Introducing the Implementation Guidance for Climate Disclosures under HKEX ESG reporting framework

May 2024





The Implementation Guidance (IG) is structured into five chapters to closely align with HKEX's ESG Code

Ch1: Key concepts for preparing climate disclosures	Reporting prince Principles from the ESG Code underpinning t	
	IFRS S1 conceptual foundations and Key IFRS S1 concepts and approaches for decision-useful	
	Recommended workflow to aid issuers' monitoring and managing of climate- opportunities and reporting.	related risks and
Ch2: Governance	01 Determine suitable governance structure	
	O2 Identify the effects posed by material climate-relation opportunities on the business	ted risks and
	O3 Incorporate climate-related risks and opportunities business strategies	s into planning and Implementation reliefs
Ch3: Strategy	O4 Select suitable scenarios and parameters under a oboundary	confirmed scope and to address issuers' challenges in climate reporting
	O5 Assess the financial effects from climate-related ris	, ,
	O6 Implement actions and targets and provide inform climate-related risks and opportunities on its strate	
Ch4: Risk Management	O7 Identify management processes to prioritise, mana related risks and opportunities	age and monitor climate-
Ch5: Metrics and Targets	O8 Develop specific metrics and indicators to monitor and opportunities	climate-related risks

PwC 2

Key highlights of the Implementation Guidance



Introducing	the key
concepts of	IFRS S1

Insights from real life application

Organised into five chapters to closely align with HKEX's ESG Code

Step-bystep illustrations with explanation

Practical applications

Cross-referenced to HKEX ESG Code, IFRS S1 & S2

Important note to issuers

Further guidance

Available in both English and Chinese

Throughout the Implementation Guidance, you will find various keys to guide you through the content, including:					
Keys		Purpose			
	Paragraph 1(a)	Paragraph(s) under HKEX ESG Code requirements			
		References to the implementation reliefs available for issuers in			
		preparing climate-related disclosures			
	S1 20	References to relevant paragraph(s) of IFRS S1			
	S2 B1	References to relevant paragraph(s) of IFRS S2			
	C2 19	References to HKEX ESG Code requirements			
	Further guidance	Useful links to reference materials			
	Important note	Clarifications and key reminders			
Q	Insights	Insights and recommendations from real life situations			
	Practical application	Examples to support the application of Part D of the ESG Code			

Navigation throughout this guidance

Introducing IFRS S1 key concepts for climate disclosure

1. Quality of information

6. Value chain concepts

11. Comparative information

2. Reporting entity

7. Statement of compliance

12. Estimates and errors

3. Timing of reporting

8. Judgements and measurement uncertainty

13. Connected information

4. Location of disclosures

9. Interaction with law or regulation

5. Materiality

10. Aggregation and disaggregation



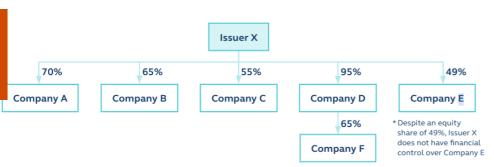
Distinguishing between organisational and operational

boundaries

Insights: Relationship between organisational and operational boundaries

Issuer X has direct and indirect subsidiaries as below.

Consider your ownership structure



Setting organisational boundary: The issuer assesses how GHG emissions can be accounted for via the equity share and the control approach.

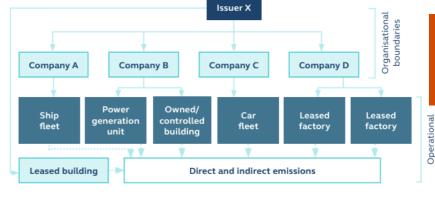
Entity	Classification in Issuer	Economic interest	Control of	Emissions accounted for		
	X's financial statements	held by Issuer X	financial policies	Equity share	Control	
			·		approach	
Company A	Subsidiary	70%	Issuer X	70%	100%	
Company B	Subsidiary	65%	Issuer X	65%	100%	
Company C	Subsidiary	55%	Issuer X	55%	100%	
Company D	Subsidiary	95%	Issuer X	95%	100%	
Company E	Associated company	49%	Company E	49%	0%	
Company F	Company F Subsidiary of Company D		Company D	61.75%	100%	
				(95% x 65%)		

Issuer X decided to account for its GHG emissions using the financial control approach. In this case, Issuer X will include 100% of the GHG emissions from Companies A, B, C and D. As Company F is a subsidiary of Company D and is financially controlled by Company D, its GHG emissions will be accounted for via Company D. As Issuer X does not have financial control over Company E, it will not include Company E's GHG emissions.

Setting operational boundary: Once the organisational boundary is set, Issuer X determines the scope of GHG emissions (i.e. Scope 1, 2 and 3).

Entity	Activities	Scope of emissions	financial c
Issuer X	Leases out a building as a lessor with emissions associated with lessees' use of energy on the premise	Scope 3	approach
Company A	Owns and operates a ship fleet with emissions from mobile combustion	Scope 1	
Company B	Owns a power generation unit with emissions from stationary combustion	Scope 1	
	Owns a building with use of purchased electricity	Scope 2	
Company C	Owns and operates a car fleet with emissions from mobile combustion	Scope 1	
Company D	Leases and operates a factory as lessee with use of purchased electricity	Scope 2	
	Owns a building with use of purchased electricity	Scope 2	

Organisational and operational boundaries of Issuer X54



Understand your operational model

Adopt a

nancial control

Scenario analysis



Selecting your climate scenarios

	IPCC	IEA	NGFS
	(Sixth Assessment Report AR6) (GEC Model)		(Phase IV Scenario)
Remit	Scientific and academic perspectives to assess the climate response to five illustrative	Energy system perspective to explore various scenarios, each of which is	 Convened by a group of central banks and supervisors to bring together a

An overview of **common scenario sources** is provided as the basis for performing scenario analysis

Scenarios	>3°C	•	SSP5-8.5 SSP3-7.0	•	N/A	•	Current Policies
	>1.5°C and <3°C	•	SSP2-4.5 SSP1-2.6	•	Stated Policies Scenario (STEPS) Announced Pledges Scenario (APS)		Below 2°C Delayed Transition National Determined Contributions (NDCs) Fragmented World
	≤ 1.5°C	٠	SSP1-1.9	•	Net Zero Emissions by 2050 Scenario (NZE)	•	Net Zero 2050 Low Demand

Each scenario specifies a given level of **global warming**, making the concept of **high-contrast** scenarios (e.g. ≤ 1.5°C vs >3°C) easier to understand for issuers

Table 3: Overview of publicly available scenario sources³¹

				IPCC		IEA	NGFS	
J			(Six	th Assessment Report AR6)		(GEC Model 2022)		(Phase IV Scenario)
	Remit			Scientific and academic perspectