovations ar	d Additions (IA)	10		
IA-01-01	Innovations and Additions	Maximum 10 credit points for IA.	10		

2. Management

Effective management of building operations and maintenance is a key factor in enhancing the environmental performance of buildings, especially existing ones. The 'Management' category assesses the overarching management system, including policies, procedures, staffing, resources, and the involvement of building users, to ensure buildings operate at their maximum sustainable potential.

The following Credit Heads are not applicable under EB v3.0:

Credit Code	Credit Head
MAN-00-01	Green Purchasing Plan
MAN-01-01	EHS and Energy Management System
MAN-03-02	Building and Site Operation and Maintenance
MAN-03-03	Building Services Operation and Maintenance
MAN-04-02	Green Cleaning
MAN-04-03	User Guidance
MAN-04-04	Occupational Health and Safety (OHS)

- 2 Management MAN-01 EHS and Energy Management
 - MAN-01-02 Building Environmental Excellence
 - **Objective** Recognise the effort of achieving previous BEAM Plus certifications and/ or similar awards organised by other organisations.

Credit point(s) Attainable 5

Credit Requirement

(a) Complimentary Certification

1 to 2 credit point(s) for the building being certified with a final certification rating by any of the following BEAM Plus Assessment Tools:

BEAM Plus Assessment Tools	Bronze or Silver Rating	Gold or Platinum Rating
New Buildings (NB)		
Existing Buildings (EB) (Comprehensive Scheme)	1	2

The certification shall remain valid within 6 months prior to the date of the first assessment submission.

If the Applicant is making an initial submission on 1 January 2025, they shall ensure that the certificate is still valid on 1 July 2024 to fulfill the credit requirement.

(b) Environmental Excellence Certificate

Maximum 3 credit points can be achieved, with 1 credit point awarded for each environmental recognition obtained. The certificate shall cover all Applicant-controlled areas within the assessment boundary.

- 1. IAQ Certification Scheme (whole building);
- 2. Quality Water Supply Scheme for Buildings Flushing Water;
- 3. Wastewi\$e Certificate under The Hong Kong Green Organisation Certification (HKGOC);
- 4. Energywi\$e Certificate under HKGOC;
- 5. IAQwi\$e Certificate under HKGOC;
- 6. Carbon Reduction Certificate;
- Hong Kong Awards for Environmental Excellence (HKAEE) Property Management Sector Award;
- 8. ISO 14001 Certificate;
- 9. ISO 50001 Certificate;
- 10. Other green building related awards/ certification schemes/ campaigns which are not listed above.

Assessment

(a) Complimentary Certification

- 1. Provide supporting documentation showing the attainment of BEAM Plus NB/ EB (Comprehensive Scheme) certification.
- 2. The certification shall remain valid within 6 months prior to the date of the first assessment submission.

(b) Environmental Excellence Certificate

- 1. Provide supporting documentation showing the attainment of the certificate(s).
- 2. The certification(s) shall remain valid within 6 months prior to the date of the first assessment submission.
- 3. The document shall clearly indicate the following certification information for validity verification:
 - a. Expiry date; or
 - b. Issuance date; or
 - c. List of certification participants.
- 4. The certification(s) shall be issued by a recognised association.
- 5. Any submitted certificate must fully encompass the entire assessment boundary.
- 6. The Applicant may propose other green building related awards/ certification schemes/ campaigns which are not listed in part (b) of Credit Requirement and each will be considered by its own merits. However, awards/ certification schemes/ campaigns incorporated in other credits e.g. Compliance Method 2 by certificate under Quality Water Supply Scheme for Buildings – Fresh Water (Management System) in WU-04-04a and alternative path by certificate of participation for the building being awarded with a Diamond/ Platinum Award under "Charter on External Lighting in SS-02-01 will not be accepted to avoid double counting.
- 7. The other green building-related awards, certification schemes, or campaigns not listed above may also be considered, provided they are obtained through demonstrable efforts by the Applicant toward environmental or sustainability initiatives. Certificates or awards that are merely achieved by registration and payment, without substantive actions or contributions, will not be accepted.

(a) Complimentary Certification

Supporting Docu		PA	FA
Please provide	softcopies with filename prefix as		
indicated on the le	eftmost column below.		
MAN-01-02a_00	EB submission form for MAN-01-02a	\checkmark	\checkmark
MAN-01-02a_01	Supporting documentation showing: i) The attainment of BEAM Plus NB/ EB (Comprehensive Scheme) certification.		

Submittals

(b)	Environmental	Excellence	Certificate
-----	---------------	------------	-------------

	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
MAN-01-02b_00	EB submission form for MAN-01-02b	\checkmark	\checkmark
MAN-01-02b_01	 Supporting documentation showing: i) The attainment of the certificate(s). ii) The expiration date or issuance date or list of certification participants of the certificate. iii) The certificate(s) to be issued by a recognised association 	V	\checkmark

Remarks

(a) Additional Information

BEAM Plus Project Directory & Statistics. Hong Kong Green Building Council [ONLINE] https://www.hkgbc.org.hk/eng/beam-plus/beam-plus-dirstat/index.jsp [Accessed Jun 2025]

(b) Related Credit Head(s)

2	Management	MAN-02		ESG Disclosure
		MAN	N-02-01	Environmental, Social and Governance (ESG) Disclosure
	Objective			building owner/ management company to have ESG sclose their sustainability performance to the public.
	Credit point(s) Attainable	2		
	Credit Requirement	(a)	ESG Com	nittee
			1 credit po ESG issue	int for establishing a committee to oversee the building s.
		(b)	Policies or	n ESG Issues
				int if the building has adopted at least five (5) different ESG issues.
	Assessment	(a)	ESG Com	nittee
			super	nmittee shall be formed by building-in-charge/ team lead/ visory staff or their representative(s) from the building gement team to oversee building ESG issues.
			2. The C	committee can be building level or corporate level.
				le a list of the committee members indicating their names ositions.
				le a copy of Terms of Reference of the Committee. dential/ sensitive information can be hidden.
			a. M b. M c. M d. E e. F r f. F	s of Reference shall include at least: Membership; Meeting attendance; Meeting frequency; Duties of the Committee; Requirements for the time limit on the issuance of meeting ninutes of the ESG Committee to all committee members; Requirements for the frequency of reporting to the board; Periodical review of Terms of Reference.
		(b)	Policies or	n ESG Issues
				le at least five (5) different policies on ESG issues. At least) policy shall be covered for each aspect.
			a. E b. l c. 1 d. (<u>Socia</u>	onmental Emissions Jse of Resources The Environment and Natural Resources Climate Change I Employment
			b. H c. [Health and Safety Development and Training Labour Standards

- e. Supply Chain Management
- f. Product Responsibility
- g. Anti-corruption
- h. Community Investment

Governance

- a. Board Diversity
- b. Whistleblowing
- 3. Unless the project is a government building or the policies have been publicly disclosed, the policies shall be endorsed by building-in-charge/ team lead from the building management team or the top management of building owner/ building management company.

Submittals

(a) ESG Committee

	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
MAN-02-01a_00	EB submission form for MAN-02-01a	\checkmark	\checkmark
MAN-02-01a_01	A list of the committee members indicating their names and positions		
MAN-02-01a_02	A copy of Terms of Reference of the Committee	\checkmark	

(b) Policies on ESG Issues

•	rovide softcopies with filename prefix as on the leftmost column below.				
MAN-02-01b_00	EB submission form for MAN-02-01b	\checkmark	\checkmark		
MAN-02-01b_01	Endorsement on the five (5) policies on different issues (if applicable)	\checkmark			

Remarks

(a) Additional Information

GRESB, 2023 Real Estate Standard and Reference Guide. [ONLINE] https://documents.gresb.com/generated_files/real_estate/2023/real_ estate/reference_guide/complete.html#management-policies [Accessed Jun 2025]

HKEX, Environmental, Social and Governance Reporting Guide. [ONLINE]

https://en-

rules.hkex.com.hk/sites/default/files/net_file_store/HKEX4476_3841 _VER18584.pdf

[Accessed Jun 2025]

(b) Related Credit Head(s) None

2	Management	MAI	N-02	ESG Disclosure
		MAI	N-02-02	Net-zero Transition Plan
	Objective			e building management to implement systematic nanagement system and achieve net-zero by 2050.
	Credit point(s) Attainable	7		
	Credit Requirement	(a)	Near-term	Decarbonisation Target (Scopes 1 and 2)
				bint for establishing near-term absolute Scopes 1 and 2 sions reduction target.
		(b)	Near-term	Decarbonisation Target (Scope 3)
			1 credit po reduction ta	pint for establishing near-term Scope 3 GHG emissions arget.
		(c)	Near-term	Decarbonisation Target (Validation)
				int if the near-term decarbonisation target is validated by ased Targets initiative (SBTi).
		(d)	Long-term	Decarbonisation Target
			1 credit po	int for establishing long-term decarbonisation target.
		(e)	Long-term	Decarbonisation Target (Validation)
				int if the long-term decarbonisation target is validated by ased Targets initiative (SBTi).
		(f)	Net Zero C	Commitment
			1 credit poi net zero by	int for the building management's commitment to achieving / 2050.
		(g)	Net Zero C	Commitment Disclosure
				int will be awarded if the building owner discloses its net- tion plan and targets to the public.
	Assessment	(a)	Near-term	Decarbonisation Target (Scopes 1 and 2)
			owne	decarbonisation target shall be applied to the building r/ building management company and shall cover the dual building project/each building project in the building lio.
			emiss	de GHG emissions reduction target of scopes 1 and 2 sions in near-term (by 2035 latest). The target can be ng level or corporate level.
			been	is the project is a government building or the target has publicly disclosed, the target shall be endorsed by the top gement of the building owner/ building management

company.

4. It is acceptable to adopt the timeframe for the near-term GHG emissions reduction target for scope 1 and 2 as stipulated in the national policy, based on the assessed building's geographical location. The Applicant shall provide supporting documentation for this. If such documentation is not available, the target year of 2035 latest shall be followed.

(b) Near-term Decarbonisation Target (Scope 3)

- 1. The decarbonisation target shall be applied to the building owner/ building management company and shall cover the individual building project/each building project in the building portfolio.
- 2. Provide GHG emissions reduction target of scope 3 emissions in near-term (by 2035 latest). This target can be applied either at the building level or the corporate level. It is not necessary to address all categories of Scope 3 emissions. The Applicant may select category(ies) that is/ are most relevant to their operations.
- 3. Unless the project is a government building or the target has been publicly disclosed, the target shall be endorsed by the top management of the building owner/ building management company.
- 4. It is acceptable to adopt the timeframe for the near-term GHG emissions reduction target for scope 3 as stipulated in the national policy, based on the assessed building's geographical location. The Applicant shall provide supporting documentation for this. If such documentation is not available, the target year of 2035 latest shall be followed.

(c) Near-term Decarbonisation Target (Validation)

1. Provide supporting to demonstrate the near-term (by 2035 latest) net-zero target is validated by SBTi.

(d) Long-term Decarbonisation Target

- 1. The decarbonisation target shall be applied to the building owner/ building management company and shall cover the individual building project/ each building project in the building portfolio.
- 2. Provide GHG emissions reduction target of scopes 1, 2 and 3 emissions in long-term (by 2050). The target can be building level or corporate level.
- 3. Unless the project is a government building or the target has been publicly disclosed, the target shall be endorsed by the top management of the building owner/ building management company.
- 4. It is acceptable to adopt the timeframe for the long-term GHG emissions reduction target for scopes 1, 2 and 3 as stipulated in the national policy, based on the assessed building's geographical location. The Applicant shall provide supporting documentation for this. If such documentation is not available, the target year of 2050 shall be followed.

(e) Long-term Decarbonisation Target (Validation)

1. Provide supporting to demonstrate the long-term (by 2050) decarbonisation target is validated by SBTi.

(f) Net Zero Commitment

- 1. Provide a building management's commitment statement for the building to achieving net zero by 2050.
- 2. Unless the project is a government building or the statement has been publicly disclosed, the statement shall be endorsed by the top management of the building owner/ building management company.
- 3. It is acceptable to adopt the timeframe for the net zero target as stipulated in the national policy, based on the assessed building's geographical location. The Applicant shall provide supporting documentation for this. If such documentation is not available, the target year of 2050 shall be followed.

(g) Net Zero Commitment Disclosure

1. Provide evidence showing net-zero transition plan and targets are disclosed to the public.

Submittals

(a) Near-term Decarbonisation Target (Scopes 1 and 2)

Supporting Docu	nents	PA	FA
Please provide s	softcopies with filename prefix as		
indicated on the let	ftmost column below.		
MAN-02-02a_00	EB submission form for MAN-02-02a	\checkmark	\checkmark
MAN-02-02a_01	Reduction targets for Scope 1 and		
	Scope 2 emissions (with	\checkmark	\checkmark
	endorsement if applicable)		
MAN-02-02a_02	Evidence showing timeframe for the		
	near-term GHG emissions reduction		
	target for scopes 1 and 2 as	2	
	stipulated in the national policy,	v	v
	based on the assessed building's		
	geographical location (if applicable)		

(b) Near-term Decarbonisation Target (Scope 3)

Supporting Docur	nents	PA	FA
Please provide s	softcopies with filename prefix as		
indicated on the let	ftmost column below.		
MAN-02-02b_00	EB submission form for MAN-02-02b		
MAN-02-02b_01	Reduction target for Scope 3		
	emissions (with endorsement if	\checkmark	\checkmark
	applicable)		
MAN-02-02b_02	Evidence showing timeframe for the		
	near-term GHG emissions reduction		
	target for scope 3 as stipulated in the		\checkmark
	national policy, based on the	N	N
	assessed building's geographical		
	location (if applicable)		

(c) Near-term Decarbonisation Target (Validation)

Supporting Docu	nents	PA	FA
Please provide s	softcopies with filename prefix as		
indicated on the let	ftmost column below.		
MAN-02-02c_00	EB submission form for MAN-02-02c	\checkmark	
MAN-02-02c_01	Records showing that the target has		
	been submitted to SBTi for review.	v	-
MAN-02-02c_02	Records showing that the target has	_	
	been validated by SBTi.	-	V

(d) Long-term Decarbonisation Target

Supporting Docur	nents	PA	FA
Please provide s	softcopies with filename prefix as		
indicated on the let	ftmost column below.		
MAN-02-02d_00	EB submission form for MAN-02-02d	\checkmark	\checkmark
MAN-02-02d_01	Long-term decarbonisation target		
	(with endorsement if applicable)	v	v
MAN-02-02d_02	Evidence showing timeframe for the		
	long-term decarbonisation target as		
	stipulated in the national policy,	\checkmark	\checkmark
	based on the assessed building's		
	geographical location (if applicable)		

(e) Long-term Decarbonisation Target (Validation)

	ments softcopies with filename prefix as ftmost column below.	PA	FA
MAN-02-02e_00	EB submission form for MAN-02-02e	\checkmark	
MAN-02-02e_01	Records showing that the target has been submitted to SBTi for review.		-
MAN-02-02e_02	Records showing that the target has been validated by SBTi.	-	

(f) Net Zero Commitment

•	ments softcopies with filename prefix as ftmost column below.	PA	FA
MAN-02-02f_00	EB submission form for MAN-02-02f		
MAN-02-02f_01	Net zero target (with endorsement if applicable)		
MAN-02-02f_02	Evidence showing timeframe for the net zero target as stipulated in the national policy, based on the assessed building's geographical location (if applicable)	\checkmark	

(g) Net Zero Commitment Disclosure

•	softcopies with filename prefix as	ΡΑ	FA
indicated on the let	ftmost column below.		
MAN-02-02g_00	EB submission form for MAN-02-02g	\checkmark	
MAN-02-02g_01	Net-zero transition plan and targets	\checkmark	
MAN-02-02g_02	Evidence showing net-zero transition plan and targets are disclosed to the public	-	

Remarks

(a) Additional Information

Science-based targets, corporate net-zero tool. [ONLINE] https://sciencebasedtargets.org/resources/?tab=develop [Accessed Jun 2025]

(b) Related Credit Head(s)

2	Management	MAN	N-02	ESG Disclosure
		MAN	N-02-03	Resilience Strategy
	Objective	relat	ted risks	s consideration of an asset's exposure to a range of climate- s, such as identifying flood risks and implementing mitigation where required.
	Credit point(s) Attainable	3		
	Credit Requirement	(a)	Climat	e-related Physical Risks and Opportunities
			opport	lit point for detailing the climate related physical risks and unities identified, the methodology used for the assessment e key metrics where applicable.
		(b)	Transi	tion Risks and Opportunities
			identifi metrics	dit point for detailing the transition risks and opportunities ed, the methodology used for the assessment and the key s where applicable (Metrics shall include energy, water, land id waste management where relevant and applicable).
		(c)	Evalua	ation of Climate Resilience
				lit point for conducting climate-related scenario analysis to te their climate resilience in the face of extreme weather
	Assessment	(a)	Climat	te Related Physical Risks and Opportunities
			a: Ir pi	conduct a project specific climate change risk and adaptation ssessment, aligned to the principles outlined by the international Sustainability Standards Board (ISSB), which ublished the International Financial Reporting Standards FRS) S2 Climate-related Disclosures.
			w ri:	he assessment shall follow the requirement under IFRS S2, rhich distinguishes climate-related risks in respect to physical sks (event-driven or acute risks; longer-term shifts or chronic sks).
				vent-driven or acute risks shall refer to storms, floods, drought r heatwaves, which are increasing in severity and frequency.
			pi re	onger-term shifts or chronic risks shall refer to changes in recipitation and temperature which could lead to sea level rise, educed water availability, biodiversity loss and changes in soil roductivity.
			re be m	Inless the project is a government building or the assessment eport has been publicly disclosed, the assessment report shall e endorsed by building-in-charge/ team lead of building nanagement team or the top management of building owner/ uilding management company.

(b) Transition Risks and Opportunities

- 1. Conduct a project specific climate change risk and adaptation assessment, aligned to the principles outlined by the International Sustainability Standards Board (ISSB), which published the International Financial Reporting Standards (IFRS) S2 Climate-related Disclosures.
- 2. The assessment shall follow the requirement under IFRS S2, which distinguishes climate-related risks in respect to Transition risks (those associated with moving to a lower-carbon economy).
- 3. Transition Risks shall refer to the risks that arise from efforts to transition to a lower-carbon economy. Transition risks include policy, legal, technological, market and reputational risks.
- 4. Unless the project is a government building or the assessment report has been publicly disclosed, the assessment report shall be endorsed by building-in-charge/ team lead of building management team or the top management of building owner/ building management company.

(c) Evaluation of Climate Resilience

- 1. Conduct a project specific climate change risk and adaptation assessment, aligned to the principles outlined by the International Sustainability Standards Board (ISSB), which published the International Financial Reporting Standards (IFRS) S2 Climate-related Disclosures.
- The assessment shall follow the requirement under IFRS S2, which distinguishes climate-related risks in respect to physical risks (event-driven or acute risks; longer-term shifts or chronic risks).
- 3. The climate-related scenario analysis shall follow the previously adopted Taskforce for Climate Related Financial Disclosures (TCFD) guidance that sets out types of scenario analysis, including quantitative, partially quantitative and qualitative.
- 4. Unless the project is a government building or the assessment report has been publicly disclosed, the assessment report shall be endorsed by building-in-charge/ team lead of building management team or the top management of building owner/ building management company.

Submittals

(a) Climate Related Physical Risks and Opportunities

Supporting Docu	uments	PA	FA
Please provide	softcopies with filename prefix as		
indicated on the le	eftmost column below.		
MAN-02-03a_00	EB submission form for MAN-02-03a	\checkmark	\checkmark
MAN-02-03a_01	An assessment report for climate related physical risks and opportunities (with endorsement if applicable)	-	

(b) Transition Risks and Opportunities

Supporting Docu	iments	PA	FA
Please provide	softcopies with filename prefix as		
indicated on the le	eftmost column below.		
MAN-02-03b_00	EB submission form for MAN-02-03b	\checkmark	
MAN-02-03b_01	An assessment report for transition		
	risks and opportunities (with	-	\checkmark
	endorsement if applicable)		

(c) Evaluation of Climate Resilience

Supporting Docu	PA	FA	
Please provide	softcopies with filename prefix as		
indicated on the le	ftmost column below.		
MAN-02-03c_00	EB submission form for MAN-02-03c	\checkmark	\checkmark
MAN-02-03c_01	An assessment report for climate		
	resilience (with endorsement if	-	\checkmark
	applicable)		

Remarks

(a) Additional Information

The IFRS Foundation, IFRS S2 Climate-related Disclosures. [ONLINE] https://www.ifrs.org/issued-standards/ifrs-sustainability-standardsnavigator/ifrs-s2-climate-relateddisclosures.html/content/dam/ifrs/publications/html-standardsissb/53nglish/2023/issued/issbs2/ [Accessed Jun 2025]

(b) Related Credit Head(s)

2	Management	MAN-03		Operation and Maintenance
		MAN	1-03-0 ′	01 Staff Training and Resources
	Objective	Man	ageme	ne staff training and technical resources are adequate for the nent, Operation and Maintenance (MO&M) of the individual roject/each building project in the building portfolio.
	Credit point(s) Attainable	3		
	Credit Requirement	(a)	BEAN	M Accredited Personnel
				edit point for building-in-charge/ team lead has accredited with M Pro qualification for EB v3.0.
		(b)	Profe	essional Qualified Personnel
				edit point if the building-in-charge/ team lead under (a) above s a professional qualification for the facilities management sector.
		(c)	Staff	f Training
			respo	edit point for providing adequate and periodic training for the staff onsible for the MO&M of the individual building project/ each ling project in the building portfolio.
	Assessment	(a)	BEAN	M Accredited Personnel
			i	Provide BEAM Professional certificate to show that building-in- charge/ team lead of building management team of the building is a BEAM Professional with EB v3.0 credential at the time of first assessment submission;
				Organisation chart to demonstrate the line of authority of the building-in-charge/ team lead of building management team.
		(b)	Profe	essional Qualified Personnel
			 	Provide an undertaking letter from the top management of building owner/ building management company confirming that the person or persons identified under (a) above has been assigned as the building-in-charge/ team lead of the building within 12 months prior to the time of first assessment submission. License number of building-in-charge/ team lead from the building management team of the building shall be indicated in the undertaking letter.
			; (The professional qualification shall be issued by a recognised association. For example, a property management practitioner (Tier 1) license under the Property Management Services Ordinance (Cap.626).
			(1 (Other professional qualifications not listed above may also be considered, provided they enhance professional standards in facilities management to optimise property assets. However, qualifications obtained solely through registration and payment, without substantive contributions or actions, will not be accepted.

- 4. Provide supporting documentation showing the attainment of the professional qualification.
- 5. The professional qualification shall be valid at the at the time of first assessment submission.
- 6. The document shall clearly indicate the following professional qualification information for validity verification:
 - a. Expiry date; or
 - b. Issuance date; or
 - c. List of certification participants.
- 7. Organisation chart to demonstrate the line of authority of the building-in-charge/ team lead of building management team.

(c) Staff Training

- 1. Provide summary table of training courses and hours for the building-in-charge/ team lead of building management team and other staff and corresponding training records for the staff members responsible for MO&M within 12 months prior to the time of first assessment submission.
- 2. Organisation chart showing the name of the building-in-charge/ team lead of building management team and other staff.
- The topics of the training are not regulated but the training shall be related to MO&M or policies on ESG issues under credit head MAN-02-01b. The minimum training requirements are 15 hours and 6 hours per year for the building-in-charge and other staff respectively.
- 4. The training courses may be conducted internally or by external providers.
- 5. Training requirements are tied to the job position, not to the specific individual who holds it.
- 6. Only staff members of the Building Management Company listed in the organisation chart shall be included in the assessment, while staff members of sub-contractors shall be excluded from the assessment.

(a) **BEAM Accredited Personnel**

Supporting Docu	ments	PA	FA
Please provide	softcopies with filename prefix as		
indicated on the le	eftmost column below.		
MAN-03-01a_00	EB submission form for MAN-03-01a	\checkmark	
MAN-03-01a_01	Undertaking letter from the top		
	management of building owner/	\checkmark	\checkmark
	building management company		
MAN-03-01a_02	BEAM Professional certificate	\checkmark	\checkmark
MAN-03-01a_03	Organisation chart		

Submittals

(b) Professional Qualified Personnel

Supporting Docu	iments	PA	FA
Please provide	softcopies with filename prefix as		
indicated on the le	eftmost column below.		
MAN-03-01b_00	EB submission form for MAN-03-01b	\checkmark	\checkmark
MAN-03-01b_01	Undertaking letter from the top		
	management of building owner/	\checkmark	\checkmark
	building management company		
MAN-03-01b_02	Supporting documentation showing:		
	i) The attainment of the professional		
	qualification.		
	ii) The expiration date or issuance	,	,
	date or list of certification		\checkmark
	participants of the professional		
	qualification.		
	iii) The professional qualification was		
	issued by a recognised association		
MAN-03-01b_03	Organisation chart	\checkmark	\checkmark

(c) Staff Training

Supporting Docu	PA	FA			
Please provide	softcopies with filename prefix as				
indicated on the le	aftmost column below.				
MAN-03-01c_00	N-03-01c_00 EB submission form for MAN-03-01c				
MAN-03-01c_01	Summary table and corresponding	N	al		
	training records	v	v		
MAN-03-01c_02	Organisation chart				

Remarks

(a) Additional Information

Property Management Services Authority, register of licensees (online version).

[ONLINE]

https://eapplication.pmsa.org.hk/registers/#m-practitioners [Accessed Jun 2025]

Hong Kong Green Building Council publishes the latest registers of BEAM Professionals and BEAM Affiliates on its website. [ONLINE] https://app.powerbi.com/view?r=eyJrljoiYjUxMDUwMWMtNWIzOS0 0YmQxLTgxYTYtMDZkMjczNDE1N2ZhIiwidCl6ImQwMTUyOGY5L TQ3NDItNGJjYS05MDVmLWU3ZjIxZTJhNmM5MiIsImMiOjEwfQ%3 D%3D

[Accessed Jun 2025]

(b) Related Credit Head(s)

2	Management	MAN-03		Operation and Maintenance
		MAN	N-03-04	Smart Facility Management
	Objective			adoption of best practices and innovative technologies for nprovement in E&M asset management.
	Credit point(s) Attainable	6		
	Credit Requirement	(a)	Good F	Practices for Operation and Maintenance Service
			applica Operati practice Handbo	credit point(s) for implementing at least five (5)/ ten (10) ble good practices as stipulated in Best Practices for ion and Maintenance Service published by EMSD. These es can be selected from Best Practices Booklets and poks on HVAC Installations, Electrical Installations or Lift and for Installations.
		(b)	Best P	ractices for Operation and Maintenance Service
			applica and Ma be sele	credit point(s) for implementing at least five (5)/ ten (10) ble best practices as stipulated in Best Practices for Operation aintenance Service published by EMSD. These practices can cted from Best Practices Booklets and Handbooks on HVAC tions, Electrical Installations or Lift and Escalator Installations.
		(c)	Digitali	sed Operation
			1 credit operati	point for adopting digitalised facility management system for on.
		(d)	Digitali	sed Maintenance
			1 credit mainter	point for adopting digitalised facility management system for nance.
	Assessment	(a)	Good F	Practices for Operation and Maintenance Service
			sti	ovide a summary detailing applicable good practices as pulated in Best Practices for Operation and Maintenance ervice of HVAC, Electrical and Lift and Escalator installations.
			ар	here best practices are implemented, each best practice plied will be considered as meeting the requirement for one) good practice under this section.
				e same best practice may be counted towards both the best actices and good practices requirements.
		(b)	Best P	ractices for Operation and Maintenance Service
			sti	ovide a summary detailing applicable best practices as pulated in Best Practices for Operation and Maintenance ervice of HVAC, Electrical and Lift and Escalator installations.
				e same best practice may be counted towards both the best actices and good practices requirements.

(c) Digitalised Operation

- 1. Provide screenshots of the digitalised facility management system, which covers the following:
 - a. Inventory & supply management;
 - b. Work order management;
 - c. Asset tracking;
 - d. Capital planning & forecasting;
 - e. Maintenance requests;
 - f. Schedule requests for preventive maintenance;
 - g. Work order management;
 - h. Inspection and maintenance records management.
- 2. Digitalised facility management system shall be a single platform with the following features as a minimum:
 - a. Utilisation of information from sensory devices (e.g. leakage detection);
 - b. Centralised the management and tracking of all records. Building management team can plan, control, supervise technical staff, report issues, schedule maintenance, and assign work orders via mobile app or on a desktop.

(d) Digitalised Maintenance

- 1. Provide screenshots of the digitalised facility management system, which covers the following:
 - a. Maintenance requests;
 - b. Schedule requests for preventive maintenance;
 - c. Work order management;
 - d. Inspection and maintenance records management.
- 2. Digitalised facility management system shall be a single platform with the following features as a minimum:
 - a. Utilisation of information from sensory devices (e.g. leakage detection);
 - b. Centralised the management and tracking of all records. Building management team can plan, control, supervise technical staff, report issues, schedule maintenance, and assign work orders via mobile app or on a desktop.

Submittals

(a) Good Practices for Operation and Maintenance Service

Supporting Docu	ΡΑ	FA	
•	softcopies with filename prefix as aftmost column below.		
MAN-03-04a_00	EB submission form for MAN-03-04a		
MAN-03-04a_01	Summary table listing the applicable good/ best practices, and their locations (if applicable)		
MAN-03-04a_02	Drawings showing the practices (if applicable)		
MAN-03-04a_03	Report showing justifications and details for each practice		

(b) Best Practices for Operation and Maintenance Service

•	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
MAN-03-04b_00	EB submission form for MAN-03-04b	\checkmark	
MAN-03-04b_01	Summary table listing the applicable best practices, and their locations (if applicable)		
MAN-03-04b_02	Drawings showing the practices (if applicable)	\checkmark	
MAN-03-04b_03	Report showing justifications and details for each practice	\checkmark	

(c) Digitalised Operation

•	i ments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
MAN-03-04c_00	EB submission form for MAN-03-04c	\checkmark	
MAN-03-04c_01	Screenshots of the digitalised facility management system for digitalised operation	\checkmark	

(d) Digitalised Maintenance

Supporting Docu	PA	FA	
Please provide	softcopies with filename prefix as		
indicated on the le	eftmost column below.		
MAN-03-04d_00	EB submission form for MAN-03-04d		
MAN-03-04d_01	Screenshots of the digitalised facility	I	I
	management system for digitalised	\checkmark	\checkmark
	maintenance		

Remarks

(a) Additional Information

Electrical and Mechanical Services Department – Best Practices for Operation and Maintenance Service [ONLINE] https://bestpractice.emsd.gov.hk/en/ [Accessed Jun 2025]

(b) Related Credit Head(s)

2	Management	MAN-03		Operation and Maintenance
		MAN	N-03-05	BIM Integration
	Objective			e of BIM for asset management and facility management en and intelligent building approach.
	Credit point(s) Attainable	3		
	Credit Requirement	(a)	Maintenan	ce of BIM Model
				int for maintaining BIM model including as-built fixtures, d equipment data.
		(b)	Use of BIN	I Model (Asset Management)
			1 credit poi	nt for using BIM model for asset management.
		(c)	Use of BIN	1 Model (Facility Management)
			1 credit poi	nt for using BIM model for facility management.
	Assessment	(a)	Maintenan	ce of BIM Model
		1.	to demonst into the mo a. Fixtur b. Finish	es;
		(b)	Use of BIN	I Model (Asset Management)
		1.	benefit by intelligent b a. Drawi b. As-Bu c. Mainte d. Space	narrative that demonstrate the quantified environmental using BIM for asset management to support green and puilding approach: ng Generation; wilt Model and Asset Information Model; enance Scheduling; Management and Tracking; Management.
		(c)	Use of BIN	1 Model (Facility Management)
		1.	benefit by intelligent b a. Drawi b. As-Bu	narrative that demonstrate the quantified environmental using BIM for facility management to support green and puilding approach: ng Generation; iilt Model and Asset Information Model; enance Scheduling;

- Space Management and Tracking; Asset Management. d.
- e.

Submittals

(a) Maintenance of BIM Model

Supporting Docu	Supporting Documents						
Please provide	softcopies with filename prefix as						
indicated on the le	eftmost column below.						
MAN-03-05a_00	EB submission form for MAN-03-05a						
MAN-03-05a_01	Screenshots of the asset information/		al				
	properties of BIM model	N	N				

(b) Use of BIM Model (Asset Management)

•	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
MAN-03-05b_00	EB submission form for MAN-03-05b	\checkmark	
MAN-03-05b_01	A narrative, with calculation of environmental benefit and relevant supporting information, for the use of BIM for asset management	\checkmark	

(c) Use of BIM Model (Facility Management)

Supporting Docu	PA	FA	
Please provide	softcopies with filename prefix as		
indicated on the le	eftmost column below.		
MAN-03-05c_00	EB submission form for MAN-03-05c	\checkmark	
MAN-03-05c_01	A narrative, with calculation of		
	environmental benefit and relevant		
	supporting information, for the use of	v	N
	BIM for facility management		

Remarks

(a) Additional Information

Electrical and Mechanical Services Department – Building Information Modelling – Asset Management (BIM-AM) [ONLINE] https://www.emsd.gov.hk/en/engineering_services/project_manage ment_consultancy/highlights_of_work/bim_am/ [Accessed Jun 2025]

The Hong Kong Construction Industry Council – CIC BIM Standards. [ONLINE].

https://www.bim.cic.hk/en/resources/publications?cate=3&keyword= [Accessed Jun 2025]

The American Institute of Architects (AIA) – The American G202[™] – 2013, Project Building Information Modelling Protocol Form [ONLINE] https://contractdocs.aia.org/PreviewFiles/Preview_G202-2013%200mniClass.pdf [Accessed Jun 2025]

(b) Related Credit Head(s)

2	Management	MAN-04		Green and Healthy Management
		MAN	N-04-01	Green Lease
	Objective	Encourage land green goals.		flord-tenant collaboration in agreeing and implementing
	Credit point(s) Attainable	4		
	Credit Requirement	(a)	Green Lea	se Incentive
			1 credit po the green l	int for including measurable KPIs or sustainability tasks in ease.
		(b)	Green Lea	ise Coverage
				dit point(s) will be awarded if at least 5%/ 10%/ 15% of as implement a green lease.
	Assessment	(a)	Green Lea	se Incentive
			lease under buildi susta	de a sample of typical tenancy agreement with green , at the time of first assessment submission and an taking letter from the top management of building owner/ ng management company, specifying measurable KPIs or inability tasks. Confidential/ sensitive information on the cy agreement is not required and could be excluded.
			owne obliga occup conse	n lease shall incorporate clauses whereby the building r and the tenant undertake specific responsibilities/ ations with regards to the sustainable operation/ pation of a property. For example, energy efficiency, water ervation, waste reduction/ management and sustainable ation and indoor air quality management.
		(b)	Green Lea	ise Coverage
			1. Provid equat	de calculation of green lease coverage (%) by below ion:
		Gi	reen Lease Co	overage (%) = $\left(\frac{\sum \text{Leased Area With Green Lease}}{\text{Total Leased Area}}\right) \times 100\%$
				leased area at the time of first assessment submission be included in the calculation.

3. Provide summary of leased area at the time of first assessment submission.

Submittals

(a) Green Lease Incentive

Supporting Docu Please provide	i ments softcopies with filename prefix as	PA	FA
indicated on the le	eftmost column below.		
MAN-04-01a_00	EB submission form for MAN-04-01a	\checkmark	
MAN-04-01a_01	A sample of typical tenancy agreement with green lease and an undertaking letter from the top management of building owner/ building management company	\checkmark	

(b) Green Lease Coverage

Supporting Docu	PA	FA	
Please provide so	ftcopies with filename prefix as		
indicated on the le	eftmost column below.		
MAN-04-01b_00	EB submission form for MAN-04-01b	\checkmark	
MAN-04-01b_01	Calculation of green lease coverage	\checkmark	
MAN-04-01b_02	Summary of leased area		

Remarks

(a) Additional Information

Hong Kong Green building Council Limited – Green Tenancy Driver for Office Buildings [ONLINE] https://www.hkgbc.org.hk/eng/engagement/guidebooks/greentenancy-driver/index.jsp [Accessed Jun 2025]

(b) Related Credit Head(s)

2	Management	MA	N-04	Green and Healthy Management
		MAN	N-04-05	Tenant Engagement Programme(s)
	Objective			building and its tenants to cooperate in good faith to ability performance.
	Credit point(s) Attainable	5		
	Credit Requirement	(a)	Capacity I	Building Programme(s)
				pint for organising capacity building programme(s) to the at least 10% of leased area.
		(b)	Carbon Au	udit to Tenants
				int for conducting carbon audit for tenants covering at least he leased area to help identify opportunities for sation.
		(c)	1 credit po	isation Targets for Tenants oint for assisting tenants in establishing decarbonisation sed on the findings of the carbon audit.
		(d)	Award for	Recognition
				bint for organising award for recognition of excellence in lity performance of tenants.
		(e)	Carbon Re	elated Pledge
				oint for implementing sustainability related pledge, with le KPIs or sustainability tasks for at least 10% of leased
	Assessment	(a)	Capacity I	Building Programme(s)
			progra	de a narrative outlining the details of capacity building amme(s), including name, date, content, attendance d of tenant and record photographs.
				content of capacity building programme(s) shall be related enhancement of tenants' sustainability capabilities.
				apacity building programme(s) shall be organised within 6 ns prior to the time of first assessment submission.
				de the calculation of capacity building programme(s) age (%) by using the equation below:
		Сар = (acity Buildin ∑Leased Arc	ng Programme(s) Coverage (%) ea Taking Part in Capacity Building Programme (s) Total Leased Area
			area i	included in the numerator of the above equation, a leased must have at least three (3) representatives participate in apacity building programme(s).

- 6. Provide a summary of leased area within the past 12 months at the time of first assessment submission.
- 7. Same tenant(s) joining different capacity building programmes cannot be double counted.

(b) Carbon Audit to Tenants

1. Provide the calculation of carbon audit coverage (%) using the equation below:

Carbon Audit Coverage (%) = $\left(\frac{\sum \text{Leased Area With Carbon Audit}}{\text{Total Leased Area}}\right) \times 100\%$

- 2. Provide a summary of leased area within the past 12 months at the time of first assessment submission.
- 3. Provide a copy of carbon audit report in accordance with the Greenhouse Gas Protocol.
- 4. The carbon audit report shall meet the following requirements:
 - a. Conducted within the past 12 months at the time of first assessment submission;
 - b. Endorsed by a certified carbon auditor;
 - c. Emissions in Scopes 1 and 2 are included;
 - d. Water (if applicable) and paper use are included.

(c) Decarbonisation Targets for Tenants

1. Provide carbon related reduction percentage target of Scopes 1 and 2 emissions, water (if applicable) and paper use in nearterm (by 2035 latest) and long-term (by 2050).

(d) Award for Recognition

- 1. Provide a detailed narrative on the award that recognises excellence in sustainability performance among tenants, including the name of the award, the date it is awarded, and an explanation of how this recognition can enhance the sustainability performance of the tenants.
- 2. The content of award for recognition shall be related to the enhancement of tenants' sustainability capabilities.
- 3. The award for recognition shall be organised within 12 months prior to the time of first assessment submission.

(e) Carbon Related Pledge

- 1. Provide a narrative outlining the details of sustainability related pledge, including name, date, measurable KPIs or sustainability tasks and a list of signatory record.
- 2. The pledge shall be organised within 12 months prior to the time of first assessment submission.
- 3. Provide the calculation of pledge coverage (%) using the equation below:

Submittals

Pledge Coverage (%) =
$$\left(\frac{\sum \text{Leased Area Signing The Pledge}}{\text{Total Leased Area}}\right) \times 100\%$$

4. Provide a summary of leased area within the past 12 months at the time of first assessment submission.

(a) Capacity Building Programme(s)

Supporting Docu	PA	FA	
Please provide	softcopies with filename prefix as		
indicated on the le	aftmost column below.		
MAN-04-05a_00	EB submission form for MAN-04-05a	\checkmark	
MAN-04-05a_01	A narrative outlining the details of		al
	capacity building programme(s)	v	v
MAN-04-05a_02	Calculation of capacity building	_	N
	programme(s) coverage	-	v
MAN-04-05a_03	Summary of leased area within the		
	past 12 months at the time of first	-	
	assessment submission		

(b) Carbon Audit to Tenants

•	m ents softcopies with filename prefix as aftmost column below.	PA	FA
MAN-04-05b_00	EB submission form for MAN-04-05b		
MAN-04-05b_01	Calculation of carbon audit coverage	-	
MAN-04-05b_02	Summary of leased area within the past 12 months at the time of first assessment submission	-	\checkmark
MAN-04-05b_03	A copy of carbon audit report		

(c) Decarbonisation Targets for Tenants

Supporting Documents PA							
Please provide	softcopies with filename prefix as						
indicated on the le	eftmost column below.						
MAN-04-05c_00	EB submission form for MAN-04-05c	\checkmark					
MAN-04-05c_01	Endorsed carbon related reduction						
	percentage target of Scopes 1 and 2						
	emissions in near-term (by 2035) and						
	long-term (by 2050)						

(d) Award for Recognition

Supporting Docu	PA	FA	
Please provide	softcopies with filename prefix as		
indicated on the le	eftmost column below.		
MAN-04-05d_00	EB submission form for MAN-04-05d	\checkmark	\checkmark
MAN-04-05d_01	A narrative outlining the details of		
	award for recognition of excellence in	\checkmark	\checkmark
	sustainability performance of tenant		

(e) Carbon Related Pledge

•	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
MAN-04-05e_00	EB submission form for MAN-04-05e	\checkmark	
MAN-04-05e_01	A narrative outlining the details of sustainability related pledge		
MAN-04-05e_02	Calculation of pledge coverage	-	
MAN-04-05e_03	Summary of leased area within the past 12 months at the time of first assessment submission	-	

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

3. Sustainable Site Site Site location is important with regard to adequacy of local amenities and public transport provisions, reduction of travel needs and reliance on private vehicles. There is often an opportunity to enhance the quality of buildings through more thoughtful 'greening' and other features. The impacts on neighbouring developments and various discharges and emissions from the site can be significant throughout a building's lifetime.

The following Credit Heads are not applicable under EB v3.0:

Credit Code	Credit Head
SS-01-02	Neighbourhood Amenities
SS-01-03	Building Design for Sustainable Urbanism
SS-01-04	Neighbourhood Daylight Access
SS-03-02	Immediate Neighbourhood Wind Environment
SS-03-03	Outdoor Thermal Comfort
SS-04-01	Stormwater Management

3	Sustainable Site	SS-	S-01 Pollution Prevention and Control		Illution Prevention and Control	
		SS-	01-01		Pr	omotion of Public Transportation
	Objective	Pro	note	public	c tran	sportation.
	Credit point(s) Attainable	1				
	Credit Requirement					the availability of convenient pedestrian access to ransport.
		Alte	ernati	ively,		
				oint fo a devo		nieving Accessibility Index of 15 or more for all building nent.
	Assessment	1.	sho	nce such as screen capture of a web-based maps unencumbered walking distance is within 500m the building main entrance to the nearby mass transit		
		2.				ncludes underground subway systems, railways, light nd trams.
		Alte	ernati	ively,		
			1.	rout entra	es wi ance	the distances shown alongside unhampered walking thin a walking distance of 1,000m from the site main (s) to each public transport stop or the main entrance of ion in vicinity on an A3-sized scaled drawing.
			2.	Prov	/ide e	evidence of service frequencies of the public transport.
			3.		ulate elopm	the Accessibility Index (AI) for All building types of a nent.
				a.		service frequency data at peak periods for the ulation of waiting time.
					i.	The Applicant shall propose any hour on a weekday as the "peak hour" for the calculation of Al. In view of different building natures (e.g. non-residential/ non- commercial building types such as stadium, museum, etc.), the "peak hour" may be considered as any hour on a weekend with justification. The service frequency data of the identified public transport shall be selected at the same "peak hour".
					ii.	Considering the same proposed "peak hour', the shortest headway (in minutes) from service frequency data could be adopted for each of the identified public transports. For example, given that the service frequency of public transport is 15-20 minutes within the "peak hour", the lower bound (i.e. 15 minutes) could be adopted in the AI calculation.
				b.	Ado	pt a walking speed of 80m per minute for the calculation

of walk time.

- 4. For a site served by dedicated shuttle service vehicles for the development and to be considered under the AI method, provide the following:
 - a. Summary of services provisions by the service provider confirming below shall be notified to building users:
 - i. Routes and stops of the shuttle services providing connection links to the public transport,
 - ii. Capacity of the shuttle service vehicles,
 - iii. Locations of the shuttle service drop-off/ pick-up points, and
 - iv. Operating frequency of the services.
 - b. Justification of the adequacy of the service.
 - c. An undertaking letter from the top management of building owner/ building management company for the provision of the shuttle service for a minimum of 5 years. A minimum of 1 year rolling contract in place with the service provider shall be submitted.

Supporting Doc	uments	PA	FA
Please provide softcopies with filename prefix as indicated on the leftmost column below.			
SS-01-01_00	EB submission form for SS-01-01	\checkmark	\checkmark
SS-01-01_01	Summary report of public transport	\checkmark	
SS-01-01_02	Scaled drawing on an A3-sized sheet		
	indicating the distances alongside		
	unhampered walking routes from site		
	entrance to stops/ stations of public		
	transport services		
Alternative path by demonstration with Accessibility Index			
SS-01-01_03	Evidence of service frequencies of	\checkmark	
	public transport at the peak hour		
SS-01-01_04	Calculation for Accessibility Index	\checkmark	
SS-01-01_05	Scaled building layout plans for drop-	\checkmark	
	off/ pick-up point(s) of shuttle service		
	vehicles		
SS-01-01_06	Summary of shuttle service provision	\checkmark	
SS-01-01_07	Justification for the adequacy of	\checkmark	
	services		
SS-01-01_08	An undertaking letter from the top	\checkmark	
	management of building owner/		
	building management company for		
	the provision of the shuttle service for		
	a minimum of 5 years		
SS-01-01_09	Rolling contract (for a minimum of 1	\checkmark	\checkmark
	year) in place with the service		
	provider		

Submittals

Remarks

(a) Additional Information

Public Transport Accessibility Levels, Transport for London [ONLINE] https://data.london.gov.uk/dataset/public-transport-accessibilitylevels [Accessed Jun 2025]

(b) Related Credit Head(s)

3	Sustainable Site	SS-01		Pollution Prevention and Control
		SS-01-05	5	Noise Control for Building Equipment
	Objective	Impleme affecting		ures to minimise noise from building services equipment burs.
	Credit point(s) Attainable	1		
	Credit Requirement	façade of with the Assessm	f the pot criteria nent of N	or demonstrating the level of the intruding noise at the ential Noise Sensitive Receivers (NSRs) is in compliance a stipulated in the Technical Memorandum for the Joise from Places Other than Domestic Premises, Public function Sites.
	Assessment		nduct a morandu	noise assessment in accordance with the Technical um.
		pote	ential (if	te the intruding noise level at the façade of existing and applicable) NSRs comply with the criteria stipulated in the femorandum.
		арр	ropriate	oise prediction/ assessment report with detailed analysis, calculations and/ or measurements to demonstrate . The report shall address the following criteria:
		3.1.	noise suppo	ground Noise Measurement: Provide a background measurement report with detailed monitoring records to rt the Acceptable Noise Level (ANL) requirements of ne, evening time and nighttime.
		3.2.	NSRs	fication of NSRs: Identify both the existing and potential within 300 meters of the project site, measured from the st point of the assessment boundary.
			3.2.1.	Noise sensitive receivers shall follow the Technical Memorandum.
			3.2.2.	Only buildings external to the site boundary are assessed.
			3.2.3.	On the basis of promoting good environmental design assessment, the statutory plans of Town Planning Ordinance shall be examined to identify the potential NSRs based on the planned land use.
			3.2.4.	For vacant lands with no verified use, it shall be assumed that it will become an NSR.
		3.3.	the faç be d	esment location: Assessment shall be made at 1m from cade on the noise sensitive receiver. The compliance could emonstrated by calculations, measurements, or a nation of both.
		3.4.	measu	urement Methods: If on-site measurement is opted for, ire the intruding noise directly at the nearest location(s) of presentative noise sensitive receivers.

- 3.4.1. If access to the NSRs is not available, use one of the following:
 - (1) Measure at a nearby location with calculation adjustment.
 - (2) Measure the sound power level at the intruding noise source, follow by a prediction of the noise levels at the NSRs using standard noise propagation equation.
- 3.5. **Noise Sources:** All major noise generating equipment in place other than domestic units in a residential building of public/ private housing development and government quarters shall be assessed.
 - 3.5.1. For areas served by central air-conditioning and ventilation systems, the major noise sources include air-cooled chillers, water cooling towers, air-cooled heat pumps, and axial and centrifugal fans (≥2.5kW each).
 - 3.5.2. For areas served by de-centralised air-conditioning and ventilation systems, the major noise sources include outdoor air-conditioning units (with rated cooling capacity >7.1kW) and ventilating fans (i.e. axial and centrifugal fans ≥2.5kW each).
 - 3.5.3. Only equipment provided by the developer/ owner is assessed.
 - 3.5.4. Noise from domestic units (e.g., residential buildings in public/private housing developments or government quarters) is not subject to assessment under the Technical Memorandum.
- 3.6. **Noise Level Requirements**: All major fixed noise sources shall be located and designed so that when assessed in accordance with the Technical Memorandum.
 - 3.6.1. The level of the intruding noise at 1m from the façade of the nearest sensitive receiver shall be at least 5 dB(A) below the appropriate ANL shown in Table 2 of the Technical Memorandum.
 - 3.6.2. In the case of the background being 5 dB(A) lower than the ANL, the intruding noise shall not exceed the background noise level, in accordance with paragraph 4.2.13, Chapter 9 of the Hong Kong Planning Standards and Guidelines.
 - 3.6.3. Applicants are required to justify the selected Area Sensitivity Rating (ASR).
- 3.7. The noise prediction/ assessment report should at least include the following information:
 - 3.7.1. Description of NSRs.
 - 3.7.2. Identification of ASRs and ANLs with justifications and background noise level for each NSR to support the noise criteria.

- 3.7.3. Identification of major fixed noise sources.
- 3.7.4. Assessment methodology.
- 3.7.5. Noise calculation and/ or measurement results.
- 3.7.6. Equipment schedule(s) and layout plan(s) of noise generating equipment with clear indication(s) showing the major fixed noise source provided by the project developer/ owner.
- 3.7.7. Supporting documents for noise attenuation considered in the calculation, such as drawings with indication and justification for barrier/ screening correction, or technical data (e.g. datasheet, design drawings) showing the information of acoustic treatment, etc. (if applicable).
- 3.8. **Report Endorsement:** The acoustic calculation and/ or measurement report shall be endorsed by one of the following:
 - 3.8.1. Corporate Member of Hong Kong Institute of Acoustics.
 - 3.8.2. Corporate/ certified/ full member of other international acoustic institution.
 - 3.8.3. Member of HKIE (Building Services, Mechanical or Environmental discipline) with relevant experience in Acoustic/ Vibration Design.

Submittals		c uments softcopies with filename prefix as leftmost column below.	ΡΑ	FA
	SS-01-05_00	EB submission form for SS-01-05	\checkmark	\checkmark
	SS-01-05_01	Summary table listing the nearest NSRs, building equipment sound level and quantities		\checkmark
	SS-01-05_02	Location plan indicating the distance between NSRs and noise sources		
	SS-01-05_03	Equipment catalogues showing the sound power level		
	SS-01-05_04	Endorsed calculation or measurement report	-	
	SS-01-05_05	CV of the professional	-	\checkmark

(a) Additional Information

Environmental Protection Department – Technical Memorandum for the Assessment of Noise from Places Other than Domestic Premises, Public Places or Construction Sites

[ONLINE]

https://www.epd.gov.hk/epd/sites/default/files/epd/english/environme ntinhk/noise/guide_ref/files/tm_nondomestic.pdf [Accessed Jun 2025]

Hong Kong Planning Standards and Guidelines, Chapter 9 Environment [ONLINE] https://www.pland.gov.hk/file/tech_doc/hkpsg/full/pdf/ch9.pdf [Accessed Jun 2025]

(b) Related Credit Head(s)

3	Sustainable Site	SS-0	02	Urban Biodiversity		
		SS-(02-01	Lighting Pollution Mitigation		
	Objective	Mini	mise light po	ollution caused by external lighting.		
	Credit point(s) Attainable	2				
	Credit Requirement			t(s) for switching off landlord's controlled external lightings :00 or 22:00 to 07:00.		
		Alte	ernatively,			
				int(s) for the building being awarded with a Platinum or under "Charter on External Lighting";		
		or	r			
		2 cre	edit points fo	r the absence of landlord's controlled external lighting.		
	Assessment	1.		external lighting management policy endorsed by top nt of the building owner/ management company.		
		2.		outs/ building services drawings showing the locations of I lightings under landlord's control.		
		3.		operation schedule demonstrating the external lightings ord's control are switched off at the designated period.		
		4.	Provide ph demonstrat	oto records of external lightings under landlord's control ing the:		
				ch-on state (i.e. before 22:00 or 23:00); ch-off state (i.e. after 22:00 or 23:00).		
		Alte	ernatively,			
		1.		id certificate of participation for the building being awarded amond/ Platinum Award Under "Charter on External		
			or			

2. Provide layouts/ building services drawings showing the absence of external lightings under landlord's control.

Submittals

•	uments softcopies with filename prefix as eftmost column below.	PA	FA			
SS-02-01_00	SS-02-01_00 EB submission form for SS-02-01					
SS-02-01_01	External lighting management policy endorsed by top management (if there is external lighting)	\checkmark				
SS-02-01_02	Layouts/ building services drawings	\checkmark	\checkmark			
SS-02-01_03	External lighting operation schedule (if there is external lighting)	\checkmark				
SS-02-01_04	Photo records of all landlord's controlled external lighting in both switch-on and switch-off state (if there is external lighting)	-				
SS-02-01_05	Valid certificate of Diamond/ Platinum Award under "Charter on External Lighting" (if applicable)	\checkmark	\checkmark			

Remarks

(a) Additional Information

Task Force on External Lighting. Document for Engaging Stakeholders and the Public [ONLINE] https://www.eeb.gov.hk/sites/default/files/en/node3521/TFEL_Report _Eng.pdf

[Accessed Jun 2025]

(b) Related Credit Head(s)

3	Sustainable Site	SS-02		Urban Biodiversity					
		SS-02-	02	Site Biodiversity					
	Objective	Enhand	ce the biod	diversity of the site.					
	Credit point(s) Attainable	1							
	Credit Requirement	1 credit site.	credit point for implementing measures to enhance the biodive te.						
	Assessment		rovide a oplemente	summary to illustrate the following measures are d:					
		1.	1. Increas	se diversity and complexity of planting					
			1.1.1.	Provide planting plans that illustrate: a. Plant species type and characteristics (tree/ shrub/ herb/ climber);					
			 b. Nativeness of the species (native/ exactly and location of the plants. 						
			1.1.2.	Demonstrate the planting scheme incorporated all elements below:					
			a. Diverse plant species which referen rule for planting as stipulated Complementary Vegetation Comn Street Tree Selection Guide by the Bureau.						
				b. Use >30% in number of plants module by native or adaptive species.					
		1.	2. Wildlife	e-friendly building features					
		1.2.1. Demonstrate wildlife-friendly building features on desig drawings that reduce bird collision on windows (e.g. us pattern on glass/ façade/ shades).							
	Submittals	Supporting DocumentsPAFAPlease provide softcopies with filename prefix as indicated on the leftmost column below.PAFA							
		SS-02	2-02_00	EB submission form for SS-02-02 $\sqrt{\sqrt{\sqrt{1-10}}}$					

SS-02-02_01

-

Biodiversity enhancement report

(a) Additional Information

Development Bureau. Street Tree Selection Guide "Chapter 9 – Complementary Vegetation Community Mix" [ONLINE] https://www.greening.gov.hk/filemanager/greening/en/content_118/C hpt_9.pdf [Accessed Jun 2025]

Development Bureau. Pictorial Guide to Plant Resources for Skyrise Greenery in Hong Kong, Greening, Landscape & Tree Management Section [ONLINE] https://www.greening.gov.hk/en/greening-landscape/right-plant-rightplace/skyrise-greenery/pictorial-guide-to-plant-resources-for-skyrise-

gre/index.html

[Accessed Jun 2025]

Designing for Biodiversity: A Technical Guide for New and Existing Buildings. Second Edition. RIBA Publishing, London. UK

(b) Related Credit Head(s)

3	Sustainable Site	SS-03	Heat Island Reduction					
		SS-03-01	Urban Heat Island Mitigation Measures					
	Objective	Adopt various m	neasures to mitigate urban heat island effect.					
	Credit point(s) Attainable	1						
	Credit Requirement		demonstrating the implementation of adequate measures urban heat island effect within the project.					
	Assessment		calculation to demonstrate the use of any combination of lies for the non-roof and roof area to meet the following nt:					
		Area of non- roof with strategies	Area of high Area of Total non- reflectance vegetated roof roof area + <u>roof</u> + <u>with strategies</u> > +					
		0.5	0.75 0.5 Total roof area					
		Where:						
		located ab	Horizontal surfaces that are exposed from an aerial view, ove 15 meters measured from ground level. area: Horizontal surfaces that are exposed from an aerial					
			ed below 15 meters measured from ground level.					
		List of strateg	ies for non-roof area					
		Greenery	Shading device Blue spaces					
			als with solar reflectance (SR) of 0.33					
		Other strategie	es proposed by the Applicant					
		List of strateg	y for high reflectance roof					
		Roof Materials	with Solar Reflectance Index (SRI) of 78 or above					
		List of strateg	ies for vegetated roof					
		Greenery	Roof farming					
		Other strategies proposed by the Applicant						
		2. Provide layout drawings to illustrate the locations and areas of the proposed strategies in supporting the calculation.						
		-	eenery areas shall be measured based on the soil areas as n on the drawings.					
		2.2. Greer	nery in movable pots shall not be accounted.					

- 2.3. Reduction factor is not necessary for water feature.
- 2.4. All roof farming areas shall be measured horizontally based on the soil areas as shown on the drawing.

- 2.5. Areas occupied by mechanical equipment may be excluded from the roof area and non-roof area calculation at the Applicant's discretion.
- 3. Provide supporting sample photo records (at least 1 photo for each of the applicable strategies).
- 4. Provide catalogue or laboratory test reports showing the SR/ SRI value of the material.
- 5. If other strategies are proposed by the Applicant, a detailed justification must be provided on how these strategies could meet the objectives of this credit head.

•	iments softcopies with filename prefix as aftmost column below.	ΡΑ	FA
SS-03-01_00	EB submission form for SS-03-01	\checkmark	\checkmark
SS-03-01_01	Narrative of the strategies used with calculation		\checkmark
SS-03-01_02	Layout drawing	\checkmark	\checkmark
SS-03-01_03	Photo records of the strategies	-	\checkmark
SS-03-01_04	Catalogue or laboratory test reports of SR of paving materials (if applicable)		
SS-03-01_05	Catalogue or laboratory test reports of SRI of roof materials (if applicable)		\checkmark

Submittals

(a) Additional Information

Organic Farming, Agriculture, Fisheries and Conservation Department [ONLINE] https://www.afcd.gov.hk/english/agriculture/agr_orgfarm/ag r_orgfarm.html [Accessed Jun 2025]

Greening, Landscape and Tree Management Section, Development Bureau [ONLINE] http://www.greening.gov.hk/en/home/index.html [Accessed Jun 2025]

(b) Related Credit Head(s)

3	Sustainable Site	SS-()4 Bı	uilding-scale Climate Adaptation Meas	sures	
		SS-()4-02 Bu	uilding-scale Climate Adaptation Meas	sures	
	Objective	Ena	ble the building	to have a better adaptation to extreme c	limate e	events.
	Credit point(s) Attainable	4				
	Credit Requirement		aximum 4 credit points for incorporating one (1) to four (4) listed below into the building's climate adaptation plan:			actices
		i) ii) iv) v) vi) vii)	Heat waves; Typhoon; Lightning; Heavy precipit Flooding; Landslide; Others.	ations;		
	Assessment	1.	listed in credit	erned aspect(s) The plan shall impact of the		
		2.	. Include corresponding solution(s) in the plan in re concerned aspect and elaborate how the solution(s) the building's resilience to extreme climate events.			
		3.	The adaption p	plan shall include the following:		
			3.1. Description potential	on of the identified aspect, including its impact;	s severi	ity and
			3.2. Proposed	d solution(s) in response to the aspect;		
			3.3. Drawings	of the solution(s);		
			3.4. Photo rec	cords of the solution(s).		
		4.	4. The Applicant shall refer to the European Union's publication Building-scale Climate Adaptation Measures Best Practice Guidan for the assessment and solutions. Any other best practice guideling shall be submitted with the assessment report for substantiation used.			
	Submittals	Ple	Supporting DocumentsPPlease provide softcopies with filename prefix asindicated on the leftmost column below.			FA
		_	-04-02_00	EB submission form for SS-04-02		
		33	-04-02_01	Adaptation plan		

(a) Additional Information

Building-scale Climate Adaptation Measures Best Practice Guidance, European Union [ONLINE] https://op.europa.eu/en/publication-detail/-/publication/b175c9cb-cc5b-11ed-a05c-01aa75ed71a1/language-en [Accessed Jun 2025]

(b) Related Credit Head(s)

3	Sustainable Site	SS-05		Neighbourhood Integration
		SS-(05-01	Neighbourhood Integration
	Objective	Integ	grate the pro	pject building with the neighbourhood community.
	Credit point(s) Attainable	2		
	Credit Requirement	(a)	Communi	ty Engagement
			1 credit po	int for providing at least two (2) of the following items:
			ii) A per amen area t iii) At lea	te venues or public spaces for community engagement; manent onsite display or digital platform promoting local ities, such as facilities and services available in a nearby hat enhance the quality of life for building users; st two (2) volunteer activities for community engagement ded by employees of the building management team ally:
			iv) At lea public	st four (4) community engagement events available to the free of charge annually; features proposed by the Applicant.
		(b)	Communi	y Space
				int for providing at least two (2) of the following designated spaces/ strategies to building occupants:
			 areas ii) Outdo trees, iii) No sr desig entrar iv) A reg food; v) Cano zone 	cly accessible on-site resting spaces equipped with seating , available at no charge; oor garden with natural and restorative elements, such as plants, water features, etc.; noking is allowed for outdoor communal spaces except nated smoking area located at least 7.5m away from all nees and fresh air intake; ularly organised on-site market offering locally sourced py with a minimum width of 2m, serving as a protected against wind-driven rain/ sunlight at outdoor/ semi-outdoor nunal area; features proposed by the Applicant.
	Assessment	(a)	Communi	y Engagement
				de a report detailing the community engagement items led in this project.
			2. The re	eport shall include the following for each item:
			2.2. 2.3. /	A description of the item provided; Drawing(s) or photo record(s) of provisions for community engagement; Attendance record and record photographs of activities / brogramme for community engagement.
			of how	er features are proposed by the Applicant, an elaboration w the features could meet the objective of this credit shall stified.

(b) Community Space

- 1. Provide a report detailing the community space items provided in this project.
- 2. The report shall include the following for each item:
 - 2.1. A description of the items provided;
 - 2.2. Drawing(s) or photo record(s).
- 3. If other features are proposed by the Applicant, an elaboration of how the features could meet the objective of this credit shall be justified.

Submittals

(a) Community Engagement

Supporting Documents

Supporting Doct	Supporting Documents							
Please provide	softcopies with filename prefix as							
indicated on the le	eftmost column below.							
SS-05-01a_00	EB submission form for SS-05-01a	\checkmark	\checkmark					
SS-05-01a_01	Report for community engagement	\checkmark	\checkmark					

(b) Community Space

Supporting Docu	iments	PA	FA
	softcopies with filename prefix as aftmost column below.		
SS-05-01b_00	EB submission form for SS-05-01b	\checkmark	\checkmark
SS-05-01b_01	Report for community space		

Remarks

(a) Additional Information

Hong Kong Planning Standards and Guidelines. Chapter 3: Community Facilities, Planning Department [ONLINE] https://www.pland.gov.hk/file/tech_doc/hkpsg/full/pdf/ch3.pdf [Accessed: Jun 2025]

Hong Kong Planning Standards and Guidelines. Chapter 4: Recreation, Open Space and Greening, Planning Department [ONLINE] https://www.pland.gov.hk/file/tech_doc/hkpsg/full/pdf/ch4.pdf [Accessed Jun 2025]

(b) Related Credit Head(s)

3	Sustainable Site	SS-0)5 N	leighbourhood Int	egration			
		SS-0	95-02 A	ctive Commuting	Support			
	Objective	Pron	note active co	mmuting.				
	Credit point(s) Attainable	1						
	Credit Requirement		edit point for porting active o		two (2) of the followin	ng facili	ties in	
		Reg sho Des par	List of facilities Regular occupants' access to showers lockers Designated spaces of cycling parking for regular occupants washing & maintenance Other features proposed by the Applicant					
	Assessment	1.	support					
		2.	The report shall include summary table of items provided and drawing, photo records and information of each item.					
		3.	Cycling parking facilities shall comply with the requirements in Section 6 – Cycling of Internal Transport Facilities presented in the Chapter of HKPSG or Transport Department's requirements.					
		4.	. For non-residential projects or non-residential portion of mixed-use projects, 1 shower and/ or locker shall be provided for the first 100 regular building occupants (excluding occasional visitors) and one additional shower facility for every additional 150 regular building occupants.					
		5.			the Applicant, an elab ctive of this credit shal			
	Submittals	Ple	•		filename prefix as 'ow.	PA	FA	
			-05-02_00	EB submission fo				
		SS	-05-02_01	Report for active	community support			
	Remarks	(a) Additional Information						
			Transport Fac [ONLINE]	cilities, Planning De pland.gov.hk/file/tec	and Guidelines. Chap partment h_doc/hkpsg/full/pdf/cł		nternal	
		(b)	Related Cred	dit Head(s)				

3	Sustainable Site	SS-(06	Low Carbon Commuting
		SS-(06-01	EV Charging Facilities
	Objective	Pror	note the use	of electric vehicles.
	Credit point(s) Attainable	4		
	Credit Requirement	(a)	1 to 2 cred 7kW) for at	/ Charging Facilities it point(s) for providing medium chargers (output power ≥ least 2.5% or 5.0% of all parking spaces for private cars, s and light good vehicles.
		(b)	1 credit po	Charging Facilities int for providing at least two (2) quick chargers (output kW) in the carpark.
		(c)	1 credit poi ≥ 100kW) i	harging Facilities nt for providing at least one (1) fast charger (output power n the parking spaces designated for coaches, light buses ium/ heavy goods vehicles.
	Assessment	(a)	Medium E	/ Charging Facilities
				le a summary report for the calculation of the percentage dium chargers provided with respect to all parking spaces.
			2. Provid charge	le schematic drawings and photos of the medium ers.
			3. Provid	le the catalogues of the medium chargers installed.
		(b)	Quick EV (Charging Facilities
			1. Provic provid	le a summary report for the numbers of quick chargers ed.
			2. Provid	le schematic drawings and photos of the quick chargers.
			3. Provid	le the catalogues of the quick chargers installed.
		(c)	Fast EV CI	narging Facilities
			1. Provic provid	le a summary report for the numbers of fast chargers ed.
			2. Provid	le schematic drawings and photos of the fast chargers.
			3. Provid	le the catalogues of the fast chargers installed.

Submittals

(a) Medium EV Charging Facilities

	iments softcopies with filename prefix as aftmost column below.	ΡΑ	FA
SS-06-01a_00	EB submission form for SS-06-01a	\checkmark	\checkmark
SS-06-01a_01	Summary report of the medium chargers	\checkmark	\checkmark
SS-06-01a_02	Schematic drawings for the medium chargers	\checkmark	\checkmark
SS-06-01a_03	Photo records of the medium chargers	-	
SS-06-01a_04	Catalogues of the medium chargers	\checkmark	\checkmark

(b) Quick EV Charging Facilities

Supporting Documents PA Please provide softcopies with filename prefix as indicated on the leftmost column below. PA SS 06 01b 00 ER submission form for SS 06 01b			
SS-06-01b_00	EB submission form for SS-06-01b	\checkmark	
SS-06-01b_01	Summary report of the quick chargers	\checkmark	
SS-06-01b_02	Schematic drawings for the quick chargers		
SS-06-01b_03	Photo records of the quick chargers	-	
SS-06-01b_04	Catalogues of the quick chargers		\checkmark

(c) Fast EV Charging Facilities

•	iments softcopies with filename prefix as aftmost column below.	ΡΑ	FA
SS-06-01c_00	EB submission form for SS-06-01c	\checkmark	
SS-06-01c_01	Summary report of the fast chargers	\checkmark	
SS-06-01c_02	Schematic drawings for the fast chargers		
SS-06-01c_03	Photo records of the fast chargers	-	
SS-06-01c_04	Catalogues of the fast chargers	\checkmark	

Remarks

(a) Additional Information

Promotion of Electric Vehicles, Environmental Protection Department [ONLINE]

https://www.epd.gov.hk/epd/english/environmentinhk/air/promotion_ ev/promotion_ev.html [Accessed Jun 2025]

(b) Related Credit Head(s)

4. Materials and Waste The amount and types of materials used, as well as the waste generated in the operation, maintenance, and fitting-out of buildings, represent a significant use of natural resources. Opportunities exist to reduce environmental impacts through interior design methods and the choice of materials and products, in terms of extracted raw materials, emissions, and embodied energy. Enhancing the circularity of the building through sustainable practices not only minimises waste but also promotes the reuse and recycling of materials, contributing to a more sustainable lifecycle. Discussion on waste management is more critical than ever. It is important to encourage stakeholders to recognise the importance of waste management for existing buildings.

The following Credit Heads are not applicable under EB v3.0:

Credit Code	Credit Head
MW-00-01	Minimum Waste Handling Facilities
MW-01-01	Building Re-use
MW-01-02	Modular and Standardised Design
MW-01-03	Prefabrication
MW-01-04	Design for Durability and Resilience
MW-02-01	Sustainable Forest Products
MW-02-02	Recycled Materials
MW-02-04	Regional Materials
MW-03-01	Adaptability and Deconstruction
MW-03-03	No Bottled Water
MW-04-01	Best Practice on Material Usage

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4	Materials and Waste	MW	MW-02 Selection of Materials			
		MW	-02-03	Ozone Depleting Substances		
	Objective		uce the rel osphere.	lease of harmful ozone-depleting subst	ances into the	
	Credit point(s) Attainable	1				
	Credit Requirement	Opti	ion 1: Low-	Impact Refrigerants		
				r demonstrating all the equipment using Potential (GWP) fulfils the prescribed crit		
		Opti	ion 2: Calcı	ulation of Refrigerants Impact		
		com		demonstrating all the equipment using re e Depletion Potential (ODP) and GWP va eshold.		
		Opti	ion 3: Refri	gerants Management		
				or demonstrating a phased down program refrigerants GWP value > the prescribed o		
	Assessment	1.	Small air-conditioning units, defined as those containing less than 0.23 kg of refrigerant, and other equipment, such as standard refrigerators, small water coolers and any other cooling equipment that contains less than 0.23 kg of refrigerant, can be excluded from this assessment.			
		2.	Provide sample photo record(s) for each type of equipment using refrigerants.			
		3.	Provide equipment catalogue(s) or technical sheet(s) to demonstrate the refrigerant type of all the equipment.			
		4.	It is acceptable to adopt the maximum GWP value as stipulated in the national policy, based on the assessed building's geographical location. The Applicant shall provide supporting documentation for this. If such documentation is not available, prescribed criteria of GWP value shall be followed.			
		Opti	Option 1: Low-Impact Refrigerants			
		1.	1. Provide summary table listing the equipment using refrigerants, equipment type, model number, refrigerant type, GWP value and quantity.			
		2.	2. Demonstrate GWP value of all refrigerants fulfils the below criteria:			
				Equipment	GWP Value	
			air-condition	air-conditioner, unitary, split, packaged oner, heat pump	≤ 750	
			Air-cooled		≤ 750	
			Water-coo	led chiller	≤ 150	

Option 2: Calculation of Refrigerants Impact

- 1. Provide summary table listing the equipment using refrigerants, equipment type, model number, refrigerant type, GWP value, ODP value and quantity.
- 2. Demonstrate the equipment using refrigerants shall fulfil the following equation which determines a maximum threshold for the combined contributions to ozone depletion and global warming (if applicable):

LCGWP + LCODP x $10^5 \le 13$

LCGWP	=	Lifecycle Global Warming Potential (kg CO ₂ /kW-Yr) [GWPr x (Lr x Life + Mr) x Rc] / Life
LCODP	=	Lifecycle Ozone Depletion Potential (kg CFC 11 /kW- Yr)
	=	[ODPr x (Lr x Life + Mr) x Rc] / Life
GWPr	=	Global Warming Potential of Refrigerant
ODPr	=	Ozone Depletion Potential of Refrigerant (0 to 0.2kg CFC 11/kg r)
Lr		Refrigerant Leakage Rate (0.5% to 2%; default of 2% unless otherwise demonstrated)
Mr	=	End-of-life Refrigerant Loss (2% to 10%, default of 10% unless otherwise demonstrated)
Rc	=	Refrigerant Charge
Life	=	Equipment Life (default based on equipment type as listed in table below, unless otherwise demonstrated)

Equipment	Default Equipment Life
Window air-conditioner	10 years
Unitary, split, packaged air-conditioner, heat pump	15 years
Air-cooled chiller	20 years
Water-cooled chiller	25 years

3. For systems with different types of equipment, a weighted average of all the air-conditioning and refrigeration equipment shall be calculated using the following equation:

$$\frac{\sum (LCGWP + LCODP \times 10^5) \times Q_{unit}}{Q_{total}} \le 13$$

 Q_{unit} = Gross ARI rated cooling capacity of an individual airconditioning or refrigeration unit (kW)

 Q_{total} = Total fross ARI rated cooling capacity of all air-conditioning or refrigeration unit (kW)

Option 3: Refrigerants Management

- 1. Provide a phased down plan endorsed by building-in-charge/ team lead of building management team or the top management of building owner/ building management company for detailing the following as a minimum (if applicable):
 - 1.1 Objectives;
 - 1.2 List of equipment with refrigerants, with details of equipment type, model number, refrigerant type, GWP value and quantity;
 - 1.3 Phased down schedule (tentative programme with commitment to phased down relevant equipment within 10 years and identify potential new refrigerant with GWP value lower than the existing).

Supporting Docu	iments	PA	F.
•			
MW-02-03_00	EB submission form for MW-02-03		١
MW-02-03_01	Equipment catalogue(s) or technical sheet(s)	-	١
MW-02-03_02	Sample photo record(s) for each type of the equipment using refrigerants	-	١
MW-02-03_03	Evidence showing the maximum GWP Value as stipulated in the national policy, based on the assessed building's geographical location (if applicable)	\checkmark	~
Option 1: Low-Im	pact Refrigerants		
MW-02-03_04	Summary table of equipment using refrigerants to demonstrate the GWP values fulfils the criteria		٦
Option 2: Calcula	lease provide softcopies with filename prefix a dicated on the leftmost column below.W-02-03_00EB submission form for MW-02-03 W-02-03_01W-02-03_01Equipment catalogue(s) or technical sheet(s)W-02-03_02Sample photo record(s) for each typ of the equipment using refrigerantsW-02-03_03Evidence showing the maximur GWP Value as stipulated in the national policy, based on the assessed building's geographical location (if applicable)ption 1: Low-Impact RefrigerantsW-02-03_04Summary table of equipment using refrigerants to demonstrate the GW values fulfils the criteriaption 2: Calculation of Refrigerants ImpactW-02-03_05Summary table of equipment using refrigerant to support the calculation of combined contributions to ozond depletion and global warmingW-02-03_06Calculation of all equipment using refrigerants for the combined contributions to ozone depletion and 		
MW-02-03_05	Summary table of equipment using refrigerant to support the calculation of combined contributions to ozone depletion and global warming	\checkmark	٦
MW-02-03_06	contributions to ozone depletion and	\checkmark	1
Option 3: Refrige	erants Management		
MW-02-03_07	refrigerant replacement for existing	\checkmark	٦

Submittals

_			
Re	ma	irks	5

(a) Additional Information

Environmental Protection Department. A Concise Guide to the Ozone Layer Protection Ordinance [ONLINE]

https://www.epd.gov.hk/epd/sites/default/files/epd/ 93 nglish/environ mentinhk/air/ozone_layer_protection/files/cgto-eng_201702.pdf [Accessed Jun 2025]

Environmental Protection Department. A Concise Guide to the Ozone Layer Protection (Controlled Refrigerants) Regulation [ONLINE] https://www.epd.gov.hk/epd/sites/default/files/epd/ 93 nglish/environ mentinhk/air/ozone_layer_protection/files/CGT-eng_201702.pdf [Accessed Jun 2025]

Environmental Protection Department. Ozone Layer Protection [ONLINE]

https://www.epd.gov.hk/epd/english/environmentinhk/air/ozone_laye r_protection/wn6_info_olp_ue_c.html [Accessed Jun 2025]

Environmental Protection Department. Guidelines to Account for and Report on Greenhouse Gas Emissions and Removals for Buildings (Commercial, Residential or Institutional Purposes) in Hong Kong [ONLINE] https://www.epd.gov.hk/epd/sites/default/files/epd/gn_pdf/GN2014P 097-2014c-e.pdf

[Accessed Jun 2025]

Electrical and Mechanical Services Department, Refrigerant Newsletters 20th Issue [ONLINE] https://www.emsd.gov.hk/frsafety/filemanager/tc/content_1393/Refri gerant_Newsletter_20th.pdf [Accessed Jun 2025]

USGBC. LEED v4.1 for Building Operation and Maintenance.

(b) Related Credit Head(s)

- 4 Materials and Waste MW-02 Selection of Materials
 - MW-02-05 Use of Green Products

Objective Encourage the use of certified green products during renovation/ major retrofitting works that have low environmental impacts.

Credit point(s) Attainable 6

Credit Requirement

(a) Green Building Components

1 to 3 credit point(s) shall be awarded when renovations use certified green building components equivalent to 10%, 20% or 30% of the total building components cost. The products shall be certified under CIC Green Product Certification or other internationally recognised standards.

Types of building components are shown below:

Building Components								
Panel Board	Ceramic Tile	Adhesive & Sealant	Stone					
Paint &	Pavement	Thermal	Ready-mixed					
Coating	Block	Insulation	Concrete					
Glazing	Plant-based	Block for	Other products					
	Fibre	Internal	proposed by					
	Composite	Partition	the Applicant					

(b) Green Building Services Systems

1 to 3 credit point(s) shall be awarded when major retrofitting works use certified green building services systems equivalent to 10%, 20% or 30% of the total building services systems cost. The products shall be certified under CIC Green Product Certification or other internationally recognised standards.

Types of building services systems are shown below:

Building Services Systems						
Thermal Insulations	VRF Split Type System	Cooling Tower	Air-handling Unit			
Fan Coil Unit	Chiller	Water Pump	Cable & Wire			
Lighting (LED lighting, Compact Fluorescent Lamp Bulb, Electronic Ballast)		Other products Appl				

Assessment

(a) Green Building Components

- 1. Only renovated building components that are completed within the past 12 months at the time of first submission shall be assessed.
- 2. Provide the percentage calculation of all the items including certified green building products.

 $\frac{\sum Renovated Green Building Component (\$)}{\sum Renovated Building Component (\$)} \times 100\%$

- 3. Include a summary table listing the types of renovated building components, product name/ model, manufacturer, certification body, calculation and reference source. The summary table shall be endorsed by building-in-charge/ team lead of building management team or the top management of building owner/ building management company.
- 4. Provide layout with demarcation of the renovated area and highlighting all renovated building components.
- 5. Provide supporting document (e.g. catalogues, technical data sheets) and/ or certificates of the green building products.
- 6. Provide photo records showing each of the green building products.
- 7. For any green products, which have been certified under other internationally recognised schemes, the Applicant shall refer to the list of worldwide recognised Green Building Product Certifications and Standards under HKGBC's Eco-Product Directory (https://epdir.hkgbc.org.hk/isubpagex.php?serial=31) or provide the product's technical information with justification for BSL's consideration.

(b) Green Building Services Systems

- Only additional/ replaced building services systems in major retrofitting works completed within the past 12 months at the time of first submission shall be assessed. The Applicant shall make reference to Buildings Energy Efficiency Ordinance (Cap. 610) for the definition of major retrofitting works.
- 2. Provide the percentage calculation of all items including certified green building services systems.

 $\frac{\sum Retrofitted Green Building Services Systems (\$)}{\sum Retrofitted Building Services Systems (\$)} \times 100\%$

- 3. Include a summary table listing the type of retrofitted building services systems, product name/ model, manufacturer, certification body, calculation and reference source. The summary table shall be endorsed by building-in-charge/ team lead of building management team or the top management of building owner/ building management company.
- 4. Provide layout plan with demarcation of the retrofitted area and highlighting all retrofitted building services system(s).

Submittals

- 5. Provide supporting document (e.g. catalogue, technical data sheet) and/ or certificate(s) of the green building services systems.
- 6. Provide photo record(s) showing the provision(s).

For any green products, which have been certified under other internationally recognised schemes, the Applicant shall refer to the list of worldwide recognised Green Building Product Certifications and Standards under HKGBC's Eco-Product Directory (https://epdir.hkgbc.org.hk/isubpagex.php?serial=31) or provide the product's technical information with justification for BSL's consideration.

(a) Green Building Components

•	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
MW-02-05a_00	EB submission form for MW-02-05a	\checkmark	\checkmark
MW-02-05a_01	Endorsed summary table listing the type of renovated building components, product name/ model, manufacturer, certification body, percentage calculation and reference source	V	V
MW-02-05a_02	Layout drawing(s) showing the provision(s)	\checkmark	\checkmark
MW-02-05a_03	Photo record(s) showing the provision(s)	-	\checkmark
MW-02-05a_04	Supporting document and/ or certificate(s) of the green building product(s)		\checkmark

(b) Green Building Services Systems

Supporting Docu	iments	PA	FA
•	softcopies with filename prefix as		
indicated on the le			
MW-02-05b_00	EB submission form for MW-02-05b	\checkmark	
MW-02-05b_01	Endorsed summary table listing the type of retrofitted building services systems, product name/ model, manufacturer, certification body, percentage calculation and reference source	V	V
MW-02-05b_02	Layout drawing(s) showing the provision(s)	\checkmark	
MW-02-05b_03	Photo record(s) showing the provision(s)	-	
MW-02-05b_04	Supporting document and/ or certificate(s) of the green building services product(s)	\checkmark	\checkmark

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(a) Additional Information

CIC Green Product Certification [ONLINE] http://cicgpc.hkgbc.org.hk [Accessed Jun 2025] HKGBC's Eco-Product Directory [ONLINE] https://epdir.hkgbc.org.hk/isubpagex.php?serial=31 [Accessed Jun 2025]

Environment and Ecology Bureau – Green Specifications [ONLINE] https://www.eeb.gov.hk/en/susdev/green_procure/green_spec.html [Accessed Jun 2025]

(b) Related Credit Head(s)

4	Materials and Waste	MW	-02	Selection of Materials
		MW	-02-06	Life Cycle Costing
	Objective			se of life cycle costing to facilitate investigation of potential specifications, operation and maintenance.
	Credit point(s) Attainable	1		
	Credit Requirement			r conducting life cycle costing analysis for active systems ng major retrofitting works.
	Assessment	1.	Ordinance Only majo completed submission	ant shall make reference to Buildings Energy Efficiency (Cap. 610) for the definition of major retrofitting works. or retrofitting works that have been commenced or within the past 12 months at the time of first assessment or are scheduled to be commenced or completed within e months following that date shall be assessed.
		2.	following a	e cycle costing analysis with design options for all of the ctive systems (if presented in the retrofitting scope) when g major retrofitting works:
			 2.2 Interio 2.3 Air-co 2.4 Lift & 2.5 Plumb 	ater system; or lighting system; nditioning system; escalators; bing and drainage systems; ical system.
		3.		cle costing analysis can be non-discounted and shall following costs:
			3.2 Opera3.3 Maint	sition (supply and installation costs); ation (utilities); enance (replacements, planned maintenance and gement costs).
			configuration	loping design options, the applicant shall consider different ons and specifications, for example, initial costs, number of units involved, equipment efficiency and lifespan, etc.
		4.	and 50 yea	st of each design option of active system over 20, 30, 40 ars and highlight which design option will have the lowest ost at the 50 th year.
		5.		ife cycle costing report including all the assumptions made sults of life cycle costing.
		6.	or quotati Surveyor a	te the costs with catalogues, suppliers' recommendations on. Cost approximations suggested by Quantitative are also accepted. No professional life cycle software is r this study.

PA FA

- 7. The life cycle costing report shall include at least the below items:
 - 7.1 Executive summary;
 - 7.2 Project description with retrofitting scope;
 - 7.3 System options to be considered;
 - 7.4 Life cycle costing and analysis;
 - 7.5 Conclusion.

Submittals

Supporting Documents

			softcopies with filename prefix as eftmost column below.		
MW-	02-06_0	0	EB submission form for MW-02-06	\checkmark	\checkmark
MW-	02-06_0)1	Life cycle costing report	\checkmark	\checkmark

Remarks

(a) Additional Information

ISO 15686-5:2008 Buildings & constructed assets – Service life planning – Part 5: Life cycle costing

(b) Related Credit Head(s)

- 4 Materials and Waste MW-03 Waste Reduction
 - MW-03-02 Enhanced Waste Handling Facilities
 - **Objective** Reduce pressure on landfill sites by promoting recycling of waste materials, fostering sustainable recycling habits, and raising public awareness through convenient and reliable recycling facilities.

Credit point(s) Attainable 6

Credit Requirement

(a) Recyclables Collection

1 to 2 credit point(s) for demonstrating the provisions of collection services or on-site recycling facilities/ designated storage area of any three (3)/ five (5) of the following waste streams:

Waste Streams	Waste Streams							
Rechargeable Batteries	Regulated Electrical Equipment (REE)	Beverage Cartons						
Fluorescent Lamps and Tubes	Restaurant Waste (Used Cooking Oils, Grease Trap Waste)	Small Electrical Appliances (cookers, toasters, ovens, irons, hair- dryers, phones, etc.)						
Dried/ Canned Food	Food Waste	Paper/ Carboard, Metal and Plastics						
Glass	Seasonal items (e.g. red pocket, mooncake box, clothes)							
Other recyclables may be proposed at the discretion of the Applicant								

(b) Recycling Performance

1 to 3 credit point(s) for demonstrating the annual recycling percentage by weight over the past 12 months meeting the prescribed requirements.

Credit Point(s)	Annual Recycling Percentage
1	10%
2	15%
3	20% or above

(c) Recycling Transparency and Disclosure

1 credit point will be awarded for premises that publicly disclose their recycling performance data on a quarterly basis.

Assessment

(a) Recyclables Collection

- 1. Provide on request recycling services or at least one recycling facility/ designated storage area for each recyclable stream.
- 2. If recycling facility/ designated storage area for each recyclable stream is provided, same type of recycling facilities in multiple

locations can only be counted once. The size of the recycling facilities, collection frequency are not regulated.

- 3. If on-request recycling services are proposed by the Applicant, at least one public signage or notice shall be provided to notify the building users about the provision of services. If a recycling facility/ designated storage area is provided, the recycling facilities shall be placed in a location that is accessible to all building users.
- 4. Provide sample receipts from recyclers/ photos showing collection of recyclables by recyclers of each applicable waste stream.
- 5. On-site food waste processing can be treated as recyclable collection, provided that the by-products from the processes can be used for other usage.

(b) Recycling Performance

- 1. Provide waste flow table detailing the monthly waste generation and recycling for each waste stream for the past 12 months. The waste flow table shall be endorsed by building-in-charge/ team lead of building management team or the top management of building owner/ building management company.
- 2. Calculate the annual recycling percentage:

 $\frac{\text{Recycled Waste (m³ or kg)}}{\text{Total Recycled Waste + Total Waste to Landfill (m³ or kg)}} \times 100\%$

(c) Recycling Transparency and Disclosure

- 1. The recycling performance data of the building shall be disclosed to the public (e.g., via notice boards within the premises or digital links) on a quarterly basis.
- 2. Provide at least two (2) photos or screenshots of digital links with date demonstrating the public disclosure of recycling performance.

Submittals

(a) Recyclables Collection

Supporting Docu	iments	PA	FA
	softcopies with filename prefix as aftmost column below.		
MW-03-02a_00	EB submission form for MW-03-02a	\checkmark	
MW-03-02a_01	Drawings showing the locations of the recycling facility/ designated storage area	\checkmark	
MW-03-02a_02	Photo records showing the provision of recycling facility/ designated storage area and/ or evidence of on request recycling services	-	
MW-03-02a_03	Sample receipts from recyclers/ photos showing collection of recyclables by recyclers of each applicable waste stream/ photos showing application of on-site food waste processing and the use of by- products from the processes	-	V
MW-03-02a_04	Justifications for by-products from food waste processing can be used for other usage and accessible by all building users (if applicable)		

(b) Recycling Performance

	iments softcopies with filename prefix as aftmost column below.	ΡΑ	FA
MW-03-02b_00	EB submission form for MW-03-02b	\checkmark	\checkmark
MW-03-02b_01^	Endorsed waste flow table	\checkmark	
MW-03-02b_02	Calculation on annual recycling percentage		

(c) Recycling Transparency and Disclosure

	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
MW-03-02c_00	EB submission form for MW-03-02b	\checkmark	\checkmark
MW-03-02c_01	Photos or screenshots of digital links demonstrating the public disclosure	-	

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

MW-03-05 Waste Reduction Performance

4	Materials and Waste	MW-03		Waste Reduction
		MW	-03-04	Action to Waste Reduction
	Objective			t practices for the management of waste, including ing, recycling and disposal of waste.
	Credit point(s) Attainable	3		
	Credit Requirement	(a)	Waste Ma	nagement Plan
				int for developing and implementing Waste Management) for building operations.
		(b)	Waste Str	eam Audit
			1 credit po	int for conducting waste stream audit.
		(c)	Enhanced	Waste Management Practices
				int for developing and/ or implementing actions to improve erformance.
	Assessment	(a)	Waste Ma	nagement Plan
			Owne	de a WMP endorsed by top management of Building r/Building Management Company, including the following nt as minimum:
			1.2. 1.3. \ 1.4. \ 1.5. \ 1.6. 1.7. 1.8	Dbjectives; Responsibility; Waste minimisation programme; Waste recycle/ reuse programme; Waste data collection system; nfluence on building users (e.g. training/ workshop/ campaign); Resource allocation; Fraining for staff; Reporting to top management.
				de records such as monthly reports or photo records ng the WMP was properly implemented.
		(b)	Waste Stre	eam Audit
			quant use) e have	de a waste audit report that identifies the types and ities of waste that are expected regularly (from day to day etc. The audit shall determine the amounts of materials that potential for reducing or recycling. Site survey and mendations are required.
				vaste stream audit shall be conducted within the past 12 ns at the time of first submission.
			3 The s	waste audit report shall be endorsed by a professional

(c) Enhanced Waste Management Practices

1. Demonstrate that actions are developed (e.g., implementation programme, action plan) and/ or implemented to improve recycling performance (e.g. photo record) based on the findings of the waste stream audit.

Submittals

(a) Waste Management Plan

	iments softcopies with filename prefix as aftmost column below.	ΡΑ	FA
MW-03-04a_00	EB submission form for MW-03-04a	\checkmark	\checkmark
MW-03-04a_01	Endorsed WMP		
MW-03-04a_02	Implementation records of WMP	-	

(b) Waste Stream Audit

	iments softcopies with filename prefix as aftmost column below.	ΡΑ	FA
MW-03-04b_00	EB submission form for MW-03-04b	\checkmark	
MW-03-04b_01	Endorsed Waste Audit Report	\checkmark	
MW-03-04b_01	Professional Membership Certificate of the waste audit report endorser	\checkmark	

(c) Enhanced Waste Management Practices

Supporting Documents Please provide softcopies with filename prefix as indicated on the leftmost column below.		ΡΑ	FA
MW-03-04c_00	EB submission form for MW-03-04c	\checkmark	\checkmark
MW-03-04c_01	Action plan/ implementation recordsforrecyclingperformance $$ improvement $$		\checkmark

Remarks

(a) Additional Information

Environmental Protection Department – Green Office and Property Management – Waste Reduction and Recycling Information Booklet [ONLINE] https://www.wastereduction.gov.hk/sites/default/files/resources_cent re/Green_Office_and_Property_Management-Waste_Reduction_and_Recycling_Information_Booklet.pdf [Accessed Jun 2025] Environmental Protection Department – Waste Reduction Programme – Waste Reduction and Recycling Charter [ONLINE] https://www.wastereduction.gov.hk/en-hk/waste-reductionprogramme/waste-reduction-and-recycling-charter [Accessed Jun 2025]

(b) Related Credit Head(s)

- 4 Materials and Waste MW-03 Waste Reduction
 - MW-03-05 Waste Reduction Performance

Promote waste reduction and advocate the continual improvement for waste management

Credit point(s) Attainable 6

Credit Requirement

Objective

(a) Reduction at Source

1 to 5 credit point(s) for demonstrating an annual waste reduction by weight for the past 12 months meeting the prescribed requirements. Baseline year can be any year in the past 36 months.

Credit Point(s)	Annual Waste Reduction Percentage	
1	2%	
2	4%	
3	6%	
4	8%	
5	10% or above	

(b) Continuous Improvement

1 credit point for demonstrating a continuous reduction trend of waste generation over the past 36 months.

Assessment

(a) Reduction at Source

- Provide waste flow table detailing the monthly waste disposed to landfill for the past 12 months and the baseline year. The waste flow table shall be endorsed by building-in-charge/ team lead of building management team or the top management of building owner/ building management company.
- 2. Calculate the annual waste reduction percentage.
- $(1 \frac{\text{Current year annual waste disposed to landfill (m³ or kg)}{\text{Baseline year annual waste disposed to landfill (m³ or kg)}) \times 100\%$

(b) Continuous Improvement

- Provide waste flow table detailing the monthly waste disposed to landfill for the past 36 months. The waste flow table shall be endorsed by building-in-charge/ team lead of building management team or the top management of building owner/ building management company.
- 2. Calculate the annual waste disposed to landfill for the past 36 months and demonstrate there are continuous waste reduction for each year, i.e.
 - i) Waste disposed to landfill for past 1st to 12th month
 - ii) < Past 13th to 24th month
 - iii) < Past 25th to 36th month

Submittals

(a) Reduction at Source

Supporting Documents <i>Please provide softcopies with filename prefix as</i> <i>indicated on the leftmost column below.</i>		ΡΑ	FA
MW-03-05a_00	EB submission form for MW-03-05a		
MW-03-05a_01^	Endorsed waste flow table		
MW-03-05a_02	Calculation on annual waste reduction percentage		

(b) Continuous Improvement

Supporting Documents <i>Please provide softcopies with filename prefix as</i> <i>indicated on the leftmost column below.</i>		PA	FA
MW-03-05b_00	EB submission form for MW-03-05b	\checkmark	\checkmark
MW-03-05b_01	Endorsed waste flow table	\checkmark	
MW-03-05b_02	Calculation on annual waste reduction for the past 36 months	\checkmark	\checkmark

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

MW-03-02 Enhanced Waste Handling Facilities

- 4 Materials and Waste MW-04 Best Practice on Material Usage
 - MW-04-02 Green Purchasing Practices
 - **Objective** Encourage adoption of green purchasing practices to reduce environmental impacts of product used.

Credit point(s) Attainable 6

Credit Requirement

Maximum 6 credit points for purchasing environmentally friendly or certified products for one (1) to six (6) types of consumable or durable goods in the past 12 months.

Credit Point(s)	Percentage of Environmentally Friendly or Certified Item for each type of consumable or durable goods	
1	60%	
2	80%	

Types of consumables and durable goods are shown below:

Consumable		
Packaging materials	Paper for printing and	
	photocopying	
Paper products other than for	Plastic and rubber products	
printing and photocopying		
Printing and publishing supplies	Stationery and office supplies	
Other consumable may be proposed at the discretion of the Applicant		
Durable Goods		
Computer equipment and	Electrical appliances	
products		
Light fittings	Furniture	
Containers and collection bins for	Office equipment	
water/ recyclables		
Other durable goods may be proposed at the discretion of the Applicant		

Assessment

1. Provide the percentage calculation (by mass/ cost/ volume/ number of pieces) of each type of environmentally friendly/ certified products.

For each type of selected consumables and/ or durable goods:

 $\frac{\text{Environmentally friendly or certified products}}{\text{Total of product purchased in the past 12 months}} \ge 100\%$

- 2. Provide a summary table listing the product type, manufacturer, quantities, and environmental attributes. The summary table shall be endorsed by building-in-charge/ team lead of building management team or the top management of building owner/ building management company.
- 3. Provide documents (e.g. product catalogue) to substantiate the environmental attributes.
- 4. Provide photo records for the environmentally friendly/ certified products.

5. The Applicant shall make reference to the Green Specifications published by Environmental Protection Department (EPD) [1] for environmentally friendly products. Other international green purchasing guideline such as Sustainable Procurement Criteria published by Swedish Competition Authority [2] and Green Purchasing Guidelines published by GPN Japan [3] are also acceptable.

Submittals		uments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
	MW-04-02_00	EB submission form for MW-04-02	\checkmark	\checkmark
	MW-04-02_01 MW-04-02_02	Percentage calculation of environmentally friendly/ certified products Endorsed summary of environmentally friendly/ certified		۸
		environmentally friendly/ certified products	N	N
	MW-04-02_03	Supporting documents showing the environmental attributes		
	MW-04-02_04	Photo records of the environmentally friendly/ certified products	-	\checkmark

Remarks

(a) Additional Information

[1] Environment and Ecology Bureau – Green Specifications [ONLINE]

https://www.eeb.gov.hk/en/susdev/green_procure/green_spec.ht ml

[Accessed Jun 2025]

[2] Swedish Competition Authority – Find Sustainability Criteria [ONLINE] https://www.upphandlingsmyndigheten.se/en/criteria/ [Accessed Jun 2025]

[3] GPN Japan – Green Purchasing Guidelines [ONLINE] https://www.gpn.jp/english/index.html [Accessed Jun 2025]

(b) Related Credit Head(s)

5. Energy Use An objective of EB v3.0 is to encourage thorough evaluation of the performance of building and services system designs, and to promote greater investments in measures that will improve the energy performance of existing buildings. This aims to reduce energy consumption, associated environmental impacts, and summer peak electricity demand.

The assessment of the building and engineering systems is based on performance as much as possible. However, credit points are also awarded for features that have demonstrated contributions to energy efficiency and conservation. Additionally, credit points are granted when management, operation, and maintenance practices are implemented to achieve continual improvements in energy performance.

The following Credit Heads are not applicable under EB v3.0:

Credit Head
Low Carbon Passive Design
Air-Conditioning Units
Clothes Drying Facilities
Energy Efficient Appliances
Cooling System Efficiency
Air Management System
Best Practice on Energy Use
Energy Management
Energy Benchmarking and System Improvement
Enhancements

5	Energy Use	EU-00	Basic Requirement			
		EU-00-01	Minimum Energy Performance			
	Objective	Encourage the project building operator to monitor and review the energy performance of the building services installation through energy audit.				
	Credit point(s) Attainable	1				
	Credit Requirement	requirements s	for conducting energy audit in accorda tipulated in the Code of Practice for Building ctrical and Mechanical Services Departn	g Energ	y Audit	
	Assessment	been com Code of P	1. Provide an energy audit report confirming that an energy audit has been completed in accordance with the requirements stipulated in the Code of Practice for Building Energy Audit issued by Electrical and Mechanical Services Department, HKSAR Government.			
		2. The energ	y audit report shall meet the following requir	ements	:	
		2.1. Conc	2.1. Conducted within past 5 years from the date of submission;			
		2.2. Endorsed by a Registered Energy Assessor (REA) with REA registration number stated in the report;				
		2.3. Include all elements as stipulated in the Code of Practice for Building Energy Audit issued by Electrical and Mechanical Services Department, HKSAR Government.				
		in the nation location. T this. If suc in the Cod	table to adopt the energy audit requirement onal policy, based on the assessed building' The Applicant shall provide supporting doc ch documentation is not available, requirement le of Practice for Building Energy Audit issue anical Services Department, HKSAR Govern	s geogr umenta ents sti ed by El	aphical tion for pulated ectrical	
	Submittals	Supporting D	ocuments	PA	FA	
		Please provi	de softcopies with filename prefix as he leftmost column below.			
		EU-00-01_00	EB submission form for EU-00-01			
		EU-00-01_01	REA endorsed energy audit report	\checkmark	\checkmark	
		EU-00-01_02	Evidence showing energy audit requirements as stipulated in the national policy, based on the assessed building's geographical location (if applicable)	\checkmark	\checkmark	
	Remarks	. ,	Il Information	of Prac	tice for	

Electrical and Mechanical Services Department, Code of Practice for Building Energy Audit 2024 Edition (EAC 2024) [ONLINE] https://www.emsd.gov.hk/beeo/en/pee/EAC_2024_ENG.pdf [Accessed Jun 2025]

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(b) Related Credit Head(s)

5 Energy Use EU-01 Energy Use Reduction and Control

EU-01-02 Reduction of CO₂ Emissions

Objective Reduce the building energy consumption and consequent carbon emissions to support net zero carbon.

Credit point(s) Attainable 19

Credit Requirement (a) Benchmarking

1 credit point for conducting benchmarking by EMSD Benchmarking Tool "Energy Consumption Indicators and Benchmark" or Energy Star Portfolio Manager for the energy performance of the landlord's controlled area of the project.

(b) Benchmarking Ranking

1 to 4 credit point(s) when the energy performance of the landlord's controlled area of the project achieves the below percentile under EMSD Benchmarking Tool "Energy Consumption Indicators and Benchmark".

Credit Point(s)	Percentile under EMSD Benchmarking Tool
1	40 th
2	30 th
3	20 th
4	10 th

Alternatively,

1 to 4 credit point(s) when the energy performance of the landlord's controlled area of the project achieves the benchmarking results obtained from Energy Star Portfolio Manager.

Credit Point(s)	Percentage of Reduction of Project Energy Use Intensity (EUI) Compared with Median Weather Normalised Source EUI Obtained from Energy Star Portfolio Manager
1	EUI Improvement ≤ 10%
2	10% < EUI Improvement ≤ 30%
3	30% < EUI Improvement ≤ 50%
4	EUI Improvement > 50%

(c) Self-improvement of Energy Utilisation Index

1 to 13 credit point(s) when the annual energy utilisation index (EUI) is reduced in a percentage below compared with that of the past 5 years.

For (1) Benchmarking result $\geq 30^{\text{th}}$ Percentile under EMSD Benchmarking or (2) Percentage of Reduction of Project Source EUI under Energy Star Portfolio Manager $\leq 30\%$ or (3) project only attempting EU-01-02(a):

Credit Point(s)	Percentage of reduction in Annual EUI
1	≥ 2%
2	≥ 3%
3	≥ 5%
4	≥ 7%
5	≥ 10%
6	≥ 13%
7	≥ 17%
8	≥ 21%
9	≥ 25%
10	≥ 29%
11	≥ 34%
12	≥ 39%
13	≥ 45%

For (1) Benchmarking result of 20^{th} Percentile under EMSD Benchmarking / (2) Percentage of Reduction of Project Source EUI under Energy Star Portfolio Manager > 30% and \leq 50%:

Credit Point(s)	Percentage of reduction in Annual EUI
1	≥ 1%
2	≥ 2%
3	≥ 3%
4	≥ 4%
5	≥ 5%
6	≥ 7%
7	≥ 9%
8	≥ 11%
9	≥ 13%
10	≥ 15%
11	≥ 17%
12	≥ 20%
13	≥ 23%

For (1) Benchmarking result of 10th Percentile under EMSD Benchmarking / (2) Percentage of Reduction of Project Source EUI under Energy Star Portfolio Manager > 50%:

Credit Point(s)	Percentage of reduction in Annual EUI
1	≥ 0.5%
2	≥ 1%
3	≥ 2%
4	≥ 3%
5	≥ 4%
6	≥ 5%
7	≥ 6%
8	≥ 7%
9	≥ 8%
10	≥ 9%
11	≥ 10%
12	≥ 11%
13	≥ 12%

(d) Continuous Energy Consumption Reduction Trend

1 credit point when landlord's energy consumption has continuously decreased over the past 3 years.

(a) Benchmarking

- 1. Conduct benchmarking by EMSD Benchmarking Tool "Energy Consumption Indicators and Benchmark" or Energy Star Portfolio Manager for the project building.
- 2. The data used for the benchmarking shall be within the past 12 months from the date of submission.
- 3. Provide screenshot of input and benchmarking result obtained from EMSD or Energy Star Portfolio Manager.

(b) Benchmarking Ranking

- 1. Provide screenshot of input and benchmarking result obtained from EMSD or Energy Star Portfolio Manager.
- 2. Provide evidence for each input of benchmarking.

(c) Self-improvement of Energy Utilisation Index

- Provide summary table with supporting documents such as electricity bills, metering records for the energy consumption of past 1st to 12th months (assessment period) and any 12 months of past 13th to 60th months (baseline period).
- 2. Provide calculation for the percentage of reduction of energy utilisation index of the landlord's controlled area of the assessment period compared with that of baseline period.

Assessment

(d) Continuous Energy Consumption Reduction Trend

1. Provide annual comparison of energy consumption demonstrating continuous reduction over a period of 3 years.

Submittals

(a) Benchmarking

	i ments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
EU-01-02a_00	EB submission form for EU-01-02a	\checkmark	
EU-01-02a_01	Screenshot showing the input parameters for EMSD benchmarking tool/ Energy Star Portfolio Manager	\checkmark	
EU-01-02a_02	Result from EMSD Benchmarking Tool/ Energy Star Portfolio Manager		

(b) Benchmarking Ranking

•	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
EU-01-02b_00	EB submission form for EU-01-02b	\checkmark	\checkmark
EU-01-02b_01	Screenshot showing the input parameters for EMSD benchmarking tool/ Energy Star Portfolio Manager	\checkmark	\checkmark
EU-01-02b_02	Result from EMSD Benchmarking Tool/ Energy Star Portfolio Manager	\checkmark	
EU-01-02b_03	Supporting documents of each input parameter	\checkmark	\checkmark

(c) Self-improvement of Energy Utilisation Index

Supporting Docu	iments	ΡΑ	FA
•	softcopies with filename prefix as		
indicated on the le	aftmost column below.		
EU-01-02c_00	EB submission form for EU-01-02c	\checkmark	\checkmark
EU-01-02c_01	Summary table of energy		
	consumption of baseline and	\checkmark	\checkmark
	assessment period		
EU-01-02c_02	Calculation of percentage of		
	reduction of EUI	•	
EU-01-02c_03	Electricity consumption records of		
	baseline and assessment period	v	v
EU-01-02c_04	Evidence of Internal Floor Area (IFA)	\checkmark	2
	for EUI calculation	v	v

(d) Continuous Energy Consumption Reduction Trend

•	softcopies with filename prefix as aftmost column below.	ΡΑ	FA
EU-01-02d_00	EB submission form for EU-01-02d	\checkmark	\checkmark
EU-01-02d_01	Calculation of annual reduction of energy consumption	\checkmark	
EU-01-02d_02	Energy consumption records of the past 36 months	\checkmark	

Remarks

(a) Additional Information

Electrical and Mechanical Services Department. Energy Consumption Indicators & Benchmarking Tools [ONLINE]

https://ecib.emsd.gov.hk/index.php/en/ [Accessed Jun 2025]

Energy Star. Portfolio Manager Quick Start Guide [ONLINE] https://www.energystar.gov/sites/default/files/2025-01/Portfolio%20Manager%20Quick%20Start%20Guide_December% 202024.pdf [Accessed Jun 2025]

(b) Related Credit Head(s)

5	Energy Use	EU-	01	Energy Use Reduction and Control
		EU-01-03		Peak Electricity Demand Reduction
	Objective			ncy of energy generation and distribution through demand ant and achieve peak demand reduction.
	Credit point(s) Attainable	2		
	Credit Requirement	(a)	Developm	ent of Peak Demand Management Plan
			1 credit po	int for developing a Peak Demand Management Plan.
		(b)	Execution	of Peak Demand Management Plan
			1 credit po	int for executing the Peak Demand Management Plan.
	Assessment	(a)	Developm	ent of Peak Demand Management Plan
				lop Peak Demand Management (PDM) Plan with the nts below:
			1.2 1.3 1.4 1.5 1.5 2. The p building	Identification of condition(s) requiring peak demand response, including but not limited to extreme weather (e.g. ambient temperature is higher than 33 °C); Potential for demand response participation; Strategies for reducing peak demand; Procedures and responses to execute the program measures for adjustment of operation of building systems in response to the potential event(s); Description of end-use systems that will be affected, such as HVAC or lighting, etc., on a stand-alone or integrated basis, during participation in demand response events.
		(b)	Execution	of Peak Demand Management Plan
				de the implementation records of peak demand response gies as stipulated in the PDM Plan.
			perioo that t	de a calculation of the peak demand reduction of the event d compared with the baseline peak demand to demonstrate he peak demand is reduced by adopting peak demand inse strategies.
			of the	aseline peak demand is defined as the average hourly load e event period of the three highest-load days in the 10 ding non-event days.
			progra	demand response shall be made in the form of pre- ammed measures. Reduction made by directly turning off ise system(s) is not eligible for credit attainment.
			EU-0	alternative to the above four (4) assessment criteria under 1-03b, it is acceptable to implement peak demand inse strategies in response to the peak demand

management event scheduled under the PDM Program by the local power company, based on the assessed building's geographical location. The applicant shall only provide evidence showing that the project has joined the PDM Program administered by the local power company and an official record issued by the local power company demonstrating the peak demand reduction during the event period.

Submittals

(a) Development of Peak Demand Management Plan

	iments softcopies with filename prefix as aftmost column below.	ΡΑ	FA
EU-01-03a_00	EB submission form for EU-01-03a	\checkmark	\checkmark
EU-01-03a_01	Peak Demand Management Plan endorsed by building-in-charge/ team lead of building management team or the top management		

(b) Execution of Peak Demand Management Plan

Supporting Docu	PA	FA	
•	softcopies with filename prefix as		
indicated on the le	eftmost column below.		
EU-01-03b_00	EB submission form for EU-01-03b		
EU-01-03b_01	Peak Demand Management Plan		
	endorsed by building-in-charge/ team		
	lead of building management team or		
	the top management		
EU-01-03b_02	Implementation records of peak	-	\checkmark
	demand response strategies		
EU-01-03b_03	Calculation of peak demand	-	
	reduction of PDM event(s)		
EU-01-03b_04	Metering records of the hourly load of		
	the event period on event day and the	-	\checkmark
	10 preceding non-event days		
EU-01-03b_05	Evidence showing that the project		
	has joined the PDM Program by the		
	local power company (if applicable)		
EU-01-03b_06	Official record issued by local power		
	company demonstrating the peak		
	demand reduction during the event	-	
	period in accordance with PDM		
	Program (if applicable)		

Remarks

(a) Additional Information

CLP Power Hong Kong Limited, Peak Demand Management [ONLINE]

https://www.clp.com.hk/en/business/low-carbon-solutions/energymanagement/peak-demand-management [Accessed Jun 2025]

(b) Related Credit Head(s)

5	Energy Use	EU-	01	Energy Use Reduction and Control
		EU-	01-04	Metering and Monitoring
	Objective	eng		g operators to measure, monitor the performance of building vstems, facilitate auditing works and develop improvement vstems.
	Credit point(s) Attainable	6		
	Credit Requirement	(a)	Metering	Provisions for Landlord's Electrical Loads
				point for equipping metering facilities to monitor and collect onsumption data for landlord's electrical loads.
		(b)	Metering	Provisions for Landlord's Individual Electrical Loads
			collect er	edit point(s) for equipping metering facilities to monitor and ergy consumption data for 2 or 4 numbers of the following loads of landlord's controlled systems:
			 3) Coo 4) Con distr 5) Air s 6) Unit serv 7) Mec 8) Ligh 9) Lift a 10) Plun 	er; ler plant; ling tower plant; sumer side chilled water pumps (For building served by ict cooling system); side equipment; ary/ VRV system (For building without chiller plant and not ed by district cooling system); hanical ventilation system (rated power ≥2.5kW); ting installation; and escalator systems; bing and drainage systems; load/ receptable load/ small power.
		(c)	Performa	ance Auditing
			systems	a 3 credit points for equipping performance monitoring to monitor and collect operating performance data for the landlord's controlled systems:
				Landlord's Controlled System
			syste a) b) c)	building served by air-cooled/ water-cooled chiller plant em: Chiller; Chiller plant; Cooling tower plant. matively,
			For building served by district cooling system:	
			a) Consumer side chilled water pumps.	
				de equipment
			3 Mech	nanical ventilation system (rated power ≥2.5kW)

Credit Point(s)	Landlord's Controlled System
1	Any one (1) landlord's controlled system
2	Any two (2) landlord's controlled systems
3	All three (3) landlord's controlled systems

Assessment

(a) Metering Provisions for Landlord's Electrical Loads

1. Provide metering facilities to collect building level energy consumption for landlord's controlled area.

(b) Metering Provisions for Landlord's Individual Electrical Loads

- 1. Provide metering facilities for the following individual installation in landlord's controlled area, where present in the project:
 - 1.1. Energy consumption of each chiller,
 - 1.2. Energy consumption of chiller plant;
 - 1.3. Energy consumption of cooling tower plant;
 - 1.4. Energy consumption of consumer side chilled water pumps (For building served by district cooling system);
 - 1.5. Energy consumption of each equipment in HVAC air-side system (i.e. air handling unit, and primary air unit).
- 2. Provide metering facilities for collecting energy consumption data of the following installations in landlord's controlled area, where present in the project, allowing one single meter for each type of installation:
 - Energy consumption of Unitary/ VRV system (For building without chiller plant and not served by district cooling system);
 - 2.2. Energy consumption of mechanical ventilation system (rated power ≥2.5kW);
 - 2.3. Energy consumption of lighting system;
 - 2.4. Energy consumption of lift and escalator system;
 - 2.5. Energy consumption of plumbing and drainage system;
 - 2.6. Energy consumption of plug load/ receptable load/ small power.

(c) Performance Auditing

1. Provide performance auditing monitoring system for the following systems in landlord's controlled area:

	Landlord's Controlled System						
1.1	For building served by air-cooled/ water-cooled chiller						
	plant system:						
	1.1.1. Chiller;						
	1.1.2. Chiller plant;						
	1.1.3. Cooling tower plant.						
	Alternatively,						
	For building served by district cooling system:						
	1.1.1. Consumer side chilled water pumps.						
1.2	Air side equipment						
1.3	Mechanical ventilation system (rated power ≥2.5kW)						

2. Performance auditing monitoring system covers operating characteristics as summarised as below:

System (if applicable)	Monitoring Parameter
Chiller	 Chilled water supply & return water temperature (°C) Chilled water flow rate (m³/s) Cooling capacity (kW)
Chiller Plant	 Chilled water supply & return water temperature (°C) Chilled water flow rate (m³/s) Cooling capacity (kW)
Cooling tower plant	 Condensing water supply & return water temperature (°C) Condensing water flow rate (m³/s), for variable speed condensing water system only. Ambient temperature (°C) Relative humidity (%)
Consumer side chilled water pumps (For building served by district cooling system)	 Chilled water supply & return water temperature (°C) Chilled water flow rate (m³/s)
Air side equipment - Primary air/ air handling units	 Supply and return air temperature (°C) Fresh air temperature (°C) Fan speed (rpm) / fan motor frequency (Hz) Return air CO₂ concentration (ppm or mg/m³), for demand control system only
Mechanical ventilation system - Carpark ventilation - Mechanical ventilation (≥2.5kW each)	 CO/ Nox concentration level, if applicable Fan speed (rpm) / fan motor frequency (Hz)

3. Monitoring record of the operating performance by means of BMS or handwritten record is acceptable. The monitoring records shall be maintained on a daily basis at minimum.

(a) Metering Provisions for Landlord's Electrical Loads

	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
EU-01-04a_00	EB submission form for EU-01-04a	\checkmark	\checkmark
EU-01-04a_01	Electrical schematics highlighting the metering locations		
EU-01-04a_02	Summary table of metering showing the electrical loads monitored		
EU-01-04a_03	Schematic drawings and point schedule of BMS		
EU-01-04a_04	Catalogue(s) of metering facilities/ BMS	\checkmark	

Submittals

EU-01-04a_05	Sample photos of metering system	-	
EU-01-04a_06	Sample weekly record of the collected energy consumption data of past 12 months	-	\checkmark

(b) Metering Provisions for Landlord's Individual Electrical Loads

•	softcopies with filename prefix as	PA	FA
	eftmost column below.		
EU-01-04b_00	EB submission form for EU-01-04b	\checkmark	
EU-01-04b_01	Electrical schematics highlighting the		
	metering locations		
EU-01-04b_02	Summary table of metering showing		
	the electrical loads monitored	•	
EU-01-04b_03	Schematic drawings and point		
	schedule of BMS	•	•
EU-01-04b_04	Catalogue(s) of metering facilities/		
	BMS		
EU-01-04b_05	Sample photos of metering system	-	
EU-01-04b_06	Sample weekly record of the collected		
	energy consumption data of past 12	-	
	months		

(c) Performance Auditing

•	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
EU-01-04c_00	EB submission form for EU-01-04c		
EU-01-04c_01	Schematic drawings and point schedule of BMS, for system monitored by BMS only.	\checkmark	
EU-01-04c_02	Catalogues of monitoring facilities/ BMS, for system monitored by BMS only.	\checkmark	\checkmark
EU-01-04c_03	Sample weekly record of monitoring facilities showing the logging of operating performance data of past 12 months	-	

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

EU-04-03 Energy Analysis

5	Energy Use	EU-01	Energy Use Reduction and Control
		EU-01-05	Energy Performance Certificate
	Objective		C's Zero-Carbon-Ready Building Certification to support imate Action Plan 2050.
	Credit point(s) Attainable	8 (For buildings with single user) 12 (For buildings with tenant spaces)	
	Credit Requirement	Option 1: For buildings with single user,	
			under the Energy Performance Certificate of the Zero- Building Certification scheme by HKGBC:

2 to 8 credit points when the project achieves the below rating:

Credit Point(s)	Rating under the Energy Performance Certificate	
2	Low	
4	Extra Low	
6	Super Low	
8	Zero-Carbon-Ready	

Alternatively,

Route 2: Percentage Reduction under the Energy Performance Certificate of the Zero-Carbon-Ready Building Certification scheme by HKGBC:

1 to 4 credit point(s) when the project achieves the below rating:

Credit Point(s)	Rating under the Energy Performance Certificate	
1	Level 1 improvement	
2	Level 2 improvement	
3	Level 3 improvement	
4	Level 4 improvement	

Option 2: For buildings with tenant spaces,

Route 1: EUI under the Energy Performance Certificate of the Zero-Carbon-Ready Building Certification scheme by HKGBC:

(a) 2 to 8 credit points when the landlord's controlled area of the project achieves the below rating:

Credit Point(s)	Rating under the Energy Performance Certificate for Landlord's Controlled Area		
2	Low		
4	Extra Low		
6	Super Low		
8	Zero-Carbon-Ready		

(b) 1 to 4 credit point(s) when the whole building's energy consumption of the project achieves the below rating:

Credit Point(s)	Rating under the Energy Performance Certificate for Whole Building	
1	Low	
2	Extra Low	
3	Super Low	
4	Zero-Carbon-Ready	

Alternatively,

Route 2: Percentage Reduction under the Energy Performance Certificate of the Zero-Carbon-Ready Building Certification scheme by HKGBC:

(a) 1 to 4 credit point(s) when the landlord's controlled area of the project achieves the below rating:

Credit Point(s)	Rating under the Energy Performance Certificate for Landlord's Controlled Area	
1	Level 1 improvement	
2	Level 2 improvement	
3	Level 3 improvement	
4	Level 4 improvement	

(b) 1 to 4 credit point(s) when the whole building's energy consumption of the project achieves the below rating:

Credit Point(s)	Rating under the Energy Performance Certificate for Whole Building	
1	Level 1 improvement	
2	Level 2 improvement	
3	Level 3 improvement	
4	Level 4 improvement	

Assessment

Option 1: For buildings with single user,

Route 1: EUI under the Energy Performance Certificate of the Zero-Carbon-Ready Building Certification scheme by HKGBC:

- 1. Apply for the Zero-Carbon-Ready Building Certification and engage an Energy Assessor-ZCRB to conduct an independent assessment.
- 2. Provide the valid Energy Performance Certificate.

Alternatively,

Route 2: Percentage Reduction under the Energy Performance Certificate of the Zero-Carbon-Ready Building Certification scheme by HKGBC:

- 1. Apply for the Zero-Carbon-Ready Building Certification and engage an Energy Assessor-ZCRB to conduct an independent assessment.
- 2. Provide the valid Energy Performance Certificate.

Option 2: For buildings with tenant spaces,

Route 1: EUI under the Energy Performance Certificate of the Zero-Carbon-Ready Building Certification scheme by HKGBC:

- 1. Apply for the Zero-Carbon-Ready Building Certification and engage an Energy Assessor-ZCRB to conduct an independent assessment for whole building and/or landlord portion.
- 2. Provide the valid Energy Performance Certificate.

Alternatively,

Route 2: Percentage Reduction under the Energy Performance Certificate of the Zero-Carbon-Ready Building Certification scheme by HKGBC:

- 1. Apply for the Zero-Carbon-Ready Building Certification and engage an Energy Assessor-ZCRB to conduct an independent assessment for whole building and/or landlord portion.
- 2. Provide the valid Energy Performance Certificate.

Supporting Docu	ments	PA	FA
Please provide	softcopies with filename prefix as		
indicated on the le	ftmost column below.		
EU-01-05_00	EB submission form for EU-01-05		
Option 1: For bui	Idings with single user		
	der the Energy Performance Certificate ilding Certification scheme by HKGBC	e of the	Zero
EU-01-05_01	Valid Energy Performance Certificate issued by HKGBC	-	\checkmark
Route 2: Perce	ntage Reduction under the Energy	Perfor	manc
Certificate of the 2	Zero-Carbon-Ready Building Certification	on sche	me b
HKGBC			
EU-01-05_02	Valid Energy Performance Certificate issued by HKGBC	-	\checkmark
Option 2: For bui	Idings with tenant spaces		
Route 1: EUI unde	er the Energy Performance Certificate o	f the Ze	ro-
Carbon-Ready Bu	ilding Certification scheme by HKGBC		
EU-01-05_03	Valid Energy Performance Certificate issued by HKGBC	-	\checkmark
Route 2: Perce	ntage Reduction under the Energy	Perfor	manc
Certificate of the 2	Zero-Carbon-Ready Building Certification	on sche	me b
HKGBC			
EU-01-05_04	Valid Energy Performance Certificate issued by HKGBC	-	

Remarks

Submittals

(a) Additional Information

Hong Kong Green Building Council Limited. Zero-Carbon-Ready Building Certification Scheme [ONLINE] https://zcrbc.hkgbc.org.hk/ [Accessed Jun 2025]

(b) Related Credit Head(s)

 5 Energy Use
 EU-02
 Renewable and Alternative Energy Generation

 EU-02-01
 Renewable and Alternative Energy Systems

Encourage the wider application of renewable energy sources in buildings.

Credit point(s) Attainable 15

Credit Requirement

Objective

(a) On-site Renewable Energy Application

1 to 10 credit point(s) for using on-site renewable energy systems to offset annual building energy consumption of landlord's controlled area.

Credit Point(s)	Percentage of Annual Building Energy Consumption of Landlord's Controlled Area		
1	0.2%		
2	0.4%		
3	0.6%		
4	0.8%		
5	1.0%		
6	1.2%		
7	1.4%		
8	1.6%		
9	1.8%		
10	2.0%		

(b) Off-site Green Power

1 to 5 credit point(s) for purchasing Energy Attribute Certificate (EAC) and/ or establishing Power Purchase Agreement (PPA) to offset annual landlord energy consumption.

For purchasing the EAC,

Credit Point(s)	Percentage of Annual Building Energy Consumption of Landlord's Controlled Area		
1	10%		
2	20%		
3	40%		
4	70%		
5	100%		

Alternatively,

For establishing PPA,

Credit Point(s)	Percentage of Annual Building Energy Consumption of Landlord's Controlled Area		
1	5%		
2	10%		
3	20%		
4	35%		
5	50%		

Assessment

(a) On-site Renewable Energy Application

1. Calculate the percentage of annual energy generation obtained from the on-site renewable energy source(s) with the annual landlord energy consumption.

Annual energy generated by on-site renewable energy systems (kWh) Annual landlord energy consumption (kWh) × 100%

- To demonstrate the amount of energy generation from renewable energy sources, endorsed design brief shall be provided for Provisional Assessment, while measurement and/ or actual energy generation record shall be provided for Final Assessment;
- 3. The design brief shall be endorsed by the top management of building owner/ building management company.
- 4. Provide organisation chart to demonstrate the line of authority of the building-in-charge/ team lead of building management team.
- 5. Provide electricity bills as energy generation record if the project applied for Feed-in Tariff Scheme;
- 6. Provide monthly meter record of renewable energy system if the project does not apply for Feed-in Tariff Scheme;
- 7. The calculation shall be referenced to the energy generation/ consumption in past 12 months from the date of submission.

(b) Off-site Green Power

For purchasing the EAC,

1. Calculate the percentage of annual energy purchased from EAC (either renewable energy certificate (REC) or green electricity certificate (GEC)) with the annual landlord energy consumption.

 $\frac{\text{Renewable energy purchased from the Authority (kWh)}}{\text{Annual landlord energy consumption (kWh)}} \times 100\%$

- 2. The calculation shall be referenced to the energy consumption in past 12 months from the date of submission.
- 3. Minimum tenor of EAC purchasing contract shall be 3 years as a long-term commitment to net-zero ready operations.

- 4. Provide undertaking letter from the top management of building owner/building management company showing the commitment of purchasing EAC for consecutive 3 years in minimum, if EAC purchasing contract is not available.
- 5. Provide undertaking letter from top management of building owner/ building management company detailing the breakdown of purchased renewable energy for the project building if the purchased EAC caters to multiple buildings owned by the same building owner.
- 6. Provide organisation chart to demonstrate the line of authority of the building-in-charge/ team lead of building management team.

Alternatively,

For establishing PPA,

1. Calculate the percentage of annual energy purchased from PPA with the annual landlord energy consumption.

 $\frac{\text{Renewable energy purchased from the Authority (kWh)}}{\text{Annual landlord energy consumption (kWh)}} \times 100\%$

- 2. The calculation shall be referenced to the energy consumption in past 12 months from the date of submission.
- 3. Minimum tenor of PPA contract shall be 3 years as a long-term commitment to net-zero ready operations.
- 4. Provide undertaking letter from the top management of building owner/ building management company detailing the breakdown of purchased renewable energy for the project building if the PPA caters to multiple buildings owned by the same building owner.
- 5. Provide organisation chart to demonstrate the line of authority of the building-in-charge/ team lead of building management team.

Submittals

(a) On-site Renewable Energy Application

Supporting Documents Please provide softcopies with filename prefix as indicated on the leftmost column below.			FA
EU-02-01a_00	EB submission form for EU-02-01a	\checkmark	\checkmark
EU-02-01a_01 EU-02-01a_02	Calculation for percentage of annual on-site renewable energy generation and annual electricity consumption of past 12 months Endorsed design brief showing	√	
EU-02-01a 03	annual energy generation by each on-site renewable energy system Organisation chart	√ √	-
EU-02-01a_04	Electrical bills and/ or metering records for annual on-site renewable energy generation and annual electricity consumption	-	

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EU-02-01a_05	Manufacturer specification/ catalogue of the renewable energy system(s)	\checkmark	\checkmark
EU-02-01a_06	As-built drawings of the renewable energy system(s)	\checkmark	\checkmark
EU-02-01a_07	On-site photos of the renewable energy system(s)	-	\checkmark

(b) Off-site Green Power

•	softcopies with filename prefix as eftmost column below.	PA	FA
EU-02-01b_00	EB submission form for EU-02-01b	\checkmark	\checkmark
EU-02-01b_01	Calculation for percentage of renewable energy by purchased EAC and annual electricity consumption	\checkmark	\checkmark
EU-02-01b_02	EAC issued by the Authority	-	\checkmark
EU-02-01b_03	Duly Signed EAC purchasing contract [or] Undertaking letter from the top management of building owner/ building management company for EAC purchasing commitment	-	V
EU-02-01b_04	Electrical bills and/ or metering records for annual electricity consumption	-	\checkmark
EU-02-01b-05	Undertaking letter from the top management of building owner/ building management company detailing the breakdown of purchased renewable energy (For project where the purchased EAC caters to multiple buildings)	-	\checkmark
EU-02-01b_06	Organisation chart	-	
Alternative path	1 -	1	1
EU-02-01b_07	Calculation for percentage of renewable energy purchased by PPA and annual electricity consumption		\checkmark
EU-02-01b_08	Duly Signed PPA	-	\checkmark
EU-02-01b_09	Electrical bills and/ or metering records for annual electricity consumption	-	\checkmark
EU-02-01b-10 EU-02-01b_11	Undertaking letter from the top management of building owner/ building management company detailing the breakdown of purchased renewable energy (For project where PPA caters to multiple buildings) Organisation chart	-	1

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

5	Energy Use	EU-04		Energy Management and Analysis
		EU-	04-03	Energy Analysis
	Objective		eview the en	ling operators to make good use of the monitoring facilities ergy and/ or carbon performance of the building in regular
	Credit point(s) Attainable			with central A/C system); with de-centralised A/C system only)
	Credit Requirement	(a)	Building E	Energy Consumption
				oint for providing total building energy consumption for ea for the past 12 months.
		(b)	Energy Br	eakdown for air-conditioning system
			Option 1: I	For buildings with central A/C system
			break area	3 credit point(s) for providing energy consumption kdown of water-side equipment for landlord's controlled for the past 12 / 24 / 36 months for building served by air- ed/ water-cooled air-conditioning system:
			b.	Chiller plant; Chiller; Cooling tower plant (if applicable).
			Alter	natively,
			cons	3 credit point(s) for providing energy consumption of umer side chilled water pumps for the past 12 / 24 / 36 hs for building served by district cooling system.
			side	3 credit point(s) for providing energy consumption of air- equipment (i.e. primary air unit, air handling units, etc.) for ord area for the past 12 / 24 / 36 months.
			Option 2: I	For buildings with de-centralised A/C system only
				edit point(s) for providing energy consumption of unitary/ em for landlord area for the past 12 / 24 / 36 months.
		(c)	Energy Br	eakdown for other system
			break	3 credit point(s) for providing energy consumption down of any two of the following systems for landlord's blled area for the past 12 / 24 / 36 months:
			b. 1 c. 1	Lighting system; Mechanical ventilation system; Lift and escalator systems; Plumbing and drainage systems.

Assessment

(d) Analysis of Building Energy Consumption

1 credit point for conducting annual review and analysis of energy consumption.

(e) Carbon Audit

1 credit point for conducting carbon audit to measure all Greenhouse Gas emissions in Scopes 1 and 2, plus water and paper use under Scope 3, and at least one additional category under Scope 3, in accordance with The Greenhouse Gas Protocol.

(a) Building Energy Consumption

- 1. Provide energy consumption records for landlord's controlled area for the past 12 months.
- 2. Provide a summary table of monthly energy consumption for the past 12 months.

(b) Energy Breakdown for air-conditioning system

1. Provide energy consumption records for different electrical loads for past 12 / 24 / 36 months:

Option 1: For buildings with central A/C system

- (1) Water-side A/C system
 - a. Chiller (only applicable for buildings served by aircooled/ water-cooled air-conditioning system)
 - b. Chiller plant (only applicable for buildings served by aircooled/ water-cooled air-conditioning system)
 - c. Cooling tower plant (only applicable for buildings with water-cooled air-conditioning system)
 - d. Consumer side chilled water pumps (only applicable for building served by district cooling system)
- (2) Air-side A/C system
 - a. Primary air unit
 - b. Air handling unit

Option 2: For buildings with de-centralised A/C system only

- a. Unitary/ VRV A/C systems (only applicable for buildings with de-centralised A/C system)
- 2. Provide a summary table of the monthly energy breakdown for the past 12 / 24 / 36 months.

(c) Energy Breakdown for other system

1. Provide energy consumption records for different electrical loads for past 12 / 24 / 36 months:

Other systems

- a. Lighting system
- b. Mechanical ventilation system
- c. Lift and escalator systems
- d. Plumbing and drainage systems
- 2. Provide a summary table of the monthly energy breakdown for the past 12 / 24 / 36 months.

(d) Analysis of Building Energy Consumption

- 1. Provide report demonstrating energy consumption is reviewed in annual basis. The report shall include:
 - 1.1. Monthly energy consumption summary table and chart for the past 24 months, up to 6-month from the issue date of report;
 - 1.2. Analysis of annual energy consumption trend and pattern of different electrical loads attempted in part (b);
 - 1.3. Recommendation and action plan for improving energy performance of building, if required.
- 2. The report shall be prepared within 12 months from the date of submission.

(e) Carbon Audit

- 1. Provide a carbon audit or Greenhouse Gas (GHG) emission audit report in accordance with the Greenhouse Gas Protocol.
- 2. The carbon audit report shall meet the following requirements:
 - 2.1. Carbon audit was conducted within 3 years from the date of submission;
 - 2.2. Endorsed by a qualified person (e.g. Certified Carbon Auditor, or equivalent);
 - 2.3. Include all emissions in Scopes 1 and 2;
 - 2.4. GHG emissions due to water use shall consider the electricity used for fresh water and sewage processing;
 - 2.5. Apart from water and paper use, 1 additional category of any one of the Scope 3 emissions in accordance with the GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard shall be included in Scope 3 calculation;
 - 2.6. Include evidence of competency of qualified person (e.g. certificate of Certified Carbon Auditor).

Submittals

(a) Building Energy Consumption

•	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
EU-04-03a_00	EB submission form for EU-04-03a	\checkmark	\checkmark
EU-04-03a_01	Energy consumption data records for landlord's controlled area for the past 12 months from the date of submission	-	
EU-04-03a_02^	Summary table of monthly energy consumption for landlord's controlled area	-	

(b) Energy Breakdown for air-conditioning system

•	iments softcopies with filename prefix as aftmost column below.	ΡΑ	FA
EU-04-03b_00	EB submission form for EU-04-03b	\checkmark	\checkmark
EU-04-03b_01	Energy consumption data records of breakdown for electrical loads for the past 12 / 24 / 36 months from the date of submission	-	
EU-04-03b_02^	Summary table of energy breakdown for electrical loads for landlord's controlled area	-	

(c) Energy Breakdown for other system

•	i ments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
EU-04-03c_00	EB submission form for EU-04-03c	\checkmark	\checkmark
EU-04-03c_01	Energy consumption data records of breakdown for electrical loads for the past 12 / 24 / 36 months from the date of submission	-	
EU-04-03c_02^	Summary table of energy breakdown for electrical loads for landlord's controlled area	-	

(d) Analysis of Building Energy Consumption

	iments softcopies with filename prefix as aftmost column below.	PA	FA
EU-04-03d_00	EB submission form for EU-04-03d		
EU-04-03d_01	Review report of building energy consumption issued within 12 months from the date of submission	-	\checkmark

(e) Carbon Audit

	ments softcopies with filename prefix as aftmost column below.	ΡΑ	FA
EU-04-03e_00	EB submission form for EU-04-03e	\checkmark	
EU-04-03e_01	Carbon audit report endorsed by qualified person		

Remarks

(a) Additional Information

Electrical and Mechanical Services Department, Guidelines to Account for and Report on Greenhouse Gas Emissions and Removals for Buildings (Commercial, Residential or Institutional Purposes) in Hong Kong.

The World Business Council for Sustainable Development and Word Resources Institute, The Greenhouse Gas Protocol.

GHG Protocol, Corporate Value Chain (Scope 3) Accounting and Reporting Standard.

(b) Related Credit Head(s)

EU-01-04 Metering and Monitoring

- 5 Energy Use EU-04 Energy Management and Analysis
 - EU-04-04 Retro-commissioning (RCx)
 - **Objective** Promote energy saving through a systematic process to identify operational improvements to enhance building energy efficiency.

Credit point(s) Attainable 11

Credit Requirement (a) Planning Stage

1 credit point to develop retro-commissioning plan for systems.

(b) Investigation Stage

1 credit point to identify and select energy saving opportunities.

(c) Implementation Stage

Maximum 6 credit points for implementing the identified energy saving opportunities and conducting measurement and verification, preparing measurement and verification report and developing a retro-commissioning final report for the following applicable system(s):

Credit Point	Active System(s)
1	Chilled water plant (For building served by chiller plant system) or
	Consumer side chilled water pumps (For building served by district cooling system)
1	Heat rejection plant
1	Air-side equipment of air conditioning system
1	Central hot water pump
1	Electrical system (including lighting system)
1	Lift and escalator installation

Credit Point	Passive System(s)
1	Façade system
1	Building roof

1 credit point for implementing identified energy saving opportunities for three (3) or more systems.

(d) Ongoing Commissioning Plan

1 credit point to develop an ongoing commissioning plan.

(e) Ongoing Commissioning Implementation

1 credit point to carry out ongoing commissioning in accordance with ongoing commissioning plan.

Assessment

(a) Planning Stage

- 1. Develop a RCx plan with the following contents in minimum:
 - 1.1. General description of the systems identified;
 - 1.2. Scope of RCx;
 - 1.3. Description of RCx team with their roles and responsibilities;
 - 1.4. Master programme of RCx;
 - 1.5. Observation from the initial walk-through and interview of O&M staff/ building operators;
 - 1.6. Review of energy performance of the building;
 - 1.7. Initial analysis of systems below in minimum:
 - 1.7.1 HVAC system, including water side and air side equipment;
 - 1.7.2 Lighting system;
 - 1.7.3 Lift & escalator system;
 - 1.7.4 Façade system;
 - 1.7.5 Building roof.
 - 1.8. Findings in planning stage.
- 2. The RCx plan shall be endorsed by a RCx Professional.
- 3. The finalised RCx plan shall be within the past 5 years from the date of submission.

(b) Investigation Stage

- 1. Provide a RCx investigation report with the following contents in minimum:
 - 1.1. Detail analysis of systems with the trend logged operational data;
 - 1.2. Identification of potential energy saving opportunities (ESOs);
 - 1.3. Proposed measurement and verification (M&V) methods for the proposed ESOs;
 - 1.4. List of selected ESO(s).
- 2. The RCx investigation report shall be endorsed by a RCx Professional.
- 3. The finalised RCx investigation report shall be within the past 5 years from the date of submission.

(c) Implementation Stage

- 1. Implement the selected ESO(s) identified in investigation stage for at least one of the following system(s):
 - 1.1. Chilled water plant (For building served by chiller plant system) or consumer side chilled water pumps (For building served by district cooling system);
 - 1.2. Heat rejection plant;
 - 1.3. Air-side equipment of air conditioning system;
 - 1.4. Central hot water pump;
 - 1.5. Electrical system (including lighting system);
 - 1.6. Lift and escalator installation;
 - 1.7. Façade system;
 - 1.8. Building roof.

- 2. Provide implementation records of each selected ESO including:
 - 2.1. Purchase records/ work order of the improvement works, if applicable;
 - 2.2. On-site photo records;
 - 2.3. Testing & commissioning records.
- 3. Perform measurement and verification of energy saving performance as agreed and reported in RCx investigation report for each implemented ESO. The M&V report shall be prepared with the following contents:
 - 3.1 List of implemented ESO(s);
 - 3.2 ESO(s) that were planned but not implemented;
 - 3.3 Changes in implemented ESOs as per original plans;
 - 3.4 Documentation of facility adjustments;
 - 3.5 Energy performance or energy improvement results.
- 4. The implementation record shall be within the past 5 years from the date of submission.
- 5. Provide a RCx final report with the following contents in minimum:
 - 5.1. Executive Summary;
 - 5.2. Current facility requirement;
 - 5.3. The findings log with descriptions of the implemented measures;
 - 5.4. Updated savings estimates and actual improvement costs;
 - 5.5. The Central Control & Monitoring System (CCMS) trending plan and data logger diagnostic/monitoring plan;
 - 5.6. All completed equipment and system investigation tests and results;
 - 5.7. Recommended frequency for re-commissioning;
 - 5.8. Complete documentation of revised or new control sequences, if any;
 - 5.9. Recommendations for maintaining the new improvements;
 - 5.10. Training Summary including training materials;
 - 5.11.A list of capital improvements recommended for further investigation.
- RCx M&V report and final report shall be endorsed by a RCx Professional.
- 7. The finalised RCx M&V report and final report shall be within the past 5 years from the date of submission.

(d) Ongoing Commissioning Plan

- 1. Develop an ongoing commissioning plan with the following contents in minimum:
 - 1.1. Roles and responsibilities;
 - 1.2. Policies and procedures for updating building documentation;
 - 1.3. Requirement for tracking energy and system performance;
 - 1.4. Collection of operational data for continuous energy use analysis;
 - 1.5. Recommendation of periodically re-commissioning of the building systems.

- 2. On-going commissioning plan shall be endorsed by a RCx Professional.
- 3. The finalised on-going commissioning plan shall be within the past 5 years from the date of submission.

(e) Ongoing Commissioning Implementation

- 1. Carry out on-going commissioning in accordance with the ongoing commissioning plan. The implementation records may include:
 - 1.1 Energy and system performance record and operational data;
 - 1.2 Review/ inspection report of system performance;
 - 1.3 On-site photo records of re-commissioning;
 - 1.4 Rectification records when the energy performance is not satisfactory as per on-going commissioning plan.

Submittals

(a) Planning Stage

•	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
EU-04-04a_00	EB submission form for EU-04-04a	\checkmark	\checkmark
EU-04-04a_01	RCx plan endorsed by RCx Professional		
EU-04-04a_02	Certificate of RCx Professional [or] Screenshot of HKGBC RCx Directory	\checkmark	

(b) Investigation Stage

	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
EU-04-04b_00	EB submission form for EU-04-04b	\checkmark	\checkmark
EU-04-04b_01	RCx investigation report endorsed by RCx Professional	-	\checkmark
EU-04-04b_02	Certificate of RCx Professional [or] Screenshot of HKGBC RCx Directory	-	\checkmark

(c) Implementation Stage

•	iments softcopies with filename prefix as eftmost column below.	PA	FA
EU-04-04c_00	EB submission form for EU-04-04c	\checkmark	
EU-04-04c_01	RCx investigation report endorsed by RCx Professional	-	
EU-04-04c_02	Implementation records of the energy saving opportunities	-	\checkmark

EU-04-04c_03	Measurement and verification records of the implemented energy saving opportunities	-	\checkmark
EU-04-04c_04	RCx measurement and verification report endorsed by RCx Professional	-	\checkmark
EU-04-04c_05	RCx final report endorsed by RCx Professional	-	\checkmark
EU-04-04c_06	Certificate of RCx Professional [or] Screenshot of HKGBC RCx Directory	-	

(d) Ongoing Commissioning Plan

•	iments softcopies with filename prefix as aftmost column below.	ΡΑ	FA
EU-04-04d_00	EB submission form for EU-04-04d		
EU-04-04d_01	On-going commissioning plan endorsed by RCx Professional		
EU-04-04d_02	Certificate of RCx Professional [or] Screenshot of HKGBC RCx Directory		

(e) Ongoing Commissioning Implementation

Supporting Documents Please provide softcopies with filename prefix as indicated on the leftmost column below.		ΡΑ	FA
EU-04-04e_00	EB submission form for EU-04-04e	\checkmark	
EU-04-04e_01	On-going commissioning plan endorsed by RCx Professional	\checkmark	
EU-04-04e_02	Recordsdemonstratingimplementation in accordance withthe on-going commissioning plan	-	

Remarks

(a) Additional Information

Electrical and Mechanical Services Department. Technical Guidelines on Retro-commissioning [ONLINE] https://www.energysaving.gov.hk/filemanager/template/common/pdf/ rcx/EMSD-TG-RCx-Main-Content-Eng.pdf [Accessed Jun 2025]

(b) Related Credit Head(s)

6. Water Use Water is known to be in scarce supply in many parts of the world. Globally, water storage is already a major issue. International cooperation is essential in tackling the global water shortage problem. Sharing best practices, technologies, and resources can help countries facing water scarcity find innovative solutions and work towards sustainable water management.

The following Credit Heads are not applicable under EB v3.0:

Credit Code	Credit Head
WU-00-01	Minimum Water Saving Performance
WU-01-03	Water Efficient Appliances
WU-01-05	Twin Tank System
WU-01-06	Cooling Tower Water
WU-04-03	Water Quality Survey

6	Water Use	WU-01	Water Conservation		
		WU-01-01	Use of Water Efficient Flow Devices		
	Objective		sumption of fresh water through the applic at have proven performance and reliability		water
	Credit point(s) Attainable	2			
	Credit Requirement	shower heads for	nt(s) when 80% or 100% of all installed w or bathing (if any) are certified with W e (WELS) Grade 1 or equipped with WELS	ater Eff	iciency
	Assessment	shower hea control of th with WELS	e that at least 80% or 100% of all installed ds for bathing (if any) installed at the locat e landlord are certified with WELS Grade Grade 1 flow controllers. for cleansing and/ or irrigation are e	tions un 1 or eq	der the uipped
	Submittals	Supporting Do	oumonto	PA	FA
	Sublinitials		e softcopies with filename prefix as e leftmost column below.		FA
		WU-01-01_00	BEAM Plus EB submission form for WU-01-01	\checkmark	\checkmark
		WU-01-01_01	Schedule and/ or calculation of water taps and shower heads for bathing (if any) installed at the locations under the control of the landlord, indicating if the model of water taps and shower heads for bathing are certified with WELS Grade 1 or equipped with WELS Grade 1 flow controllers	V	V
		WU-01-01_02	Manufacturer's specification or catalogues of water taps and shower heads for bathing (if any) with WELS certificate [or] Manufacturer's specification or catalogues of flow controllers with WELS certificate	\checkmark	V
		WU-01-01_03	On-site photographs of the water efficient flow devices	-	\checkmark

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

6	Water Use	WU	-01	Water Conservation
		WU	·01-02	Water Efficient Irrigation
	Objective	Red	uce the relia	ance on fresh water for irrigation.
	Credit point(s) Attainable	2		
	Credit Requirement	(a)	Smart Irrig	gation
			1 credit poi system for	int for demonstrating the use of smart irrigation technology/ irrigation.
		(b)	Water Cor	nsumption Reduction by Irrigation Water
				bint for demonstrating at least 10% of reduction in fresh sumption for irrigation in the landlord-controlled area over 6 months.
	Assessment	(a)	Smart Irriç	gation
			for irri Iandlo	onstrate that smart irrigation technology/ system is adopted igation of soft landscape area that under the control of the ord by providing plumbing schematic diagrams and layout ngs to illustrate the irrigation system.
			deterr soil m	smart irrigation technology/ system shall be capable to mine the irrigation need of the landscape using weather or noisture data and automatically adjust the use of irrigation based on the identified need.
		(b)	Water Cor	nsumption Reduction by Irrigation Water
			usage meteri contro for irri	applicant shall demonstrate a reduction of 10% in annual of fresh water for irrigation, by comparing the water bill/ ing data for irrigation water consumption in landlord- olled area. The numerator shall be the water consumption gation of the past 12 months, while the denominator could y years within the past 36 months.
		(1 –	Current yea	ar annual landlord irrigation water consumption (m^3) ar annual landlord irrigation water consumption (m^3) x 100%
				Applicant shall compute the comparison of water mption using the water bills or metering data. Standard

. The Applicant shall compute the comparison of water consumption using the water bills or metering data. Standard data log sheet endorsed by building-in-charge/ team lead of building management team is also acceptable.

(a) Smart Irrigation

Supporting Docu Please provide indicated on the le	ΡΑ	FA	
WU-01-02a_00	EB submission form for WU-01-02a	\checkmark	\checkmark
WU-01-02a_01	Schematic and layout drawings illustrating the irrigation system		
WU-01-02a_02	Narrative description for smart irrigation technology/ system adopted	\checkmark	
WU-01-02a_03	Specification/ catalogues of the smart irrigation technology/ system	\checkmark	
WU-01-02a_04	On-site photographs of the soft landscape area and smart irrigation technology/ system	-	

(b) Water Consumption Reduction by Irrigation Water

Supporting Docu	iments	PA	FA
Please provide	softcopies with filename prefix as		
indicated on the le	eftmost column below.		
WU-01-02b_00	EB submission form for WU-01-02b	\checkmark	
WU-01-02b_01	Schematic and layout drawings		
	illustrating the irrigation system	v	v
WU-01-02b_02	Calculation for annual irrigation water		2
	consumption	v	v
WU-01-02b_03	Water bills/ metering data for annual		
	irrigation water consumption		
	[or]	\checkmark	\checkmark
	Endorsed data log sheet for annual		
	irrigation water consumption		

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

WU-03-01 Water Recycling

WU-04-02 Freshwater Consumption Monitoring and Reduction

6	Water Use	WU-01	Water Conservation		
		WU-01-04	Water Leakage Detection		
	Objective	Identify water leal work.	kage once detected for the arrangement o	f mainte	nance
	Credit point(s) Attainable	1			
	Credit Requirement		r installing water leakage detection systemater tank and pump rooms.	stem(s)	in all
	Assessment	 in all munici water supply flushing), cle conditioning water cooling 2. Water tank a 	e that water leakage detection system(s) is pal potable water tank and pump rooms v system, flushing water system (if using t eansing water system, irrigation water sy system (e.g. make-up water tanks and p g towers). and pump rooms serving only non-potable es system are not assessed.	s serving fresh wa /stem, a umps fo	g fresh ater for and air or fresh
		pumps shall4. The detection operator or b	and pump rooms which have multiple wate have at least one water leakage detection on system(s) shall be capable to automat building management team and to identify on leakage occurs.	i system ically al	n. Iert the
	Submittals		cuments softcopies with filename prefix as leftmost column below.	PA	FA
		WU-01-04_00	EB submission form for WU-01-04		
		WU-01-04_01	Plumbing schematic drawing(s) and drawings of water leakage detection systems (e.g. control schematic, BMS drawings) demonstrating that all eligible water tanks and/ or pump room(s) are provided with water leakage detection devices as well as demonstrating the capability of automatically alerting function towards the operator/ security guard to identify the room with water leakage when water leakage occurs	V	
		WU-01-04_02	Equipment catalogues of the water leakage detectors	\checkmark	\checkmark
		WU-01-04_03	On-site photographs of the water leakage detectors	-	

Remarks

(a) Additional Information

(b) Related Credit Head(s)

6	Water Use	WU	-02	Effluent				
		WU-	02-01	Effluent Discharge to Foul Sewers				
	Objective			umes of sewage discharged from built on municipal sewage supply and treatme				
	Credit point(s) Attainable	2						
	Credit Requirement	(a)	Water Close	ets				
				nt for demonstrating all water closets are ency Labelling Scheme (WELS) Grade 1.	dual flus	sh with		
		(b)	Urinals					
				t for demonstrating all urinals are sensor ty abelling Scheme (WELS) Grade 1.	pes with	Water		
	Assessment	(a) Water Clos		osets				
				nstrate that all water closets installed at he control of the landlord are dual flush with				
				flush water closets with WELS Grade 1 are ible toilets.	e accept	able in		
		(b)	Urinals					
				estrate that all installed urinals at the locat of the landlord are sensor types with WEL				
	Submittals	(a)	Water Close	ets				
		Ple	•	cuments e softcopies with filename prefix as e leftmost column below.	PA	FA		
			J-02-01a_00	EB submission form for WU-02-01a				
		W	J-02-01a_01	Schedule of water closets installed at the locations under the control of the landlord	\checkmark	\checkmark		
			J-02-01a_02	Manufacturer's specification or catalogues of water closets with WELS certificate		\checkmark		
		W	J-02-01a_03	On-site photographs of the water closets	-	\checkmark		

(b) Urinals

Supporting Docu Please provide indicated on the le	PA	FA	
WU-02-01b_00	EB submission form for WU-02-01b	\checkmark	
WU-02-01b_01	Schedule of urinals installed at the locations under the control of the landlord	\checkmark	\checkmark
WU-02-01b_02	Manufacturer's specification or catalogues of urinals with WELS certificate		
WU-02-01b_03	On-site photographs of the urinals	-	

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

6	Water Use	WU-03		Water Harvesting and Recycling
		WU-	03-01	Water Recycling
	Objective			narvesting of rainwater and the recycling of grey water to umption of fresh water.
	Credit point(s) Attainable	4		
	Credit Requirement	(a)	Water Rec	ycling System(s) – Feasibility
				nt for conducting feasibility study to evaluate the potential water recycling system(s).
		(b)	Water Rec	ycling System(s) – Implementation
			1 credit poi	nt for the application of water recycling system(s).
		(c)	Water Con	sumption Reduction by Recycled Water
			harvesting,	t point(s) for demonstrating the annual amount of rainwater grey and/ or black water recycling is at least 2.5% or 5% annual fresh water consumption.
	Assessment	(a)	Water Rec	ycling System(s) – Feasibility
			1. Water	Recycling Feasibility Study
			water no ob of rec	act a feasibility study to evaluate the potential of installing recycling system(s). Note that the feasibility study imposes ligation for implementation but encourages consideration ycled water harnessing. The feasibility study report shall e the following:
			1.1. Backg	Iround
			1.1.2. 1.1.3.	Potential catchment of rainwater, grey and/ or black water; Seasonal variations of collection of rainwater, grey and/ or black water from potential catchment; Potential use of recycled water; Relevant quality standards for recycled water.
			1.2.1. 1.2.2.	ical considerations of water recycling system(s) Description of the proposed system(s); Expected annual yield of recycled water; Site constraint identified.
			1.3.1. 1.3.2. 1.3.3.	omics of water recycling system(s) Upfront installation costs; Anticipated maintenance cost; Anticipated cost saving; Payback period.
			1.4. Concl	usions
				Conclude whether the harnessing of recycled water is feasible for the project; Recommendation to refine the water recycling system(s) when feasible (if any).

2. Where compliance with part (b) has been demonstrated, the feasibility study under part (a) is not required, and one credit under part (a) shall be achieved.

(b) Water Recycling System(s) – Implementation

1. Demonstrate the application of water recycling system(s) with schematic diagrams and layouts showing the design and provision of recycling system and on-site photos.

(c) Water Consumption Reduction by Recycled Water

1. Demonstrate that the potable water saving by the water recycling system is at least 2.5% or 5% or more of the total annual landlord fresh water consumption. Both numerator and denominator shall be data of the past 12 months.

 $\frac{\text{Annual recycled water consumption (m}^3)}{\text{Total annual landlord fresh water consumption (m}^3)} \ge 100\%$

- 2. The Applicant shall compute the annual landlord fresh water consumption in the potable water saving calculation by the water bills or metering data. Standard data log sheet endorsed by building-in-charge/ team lead of building management team is also acceptable.
- 3. The annual recycled water consumption can be determined by the meter reading of amount of harvested rainwater, recycled grey and/ or black water consumption or by estimation of the annual yield of recycled water.

(a) Water Recycling System(s) – Feasibility

Supporting DocumentsPPlease provide softcopies with filename prefix asindicated on the leftmost column below.						
WU-03-01a_00	EB submission form for WU-03-01a					
WU-03-01a_01	Feasibility study report	\checkmark				

(b) Water Recycling System(s) – Implementation

Supporting Docur Please provide s indicated on the lef	ΡΑ	FA	
WU-03-01b_00	EB submission form for WU-03-01b	\checkmark	\checkmark
WU-03-01b_01	Plumbing and/ or drainage schematic and layout drawings of the water recycling system(s)	\checkmark	
WU-03-01b_02	On-site photographs of the water recycling system(s)	\checkmark	\checkmark

Supporting Docu	Iments	PA	FA
Please provide	softcopies with filename prefix as		
indicated on the le	eftmost column below.		
WU-03-01c_00	EB submission form for WU-03-01c	\checkmark	\checkmark
WU-03-01c_01	Plumbing and/ or drainage schematic and layout drawings of the water recycling system(s)		
WU-03-01c_02	Calculation on the potable water saving	\checkmark	
WU-03-01c_03	Water bills/ metering data for total annual fresh water consumption [or] Endorsed standard data log sheet for total annual fresh water consumption	\checkmark	
WU-03-01c_04	Endorsed standard data log sheet for annual recycled water consumption [or] Estimation of the annual yield of recycled water		

(c) Water Consumption Reduction by Recycled Water

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

WU-01-02 Water Efficient Irrigation

WU-04-02 Freshwater Consumption Monitoring and Reduction

6	Water Use	WU-04		Water Management
		WU	04-01	Smart Water Metering
	Objective			operators to measure, monitor and develop measures for r consumption performance of the building.
	Credit point(s) Attainable	2		
	Credit Requirement	(a)	Smart Wa	ter Metering – Feasibility
				int for conducting feasibility study of installing smart water or monitor the total fresh water consumption for the building.
		(b)	Smart Wa	ter Metering – Implementation
				int for demonstrating the provision of smart water meter(s) the total fresh water consumption for the building.
	Assessment	(a)	Smart Wa	ter Metering – Feasibility
			1. Feas	ibility Study of Installing Smart Water(s)
			smar obliga adop	luct a feasibility study to evaluate the potential of installing t water meter(s). Note that the feasibility study imposes no ation for implementation but encourages consideration of tion of smart water meter(s). The feasibility study report include the following:
			1.1.2	ground . Project information; . Current metering system adopted for the building(s); . Expected coverage of smart water meter(s).
			1.2.1 1.2.2	nical considerations of smart water meter(s) . Description of the proposal; . Advantage to be obtained by installing the smart water meter(s); . Technical and/ or site constraint identified.
			1.3.1 1.3.2 1.3.3	omics of smart water meter(s) . Upfront installation costs; . Anticipated maintenance cost; . Anticipated cost saving; . Payback period.
				lusions . Conclude whether smart water meter(s) is feasible for the project; . Recommendation to refine the smart water meter(s) provision when feasible (if any).
			feasil	re compliance with part (b) has been demonstrated, the pility study under part (a) is not required, and one credit r part (a) shall be achieved.

(b) Smart Water Metering – Implementation

- 1. Demonstrate the provision of smart water meter(s) to monitor and collect monthly total fresh water consumption for the building. Schematic diagrams showing the location of provision and on-site photos shall be provided.
- The smart water meter(s) shall be able to display metered data, trending of water consumption and relevant parameters, and with data logging capability/ connected to Building Management System (BMS) or any cloud server serving the purpose of monitoring the water consumption performance.
- 3. The provision of smart water meter(s) shall cover each water sub-system of the building, e.g. general ablution, irrigation, cleansing, water features, air-conditioning, etc. as a minimum.

(a) Smart Water Metering – Feasibility

Supporting Docu Please provide indicated on the le	ΡΑ	FA	
WU-04-01a_00	EB submission form for WU-04-01a		
WU-04-01a_01	Feasibility study report		

(b) Smart Water Metering – Implementation

	iments softcopies with filename prefix as eftmost column below.	ΡΑ	FA
WU-04-01b_00	EB submission form for WU-04-01b	\checkmark	
WU-04-01b_01	Catalogue of the smart water meter(s) installed		
WU-04-01b_02	Plumbing schematic drawings showing the provision of smart water meter(s)		
WU-04-01b_03	On-site photographs of the water meters and data logging system	\checkmark	

Remarks

Submittals

(a) Additional Information

None

(b) Related Credit Head(s)

6	Water Use	WU	-04	Water Management
		WU	-04-02	Fresh Water Consumption Monitoring and Reduction
	Objective	con	sumption of	operators to measure and monitor the freshwater different water sub-systems and develop measures to nuous improvement in reducing fresh water consumption.
	Credit point(s) Attainable	11		
	Credit Requirement	(a)	Fresh Wate	er Consumption - Landlord-Controlled Area
				int for providing total fresh water consumption record for months for landlord-controlled area.
		(b)	Fresh Wate	er Consumption - Whole Building
			•	int for extending the fresh water consumption records to hole building(s) for the past 36 months.
		(c)	Self-Impro	vement
				point(s) for demonstrating a net percentage of fresh water n reduction in landlord-controlled area over the past 36

Credit Point(s)	Net percentage of fresh water consumption reduction
1	2%
2	4%
3	5%
4	6%
5	7%
6	8%
7	9%
8	≥ 10%

(d) Continuous Reduction Trend

months.

1 credit point for demonstrating a continuous reduction trend on the annual landlord fresh water consumption over the past 36 months.

Assessment

(a) Fresh Water Consumption - Landlord-Controlled Area

- 1. Provide fresh water consumption records for landlord-controlled area for the past 36 months.
- 2. Provide plumbing schematic diagrams or layout drawings illustrating the location of water meters for landlord-controlled area.
- 3. The Applicant shall present the fresh water consumption records with metering data or water bills. Standard data log sheet endorsed by building-in-charge/ team lead of building

management team is also acceptable.

(b) Fresh Water Consumption - Whole Building

- 1. Provide fresh water consumption records for the whole building(s) for the past 36 months.
- 2. Provide plumbing schematic diagrams or layout drawings illustrating the location of water meters for the whole building(s).
- 3. The Applicant shall present the fresh water consumption records with metering data or water bills. Standard data log sheet endorsed by building-in-charge/ team lead of building management team is also acceptable.

(c) Self-Improvement

- 1. Compute the net percentage on fresh water consumption reduction by the water bills or metering data. The numerator shall be the water consumption of the past 12 months, while the denominator could be any years within the past 36 months.
- $(1 \frac{\text{Current year annual landlord fresh water consumption (m}^3)}{\text{Baseline year annual landlord fresh water consumption (m}^3)} x 100\%$

(d) Continuous Reduction Trend

1. Compute the annual percentage of landlord fresh water consumption reduction over the past 36 months and demonstrate a continuous reduction trend for each year.

Submittals

(a) Fresh Water Consumption - Landlord-Controlled Area

Supporting Documents Please provide softcopies with filename prefix as indicated on the leftmost column below.			FA
WU-04-02a_00	EB submission form for WU-04-02a	\checkmark	\checkmark
WU-04-02a_01	Plumbing schematic diagrams or layout drawings showing the water meters		
WU-04-02a_02^	Fresh water consumption records with metering data or water bills [or] Endorsed standard data log sheet with summary for fresh water consumption	V	V

(b) Fresh Water Consumption - Whole Building

Supporting Documents Please provide softcopies with filename prefix as indicated on the leftmost column below.			FA
WU-04-02b_00	EB submission form for WU-04-02b	\checkmark	\checkmark
WU-04-02b_01	Plumbing schematic diagrams or layout drawings showing the water meters		
WU-04-02b_02^	Fresh water consumption records with metering data or water bills [or] Endorsed standard data log sheet with summary for fresh water consumption	V	\checkmark

(c) Self-Improvement

Supporting Docu	iments	PA	FA
	softcopies with filename prefix as		
indicated on the le	aftmost column below.		
WU-04-02c_00	EB submission form for WU-04-02c	\checkmark	\checkmark
WU-04-02c_01	Plumbing schematic diagrams or		
	layout drawings showing the water	\checkmark	
	meters		
WU-04-02c_02	Water bills/ metering data with		
	summary for fresh water consumption		
	[or]		
	Endorsed standard data log sheet		
	with summary for fresh water		
	consumption		
WU-04-02c_03	Calculation on net percentage on	\checkmark	N
	fresh water consumption reduction	v	N

(d) Continuous Reduction Trend

Supporting Documents Please provide softcopies with filename prefix as indicated on the leftmost column below.			FA
WU-04-02d_00	EB submission form for WU-04-02d	\checkmark	\checkmark
WU-04-02d_01	Plumbing schematic diagrams or layout drawings showing the water meters	\checkmark	
WU-04-02d_02	Water bills/ metering data with summary for fresh water consumption [or] Endorsed standard data log sheet with summary for fresh water consumption	V	V
WU-04-02d_03	Calculation of annual percentage of landlord fresh water consumption reduction	\checkmark	

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

WU-01-02 Water Efficient Irrigation

WU-03-01 Water Recycling

6	Water Use	WU	WU-04		Water Management
		WU	-04-04		Quality and Safety of Water Supply
	Objective	the	plumb	ing sy	ding Owner/ Building Management Company to maintain stems in good condition to ensure the building users can ity of water.
	Credit point(s) Attainable	2			
	Credit Requirement	(a)	Wate	er Sup	ply System Safety Inspection
				elines	nt for conducting routine inspection in accordance with the for Drinking Water Safety Plans for Buildings in Hong
		Alte	ernativ	vely,	
				er Sup	int for achieving Blue or above certificate under Quality ply Scheme for Buildings – Fresh Water (Management
		(b)	Wate	er Aud	lit
				edit po ntory.	int for conducting a water audit and maintain a water use
	Assessment	(a)	Wate	er Sup	ply System Safety Inspection
			1.	routin refere	op and provide risk assessment summary table and e water safety checklist for the project building, with nce to Part C to E in Annex I of the Guidelines for Drinking Safety Plans for Buildings in Hong Kong [1].
			2.	in the record Perso	uct inspection according to the typical frequency identified e routine water safety checklist, and provide inspection ds endorsed by Qualified Person (as per List of Qualified ns Trained in Water Safety Plan for Buildings by WSD) for ast 12 months.
		Alte	ernativ	/ely,	
			1.	Suppl Syste	de a copy of Blue or above certificate under Quality Water y Scheme for Buildings – Fresh Water (Management m) and the certificate shall be valid at the time of first sment submission.
		(b)	Wate	er Aud	lit
			1.		de a water audit report for all areas of water use, but may de water consumption by tenants. The report shall include:
				1.1. \	Water supply system
				1	1.1.1. General description with building characteristics;
				1	1.1.2. Water supply flow diagram(s);
				1	1.1.3. Inspection of equipment, devices and processes

across the site as part of preparing a usage inventory investigation of consumption by major equipment, devices and processes;

- 1.2. Water Safety
 - 1.2.1. Identification of significant hazards, hazardous events and control measures;
 - 1.2.2. Implementation of corrective actions in response to adverse findings (if any);
 - 1.2.3. Implementation of documentation and records control, such as training, operation and maintenance records, etc.
- 1.3. Water conservation
 - 1.3.1. Breakdown of usage across the site and site activities, reconciled against total metered water consumption;
 - 1.3.2. Investigation of water usage trends and patterns;
 - 1.3.3. Recommendation and water conservation opportunity (if any).
- 2. When Water Safety Plan for Buildings (WSPB) is implemented for the project building(s), content as stipulated under section 1.2 could be presented in form of the Drinking Water Safety Plans for Building Audit Checklist as required in the WSPB.
- 3. The water audit shall be conducted by an external third party or internal staff that not involved in the implementation of the water supply system safety inspection.
- 4. The audit frequency shall not be lower than once every two years, or the specified frequency in the Water Conservation Plan for the building.

Submittals

(a) Water Supply System Safety Inspection

Supporting Docu Please provide indicated on the le	PA	FA	
WU-04-04a_00	EB submission form for WU-04-04a		
WU-04-04a_01	Risk assessment summary table	\checkmark	
WU-04-04a_02	Routine Water Safety Checklist		
WU-04-04a_03	Endorsed Inspection records for the past 12 months	\checkmark	
Alternative path	·		
WU-04-04a_04	Copy of certificate under Quality Water Supply Scheme for Buildings – Fresh Water (Management System)	\checkmark	\checkmark

(b) Water Audit

Supporting Docu	PA	FA		
•	softcopies with filename prefix as aftmost column below.			
WU-04-04b_00	EB submission form for WU-04-04b $\sqrt{-\sqrt{-1}}$			
WU-04-04b_01	Water audit report	\checkmark		

Remarks

(a) Additional Information

 [1] Water Supplies Department. Water Safety Plan for Buildings
 [ONLINE]
 https://www.wsd.gov.hk/en/water-safety/water-safety-inbuildings/index.html
 [Accessed Jun 2025]

(b) Related Credit Head(s)

7. Health and Wellbeing This section considers the broader perspectives of sustainable interior spaces as well as the occupants' health and wellbeing. The broader sustainable issues include provisions of hygiene and amenities maintenance provided in the building, which have impact on the quality of working and living environments.

Indoor environmental quality includes indoor air quality and ventilation provisions that safeguard health. Considerations of health and wellbeing also include thermal comfort, lighting, acoustic and noise, impact on wellbeing, comfort and productivity.

The following Credit Heads are not applicable under EB v3.0:

Credit Code	Credit Head
HWB-00-01	Minimum Ventilation Performance
HWB-03-02	Waste Odour Control
HWB-03-04	Indoor Vibration
HWB-03-09	Biological Contamination
HWB-04-01	Touchless Environment

7	Health and Wellbeing	HWB-01	Green and Healthy	Living		
		HWB-01-01 I	Healthy and Active	Living		
	Objective	Improve the living building users	g/ working experier	nce and enhance the	health	of the
	Credit point(s) Attainable	1				
	Credit Requirement		credit point for providing at least two (2) of the followin ctive living features.			ny and
		Healthy and act	Healthy and active living features			
		signage about services rela	ion boards and/ or ut facilities and ted to physical ommunal areas	Staircase for build accessible to all occ		
			shower and locker communal areas	Provide activity s promote physical building users at cor	activity for	
		dispensers for te	accessible water enants and visitors the building	Provide secure, sh accessible bicyc		
			Others to be proposed by Applicant			
	Assessment	provided and	their locations.	the healthy and active access to all provid	-	
	Submittals	•		filename prefix as low.	PA	FA
				orm for HWB-01-01		
		HWB-01-01_01		Summary table listing the healthy and active living measures provided and their locations		\checkmark
		HWB-01-01_02 Photo record(s) of the healthy and active living measures		-		
	Remarks	(a) Additional I	nformation			
		None				
		(b) Related Cre	dit Head(s)			
		None				

7	Health and Wellbeing	HWB-01 Green and Healthy Living					
		HWB-01-02 B	iophil	ic Design			
	Objective	surroundings to r	ourture	ipants to have constant the innate human-nati logical need to be ar	ure conne	ection a	and to
	Credit point(s) Attainable	1					
	Credit Requirement	1 credit point for providing at least three (3) of the following biophilic design features/ strategies in the communal areas of the building.				design	
		List of amenities	s for b	iophilic design features	s/ strategi	es	
		Provision of ind plants (e.g. pot plants, plant wa	ted	Incorporate water elements (e.g. water features, fountain)	Utilise n (e.g. sk wi		
		Use of natural materials (e.g. wo bamboo, rattan o cork)		Mimicking images of nature	Establish visual connections to nature (e.g. views of natural environment within/ outside assessment boundary)		nature atural ithin/ ment
		Others to be proposed by the Applicant					
	Assessment			 table illustrating the p ategies and their location 		of the b	iophilic
	Submittals	Supporting Doc Please provide indicated on the l	softco	ppies with filename p	refix as	ΡΑ	FA
		HWB-01-02_00	EB s	ubmission form for HWB	-01-02		
		HWB-01-02_01		mary table of the biophili ures/ strategies adopted a tions	-		\checkmark
		HWB-01-02_02		o record(s) of the biophili ires/ strategies adopted	c design	-	\checkmark
	Remarks	(a) Additional In	forma	tion			
		Biophilic Design Case Studies. Terrapin Bright Green [ONLINE] https://www.terrapinbrightgreen.com/report/biophilic-design-case- studies/ [Accessed Jun 2025]				ase-	
		(b) Related Crec					

7	Health and Wellbeing	HWB-01 C	Green and Healthy Living			
		HWB-01-03 F	Physical Activity and Mental Health Pro	gramm	e	
	Objective	Promote physical	activity and mental health to the building	users.		
	Credit point(s) Attainable	1				
	Credit Requirement		credit point for organising physical activity and/ or mental gramme for the building users on annual basis.			
	Assessment		Provide a schedule to illustrate the physical activity health programme held in the past 12 months.		mental	
		muscles and	Physical activity is defined as any movement that engages the body's muscles and requires energy expenditure, including activities such as walking, running, cycling, or sports.			
		mental well-l	 A mental health program is a structured initiative designed to promo mental well-being, provide support, and enhance coping strategie through various activities, workshops, or counselling. 			
	Submittals	Please provide	Supporting Documents Please provide softcopies with filename prefix as indicated on the leftmost column below.		FA	
		HWB-01-03_00	EB submission form for HWB-01-03	\checkmark		
		HWB-01-03_01	Schedule illustrating the physical activity and/ or mental health programme held in the past 12 months	V	\checkmark	
		HWB-01-03_02	Promotional flyer of each organised event	\checkmark		
		HWB-01-03_03	Photo(s) of each organised event			
	Remarks	of well-being can cope wit is able to ma is fundamer functioning of health.	y the World Health Organisation, mental h in which an individual realises his or he h the normal stresses of life, can work pr ke a contribution to his or her community htal to maintaining personal health as of the community. There is no health w	r own a oductive . Mental s well a	bilities, ely and health as the	
		[ONLINE] https://www.v	alth Organisation. Mental health who.int/news-room/fact-sheets/detail/men g-our-response	tal-heal	th-	

(b) Related Credit Head(s)

[Accessed Jun 2025]

7 Health and Wellbeing HWB-02 Human Scaled Living

HWB-02-01 Inclusive Design

Encourage user-friendly features in the design of outdoor or semi-outdoor communal and private spaces at different levels of a building.

Credit point(s) Attainable 3

Objective

Credit Requirement (a) Universal Accessibility

1 to 2 credit point(s) for providing at least five (5)/ ten (10) applicable enhanced provisions as stipulated in the "Recommended Design Requirements" of the latest version of Design Manual - Barrier Free Access issued by Buildings Department.

(b) Family Friendly Facilities

1 credit point for providing at least three (3) family friendly facilities in the building.

List of family friendly facilities					
Dedicated play areas for children with shaded seating areas for care-takers	At least one washroom (excluding accessible toilets) is equipped with a child protection seat with a safety belt				
At least one standalone family washroom	At least one babycare room for the public				
At least one lactation room for staff	Others to be proposed by the Applicant				

Assessment

(a) Universal Accessibility

- 1. Provide a summary table, drawings and photos detailing applicable enhanced provisions as stipulated in the "Recommended Design Requirements" of latest Barrie Free Access Manual.
- 2. All building users shall have access to all provided enhanced provisions.

(b) Family Friendly Facilities

- 1. Provide a summary table, drawings and photos detailing the provided family friendly facilities.
- 2. All building users shall have access to all provided family friendly facilities, except lactation room for staff.

(a) Universal Accessibility

•	ments softcopies with filename prefix as ftmost column below.	ΡΑ	FA
HWB-02-01a_00	EB submission form for HWB-02-01a	\checkmark	
HWB-02-01a_01	Summary table listing the enhanced provisions and their locations		
HWB-02-01a_02	Drawings and photos of the enhanced provisions	-	

(b) Family Friendly Facilities

Supporting Docu Please provide indicated on the le	ΡΑ	FA	
HWB-02-01b_00	EB submission form for HWB-02-01b	\checkmark	
HWB-02-01b_01	Summary table listing the family friendly features and their locations		
HWB-02-01b_02	Drawings and photos of the family friendly features	-	

Remarks

(a) Additional Information

Design Manual - Barrier Free Access 2008 (2024 Edition), Buildings Department [ONLINE] https://www.bd.gov.hk/doc/en/resources/codes-andreferences/code-and-design-manuals/BFA2008_e.pdf [Accessed Jun 2025]

PNAP ADV-32 - Provision of Babycare Rooms and Lactation Rooms in Commercial Buildings, Buildings Department [ONLINE] https://www.bd.gov.hk/doc/en/resources/codes-andreferences/practice-notes-and-circularletters/pnap/ADV/ADV032.pdf [Accessed Jun 2025]

(b) Related Credit Head(s)

7	Health and Wellbeing	HWB-02 H	Hum	an Scaled Living		
		HWB-02-02	Ame	nities for Operation and Maintenan	ice	
	Objective		Facilitate the building maintenance personnel in carrying out maintenance activities in a safe and efficient manner.			on and
	Credit point(s) Attainable	2				
	Credit Requirement	1 to 2 credit point(s) for providing at least three (3)/ six (6) of the following amenities/ features.				llowing
		List of amenitie	ist of amenities for operation and maintenance			
		Aerial working platform)	Cat ladder		ntral I room
		Gondola		Central Control and Monitoring System (CCMS) or Building Management System (BMS)	Guard	l room
		Maintenance platform for building servicesmanagement (shall refe designatedinstallations(e.g. wire mesh platform for chillers/ cooling towers)management (shall refe designatedmaintenance waintenanceactiviti activiti waintenance			Moveable working platform	
			Othe	ers to be proposed by the Applicant		
	Assessment	1. Provide a su and their loca		ary table illustrating the provision of thes.	ne amer	nities
	Submittals		so	ents ftcopies with filename prefix as nost column below.	PA	FA
		HWB-02-02_00		B submission form for HWB-02-02		
		HWB-02-02_01	р	ummary table of the amenities rovided and their locations	\checkmark	\checkmark
		HWB-02-02_02		hoto record(s) of the amenities rovided	-	\checkmark
	Remarks	(a) Additional In	nfor	mation		
		(b) Related Cre	dit F	lead(s)		
				(-)		

7	Health and Wellbeing	HWB-03		Indoor Environmental Quality
		HW	B-03-01	Ventilation Performance
	Objective			inimum quantity of outdoor air is supplied to spaces in the to support the well-being and comfort of the occupants.
	Credit point(s) Attainable	2		
	Credit Requirement	(a)	Minimum	Ventilation (Calculation)
				int for demonstrating that the design outdoor air flow rate he minimum outdoor air required by ANSI/ASHRAE 2.1-2022.
		(b)	Minimum	Ventilation (Measurement)
				oint for conducting measurement to demonstrate the outdoor air has been achieved.
	Assessment	(a)	Minimum	Ventilation (Calculation)
		1.	individual	alculation of minimum amount of outdoor air of each tenant space and normally occupied landlord area as v ANSI/ASHRAE Standard 62.1-2022.
		2.	providing f rests with there are project's in source, suc Handbook	ts with bare shell provisions (i.e., the responsibility for resh air equipment to supply fresh air into indoor spaces the future users/tenants), the Applicant shall ensure that adequate fresh air louvres to draw outdoor air into the door space. The Applicant shall refer to an authoritative ch as the criteria for louvre sizing specified in the ASHRAE - Fundamentals, when determining the actual number and louvres provided at the façade of the project.
		3.	The calcula	ation shall be endorsed by building-in-charge/ team lead.
		(b)	Minimum	Ventilation (Measurement)
		1.	tenant spa can be mad air side sys	ne total amount of outdoor air being delivered to individual ce and normally occupied landlord area. Measurements de directly or by installed flow measurement devices in the stem. The instruments/ sensors for measurement shall be n accordance with manufacturer's recommendation.
		2.	calculated	te that the measured results shall be equal or larger than minimum amount of outdoor air of each individual tenant normally occupied landlord area.
		3.		neasurement, a minimum of 5 points across each sectional ct shall be taken.
		4.		rement shall be conducted within the past 12 months prior assessment submission.
		5.	The measu in-charge/	ared results and calculation shall be endorsed by building-

(a) Minimum Ventilation (Calculation)

Supporting Docur Please provide s indicated on the lef	ΡΑ	FA	
HWB-03-01a_00	EB submission form for HWB-03- 01a		
HWB-03-01a_01	Calculation of minimum outdoor air	\checkmark	
HWB-03-01a_02	MVAC layout plan / schematic diagram showing fresh air flow rate of fresh air equipment	\checkmark	\checkmark

(b) Minimum Ventilation (Measurement)

•	nents oftcopies with filename prefix as tmost column below.	ΡΑ	FA
HWB-03-01b_00	EB submission form for HWB-03- 01b	\checkmark	\checkmark
HWB-03-01b_01	Calculation of minimum outdoor air	\checkmark	\checkmark
HWB-03-01b_02	MVAC layout plan / schematic diagram showing fresh air flow rate of fresh air equipment		
HWB-03-01b_03	Measurement results of total amount of outdoor air for each tenancy area and normally occupied area	-	
HWB-03-01b_04	Layout plan indicating the measurement points	\checkmark	\checkmark

Remarks

(a) Additional Information

ANSI/ASHRAE Standard 62.1-2022 - Ventilation and Acceptable Indoor Air Quality [ONLINE] https://webstore.ansi.org/standards/ashrae/ansiashrae622022 [Accessed Jun 2025]

(b) Related Credit Head(s)

7	Health and Wellbeing	HW	B-03 Indoor Environmental Qualit	^t y
		нพ	B-03-03 Indoor Acoustic Environme	nt
	Objective		ure the normally occupied spaces ha ronment.	ve a pleasant acoustic
	Credit point(s) Attainable	3		
	Credit Requirement	(a)	Background Noise Level	
			1 credit point for demonstrating backgroup prescribed criteria.	ind noise levels within the
		(b)	Reverberation Time	
			1 credit point for demonstrating that the applicable areas meets the prescribed crite	
		(c)	Noise Isolation	
			1 credit point for demonstrating airborned spaces fulfils the prescribed criteria.	e noise isolation between
	Assessment	(a)	Background Noise Level	
			 Demonstrate the background nois occupied space arising from external building services equipment is within simulation or measurement deper preference. NR and NC value shall b project. 	I noise source and internal below criteria by computer nding on the Applicant's
			Types of Space	Required NR/NC
			Classroom Conference room Clinic Library Hotel and serviced apartment Residential flat	35
			Clubhouse Office	40

Shopping mall

Leisure & Entertainment

For on-site measurement, the measurement shall be based on an equivalent continuous sound level of 5 minutes [L_{eq} (5mins)] with the HVAC&R system operating under normal condition.

- 2. The measurement shall be conducted within the past 12 months prior to the first assessment submission.
- 3. The assessment shall include at least one sample from each type of normally occupied space.

45

50

(b) Reverberation Time

 Demonstrate the mid-frequency reverberation time (RT) of the interior spaces is within below criteria by computer simulation or measurement depending on the Applicant's preference. The average reverberation time for mid frequencies (500Hz, 1kHz and 2kHz) shall not exceed:

Types of Space	RT (second)
Conference room	
Clinic	
Hotel and serviced apartment	0.6
Office	
Residential flat	
Classroom	
Library	0.8
Clubhouse	1 5
Shopping mall	1.5
Leisure & Entertainment	2.0

- 2. The measurement shall be conducted within the past 12 months prior to the first assessment submission.
- 3. The assessment shall include at least one sample from each type of normally occupied space.

(c) Noise Isolation

1. Demonstrate airborne noise isolation between spaces fulfilling the prescribed criteria.

Compliance shall be demonstrated by computer simulation or measurements depending on the Applicant's preference. The performance of the weighted Sound Reduction Index (SRI) or Level Difference shall fulfil the requirements as stated in below table:

Type of Premises	Weighted SRI	Level Difference
Between classrooms	R _w 37	D _{nT,w} 31
Between offices/ conference rooms/ retail shops	R _w 44	DnT,w 38
Between hotel rooms/ serviced apartments/ function rooms/ activity rooms	R _w 52	D _{nT,w} 46
Between plantrooms/ circulation space	R _w 52	D _{nT,w} 46

Note:

Measuring equipment shall conform to the accuracy requirements given by IEC 61672-1 [1] Class 1 requirements, or equivalent.

The assessment shall take into account noise from building services equipment under normal operation mode.

All acoustic calculations or measurement reports for this credit shall be endorsed by a Corporate Member of Hong Kong Institute of Acoustics or equivalent.

- 2. The measurement shall be conducted within the past 12 months prior to the first assessment submission.
- 3. The assessment shall include at least one sample from each type of normally occupied space.
- 4. The criteria applied to partition walls only.

(a) Background Noise Level

Supporting Docu Please provide a indicated on the le	PA	FA	
HWB-03-03a_00	EB submission form for HWB-03-03a	\checkmark	\checkmark
HWB-03-03a_01	Layout plan highlighting the representative locations to be assessed	\checkmark	
HWB-03-03a_02	Measurement report for background noise level	-	
HWB-03-03a_03	Calibration certificate for all sound level meters	-	
HWB-03-03a_04	Simulation report for background noise level	-	

(b) Reverberation Time

Supporting Docu Please provide indicated on the le	ΡΑ	FA	
HWB-03-03b_00	EB submission form for HWB-03-03b	\checkmark	\checkmark
HWB-03-03b_01	Layout plan highlighting the representative locations to be assessed	\checkmark	
HWB-03-03b_02	Measurement report for reverberation time	-	\checkmark
HWB-03-03b_03	Calibration certificate for all sound level meters	-	\checkmark
HWB-03-03b_04	Calculation sheets/ Simulation report for reverberation time	-	

(c) Noise Isolation

	ments softcopies with filename prefix as ftmost column below.	PA	FA
HWB-03-03c_00	EB submission form for HWB-03-03c	\checkmark	
HWB-03-03c_01	Layout plan highlighting the representative locations to be assessed		\checkmark
HWB-03-03c_02	Schedule of the rooms within the assessment boundary	\checkmark	
HWB-03-03c_03	Measurement report for noise isolation	-	
HWB-03-03c_04	Calibration certificate for all sound level meters	-	
HWB-03-03c_05	Simulation report for noise isolation	-	
HWB-03-03c_06	Construction details of the partition walls	\checkmark	

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

- 7 Health and Wellbeing HWB-03 Indoor Environmental Quality
 - HWB-03-05 Continuous IAQ Monitoring
 - **Objective** Promote building occupants' comfort, wellbeing and productivity by continuous monitoring of indoor air quality

Credit point(s) Attainable 4

Credit Requirement

(a) Provision of IAQ Sensor

1 to 2 credit point(s) for installing an IAQ sensor for every $500m^2$ and at least one (1) per floor to measure at least four (4)/ six (6) of the following parameters in a normally occupied or common space within the assessment boundary:

List of Parameters

PM _{2.5}	PM10	Carbon dioxide
Total VOCs	Nitrogen dioxide	Ozone
Carbon monoxide	Formaldehyde	Radon

(b) Response Mechanism

1 credit point for buildings with a response mechanism setting out the mitigation measures, when the monitored parameters fail to meet the Good Class requirements of the certification scheme of the Environmental Protection Department.

(c) Real-time IAQ Data Disclosure

1 credit point for publishing the data from such continuous monitoring from selected locations in the building, in real time to its building users.

Assessment

(a) Provision of IAQ Sensor

1. Provide a narrative demonstrating compliance with the credit requirements.

(b) Response Mechanism

1. Demonstrate the response mechanism for the assessment boundary.

(c) Real-time IAQ Data Disclosure

1. Provide a screen capture of the platform (e.g., website/ mobile application/ digital display screen) showing the real-time IAQ data published for its occupants.

(a) Provision of IAQ Sensor

	cumentsPAe softcopies with filename prefix ase leftmost column below.					
HWB-03-05a_00	EB submission form for HWB-03- 05a					
HWB-03-05a_01	Layout plan with the locations of all IAQ monitors					
HWB-03-05a_02	Catalogue of IAQ monitor	\checkmark				
HWB-03-05a_03	Sample photo record(s) of the IAQ monitors installed	-				

(b) Response Mechanism

	nents coftcopies with filename prefix as tmost column below.	ΡΑ	FA
HWB-03-05b_00	EB submission form for HWB-03- 05b		
HWB-03-05b_01	Narrative of the response mechanism		

(c) Real-time IAQ Data Disclosure

•	nents oftcopies with filename prefix as tmost column below.	ΡΑ	FA
HWB-03-05c_00	EB submission form for HWB-03- 05a		
HWB-03-05c_01	Screen capture of display screen or website/ mobile application	-	

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

7	Health and Wellbeing	HWB-03		Indoor Environmental	Quality	
		HW	B-03-06	Thermal Comfort Mon	itoring	
	Objective	Prov	vide an a	acceptable thermal environm	ent to the building users.	
	Credit point(s) Attainable	2				
	Credit Requirement	(a)	Tempe	erature and Humidity Contr	ol	
				ty meet the prescribed criteri	he temperature and the relative ia in the communal areas with air	
		(b)	Contir	uous Monitoring		
			1 credi	credit point for installing sensors for continuous monitoring.		
	Assessment	(a)	Tempe	mperature and Humidity Control		
			d		reports or data from sensors to and relative humidity meet the	
			I	Temperature	Relative humidity	
			L	25.5°C ± 1.5 °C	40% to 70%	
				he measurements shall be ugust) only.	conducted in summer (June to	
			-	he measurement method NSI/ASHRAE Standard 55-2		
			ty		e at least one sample from each ce as defined under Section 9.2 of	
				he measurement shall be cor rior to the first assessment su	nducted within the past 12 months ubmission.	
				he measured results shall be am lead of building manager	e endorsed by building-in-charge/ ment team.	
		(b)	Contir	uous Monitoring		
			th		tion of the sensor to demonstrate easure temperature and relative	
				Il data collected would be a leans of display screen or we	vailable to the building users by bosite/mobile application.	
			3. T	The measured data shall be able to update every 15 minutes.		
			ty		e at least one sample from each ce as defined under Section 9.2 of	

(a) Temperature and Humidity Control

	ments softcopies with filename prefix as ftmost column below.	ΡΑ	FA
HWB-03-06a_00	EB submission form for HWB-03-06a	\checkmark	\checkmark
HWB-03-06a_01	Thermal comfort measurement report	-	

(b) Continuous Monitoring

	ments softcopies with filename prefix as ftmost column below.	ΡΑ	FA
HWB-03-06b_00	EB submission form for HWB-03-06b	\checkmark	
HWB-03-06b_01	Technical specification of the sensor	\checkmark	
HWB-03-06b_02	Layout plan showing the installation location of the sensor		
HWB-03-06b_03	Photo records of the installed sensor	-	
HWB-03-06b_04	Screen capture of display screen or website/ mobile application	-	\checkmark

Remarks

(a) Additional Information

ANSI/ASHRAE Standard 55-2023 - Thermal Environmental Conditions for Human Occupancy [ONLINE] https://webstore.ansi.org/standards/ashrae/ansiashraestandard5520 23 [Accessed Jun 2025]

(b) Related Credit Head(s)

7	Health and Wellbeing	HW	B-03	Inc	door Environmental Quality		
		HW	B-03-07	' Ac	ceptable Lighting Performance		
	Objective	Ens	ure opti	mal visu	al comfort for building users.		
	Credit point(s) Attainable	2					
	Credit Requirement	(a)	Lighti	ng Perfo	ormance in Normally Occupied Space	es	
			rating		for demonstrating the illuminance level d uniformity in normally occupied spa a.		
		(b)	Lighti	ng Perfo	ormance in Not Normally Occupied S	paces	
				limit in	or demonstrating the illuminance level ar not normally occupied spaces meet t		
	Assessment	(a)	Lighti	ng Perfo	ormance in Normally Occupied Space	es	
			n C	ormally riteria co	rate the illuminance level, UGR limit ar occupied spaces regarding the lightin omplied with the requirements as stipula landbook or equivalent.	g perfor	mance
					icant can choose to demonstrate the asurements or modelling.	complia	nce by
			S		one sample of each type of normally oc included. Tenancy areas shall be excl ent.		
		(b)	Lighti	ng Perfo	ormance in Not Normally Occupied S	paces	
			O C	ccupied omplied	rate the illuminance level and UGR limit spaces regarding the lighting perfor with the requirements as stipulated in th k or equivalent.	mance	criteria
					icant can choose to demonstrate the asurements or modelling.	complia	nce by
					one sample of each type of not norr nall be included.	nally oc	cupied
	Submittals	(a)	Lighti	ng Perfo	ormance in Normally Occupied Space	es	
		Ple	ease p		ments softcopies with filename prefix as ftmost column below.	PA	FA
			VB-03-0		EB submission form for HWB-03-07a		
			VB-03-0		Lighting layout plan		
			VB-03-0	_	Light fitting schedule		
		HV	VB-03-0	7a_03	Measurement or modelling report	-	

(b) Lighting Performance in Not Normally Occupied Spaces

Supporting Document Please provide st indicated on the lease	ΡΑ	FA	
HWB-03-07b_00	EB submission form for HWB-03-07b	\checkmark	
HWB-03-07b_01	Lighting layout plan	\checkmark	
HWB-03-07b_02	Light fitting schedule	\checkmark	
HWB-03-07b_03	Measurement or modelling report	-	

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

7	Health and Wellbeing	HWB-03	Indoor Environmental Quality				
		HWB-03-08	Daylight				
	Objective	Introduce dayligl artificial lighting.	nt into indoor environment and reduce th	ne reliar	ice on		
	Credit point(s) Attainable	1					
	Credit Requirement		credit point for achieving a glazing-to-floor ratio of at least 10% for a inimum of 80% of the total internal floor area of normally occupied baces.				
	Assessment	internal floo total interna	internal floor area ratio of at least 10% for a minimum of 80% of total internal floor area of normally occupied spaces.				
	Submittals	Please provide	Supporting Documents Please provide softcopies with filename prefix as indicated on the leftmost column below.				
		HWB-03-08_00	EB submission form for HWB-03-08				
		HWB-03-08_01	Layout and elevation plan showing the size of the glazing and room configuration				
		HWB-03-08_02	Calculation indicating the glazing-to- floor ratio of applicable space		\checkmark		
		HWB-03-08_03		V	\checkmark		
		HWB-03-08_04	Photos showing the glazing	-			
	Remarks	(a) Additional	Information				

(b) Related Credit Head(s)

- 7 Health and Wellbeing HWB-03 Indoor Environmental Quality
 - HWB-03-10 Water Quality Survey and Access to Drinking Water
 - **Objective** Ensure the quality of drinking water delivered to the building occupants and promote health

Credit point(s) Attainable 2

Credit Requirement

(a) Water Quality Survey

1 credit point for demonstrating that the quality of drinking water meets WSD's latest guideline [1].

Parameter(s)	Criteria
Chemical and Physical	
Turbidity	≤ 3.0 NTU
Colour	≤ 5 Hazen Unit
pH at 25°C	≥ 6.5 and ≤ 9.5
Free Residual Chlorine	> 0 mg/L and \leq 1.5 mg/L
Conductivity at 25°C	≤ 500 µS/cm
Metals	
Lead	≤ 10 µg/L
Chromium	≤ 50 μg/L
Nickel	≤ 70 µg/L
Cadmium	≤ 3 µg/L
Copper	≤ 2000 µg/L
Antimony	≤ 20 µg/L
Bacteriological	
Heterotrophic Plate Count	≤ 20 cfu/mL
E. Coli	0 cfu/100 mL

The water quality survey shall be conducted by a HOKLAS accredited laboratory and water sampling shall follow the latest WSD's water sampling protocol.

The minimum sampling locations and frequency shall be as follows:

- a. All potable water tank(s) on yearly basis;
- b. Farthest point of each distribution route which is for drinking purpose on yearly basis;
- c. Drinking purpose means that the potable water serving the F&B, kitchen, and pantry areas is intended solely for drinking purposes, excluding the potable water for lavatories;
- d. All water dispensers on quarterly basis.

(b) Access to Drinking Water

1 credit point for providing at least one water dispenser within assessment boundary which is accessible to the public.

Assessment	(a)	Water Quality	ater Quality Survey				
		sampling demonstr	Provide plumbing schematic and layout drawing(s) with all sampling points and distribution route clearly indicated to demonstrate that water sampling has been taken at farthest point(s) of use in the drinking water distribution system.				
		laboratory demonstr	water quality survey report issued by y under the food, environmental testin ate that the result of the water quality sur d drinking water supply standard.	g cateo	gory to		
	(b)	Access to Dri	ess to Drinking Water				
		1. Provide la dispenser	ayout drawing to demonstrate the provision.	on of the	e water		
		2. The wate	r dispenser shall be accessible by the p	ublic.			
Submittals	(a)	Water Quality	Survey				
	Ple	•	ments softcopies with filename prefix as ftmost column below.	ΡΑ	FA		
	HV	VB-03-10a_00	EB submission form for HWB-03-10a				
	ΗV	VB-03-10a_01	Plumbing schematic and layout drawings	\checkmark	\checkmark		
	ΗV	VB-03-10a_02	Water quality survey report	-			
	(b) Access to Drinking Water						
		pporting Docu	PA	FA			
			softcopies with filename prefix as ftmost column below.				

Please provide indicated on the le			
HWB-03-10b_00	EB submission form for HWB-03-10b	\checkmark	\checkmark
HWB-03-10b_01	Plumbing schematic and layout drawings		
HWB-03-10b_02	Photo record(s) of the water dispenser	-	

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

7	Health and Wellbeing	HW	B-03 In	door Environmental Quality		
		HW	B-03-11 A	ir Filtration and Purification Treatmen	t	
	Objective			lity of indoor air by employing effect nate contaminants and pollutants	tive me	dia or
	Credit point(s) Attainable	2				
	Credit Requirement	(a)	Particle Filtra	ation		
			landlord's con	for installing air filters with MERV rat trolled fresh air intake system serving no rined under Section 9.2 of the Appendice	rmally o	
		(b)	Air Purification	on Treatment		
			centralised m handling unit air purification (i.e. ventilatio	nt for providing an air purification ten nechanical ventilation system (i.e. ven with air ducting serving multiple spaces) n device for the localised mechanical ve n fan serving a single space) in all landl upied spaces as defined under Sect	tilation or a star ntilation lord's co	fan/ air ndalone system ntrolled
	Assessment	(a)	Particle Filtra	ation		
				etails of the air filter to demonstrate its M 2 or above.	IERV rat	ting can
		(b)	Air Purification	on Treatment		
				the air treatment methods being under the second stream of the second seco		
			2. Demonstr purificatio	ate that the fresh air intake system is n device.	served	with air
				erage of the standalone air purifier to ent shall be referred to manufacturer's rec ue.		
	Submittals	(a)	Particle Filtra	ation		
		Ple	•	uments softcopies with filename prefix as eftmost column below.	PA	FA
			VB-03-11a_00	EB submission form for HWB-03-11a		
		HV	VB-03-11a 01	Catalogue of the filter		\checkmark

HWB-03-11a_02

Photo records of the filter installed

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(b) Air Purification Treatment

	ments softcopies with filename prefix as ftmost column below.	ΡΑ	FA
HWB-03-11b_00	EB submission form for HWB-03-11b	\checkmark	\checkmark
HWB-03-11b_01	Catalogue of the air purification device or the standalone air purifier		
HWB-03-11b_02	Calculation showing the area coverage of the standalone air purifier meeting sizable requirements	\checkmark	
HWB-03-11b_03	Location plan and photo records of the air purification device or the standalone air purifier installed	-	\checkmark

Remarks

(a) Additional Information

None

(b) Related Credit Head(s)

- 7 Health and Wellbeing HWB-04 Good Hygiene Practices
 - HWB-04-02 Health Protection

Objective Safeguard the health of the building users.

Credit point(s) Attainable 2

Credit Requirement

Remarks

1 to 2 credit point(s) for providing at least three (3)/six (6) of the following health protection measures/ features.

List of health protection measures/ features					
Blood pressure meter	Oximeter	Face mask			
Disinfectant wipe	AED	First aid kit			
Hand-held thermometer	Clinic room	Automatic disinfection station			
Hand washing stations (other than those in washroom)	Contactless lift button for at least 50% of lift	Contactless door release button for at least 50% of the main doors of entrances/ exits			
Others to be proposed by the Applicant					

Assessment 1. Prepare a summary table listing the health protection measures/ features provided and their locations.

2. The health protection measures/ features shall be placed in a location that is accessible by all building users.

Submittals		iments softcopies with filename prefix as eftmost column below.	PA	FA
	HWB-04-02_00	EB submission form for HWB-04-02	\checkmark	
	HWB-04-02_01	Summary table listing the health protection measures/ features provided and their locations		
	HWB-04-02_02	Photo record(s) of the health protection measures/ features	-	\checkmark

(a) Additional Information

None

(b) Related Credit Head(s)

8. Innovations and Additions

BEAM encourages innovative and/ or new techniques that are yet to be found in the mainstream application in the industry addressing sustainability objectives for the buildings.

This section allows the Applicant to submit any innovative techniques, where additional environmental benefits can be provided, on top of those covered in this manual for consideration of the award of credit point(s).

The Applicant shall be solely responsible to submit qualitative and/ or quantitative evidence for BEAM Society Limited (BSL) Assessment Sub-Committee (ASC) review and approval.

Generally, the submission materials shall comprehensively detail the benefits, environmental impacts averted, or exemplary performance achieved as compared to the existing criteria.

8	Innovations and Additions	IA-01	Innovations and Additions					
		IA-01-01	Innovations and Additions					
	Objective	yet to find in	Encourage innovative and/ or new techniques/ practices/ de yet to find in the mainstream application in Hong Kong sustainability objectives for existing buildings.					
	Credit point(s) Attainable	Maximum 10 cre	kimum 10 credit points for IA.					
	Assessment		idence of the application of new practices, iniques that:	techno	ologies,			
		(b) are no	(b) are not part of mainstream market implementation; or					
			Demonstrate the associated benefits of these applications in addressing sustainability objectives for existing buildings:					
			1.1. Identify the sustainability objectives addressed by the proposed innovative applications.					
		effect	1.2. Detail the methods and criteria used to evaluate the benefits and effectiveness of the applications (quantifiable performance indicators should be proposed, if applicable).					
			num number of credit point for each propos ted to one (1);	ed app	lication			
		1.4. Provid	de evidence of the implementation of the ap	plication	าร.			
			will refer the proposal to the BSL Assoch will evaluate each application on its merit		it Sub-			
	Submittals	Supporting De	ocuments	PA	FA			
		Please provid	le softcopies with filename prefix as e leftmost column below.					
		IA-01-01_00	EB submission form for IA-01-01					
		IA-01-01_01	Report on the objectives, evaluating method and criteria for the innovative techniques/ practices/ design		\checkmark			
		IA-01-01_02	Evidence of implementation and evaluation for the innovative techniques/ practices/ design	\checkmark				
	Remarks	(a) Additional	Information					
		None						
		(b) Related C	redit Head(s)					

(b) Related Credit Head(s)

9. Appendices

9.1 Glossary

Biophilic Design

Designing for people as a biological organism and respecting the mind-body systems as indicators of health and well-being in the context of what is locally appropriate and responsive.

Certificate Validity

Certificate Validity refers to the duration for which a BEAM Plus certificate and rating remains effective and officially recognised by the HKGBC.

Global Warming Potential

Global Warming Potential, GWP, provides a measure of the potential for damage that a chemical has relative to one unit of carbon dioxide, the primary greenhouse gas.

Hydro-chlorofluorocarbons

HCFCs cause ozone depletion when released into the atmosphere.

Interior General Lighting

Interior general lighting provides a substantially uniform level of illumination in an area. General lighting shall not include decorative lighting or lighting that provides a dissimilar level of illumination to serve a specialised application or feature within such area.

Normally Occupied Spaces

Normally occupied spaces are enclosed areas where people normally stay more than 1 hour. Spaces which are not used daily but will be occupied for more than 1 hour being used, are considered as normally occupied spaces. Refer to Appendix 9.2 for examples of normally occupied spaces.

Not Normally Occupied Spaces

Not normally occupied spaces are enclosed areas within the building where people normally stay less than 1 hour. Refer to Appendix 9.2 for examples of not normally occupied spaces.

Primary Zone

The 15m vertical zone of a site along the abutting street level. The greenery in this zone is for providing visual contacts or access from a street through common parts of the building for enhancing the walkability of urban space to the public, visitors or occupiers. The top level of soil or similar base for planting shall be taken as the reference level for inclusion in the Primary Zone.

Unoccupied Spaces

Unoccupied spaces are areas within the building where the primary function is not intended for human activities. These spaces are occupied by the occupants for a short period of time and only occasionally. Refer to Appendix 9.2 for examples of unoccupied spaces.

9. Appendices

9.2 Space Type

BEAM Plus considers indoor environmental quality as a key to sustain occupants' health and wellbeing. To assist the Applicant in designing a more thorough and satisfactory strategies, BEAM Plus imposes high requirements on indoor environmental quality covering ventilation, air quality, acoustics and lighting.

As the impacts of indoor environmental quality are dependent on the level of interaction between the occupants and the indoor spaces where they spend their time in, it is crucial for the Applicant to understand and identify the level of usage of each indoor space. To facilitate assessment, the Applicant shall prepare a schedule including all spaces present within the building and their respective locations. The spaces shall be categorised into the following three types (refer to Glossary for definitions):

- Normally occupied spaces
- Not normally occupied spaces
- Unoccupied spaces

Listed below are some examples of each space type. These examples are not exhaustive. If a space present in the Applicant's building is not included below, the Applicant should identify similar examples or categorise the space type according to the definition. Justification is required should the Applicant believe a space cannot be categorised according to the space type definitions.

Space Usage of *normally occupied spaces*

- Auditorium
 Lecture hall
- Concourse
- Conference room
- Dining (commercial and residential)
- Food and beverage dining area
- Front desk
- Gallery area
- Gymnasium
- Hospital patient rooms
- Hotel guest room
- Hotel entrance lobby
- Information desk
- Kitchens (commercial)

- Meeting room
- Open office
- Private office
- Reception
- Residential bedroom
- Residential dining room
- Residential living room
- Retails
- School classroom
- Shipping and receiving
- Shopping arcade

Space Usage of not normally occupied spaces

- Break room
 Main lift lobby
- Copy rooms
- Corridor

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- Entrance lobby (other than hotel)
 - Staircases

Space Usage of *unoccupied spaces*

- Emergency exit corridor
- Mechanical and electrical rooms
- Car park

• Storeroom

Lift lobby

Pantry

Toilet

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•

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- Warehouse
- Data Centre/Server room

Residential kitchen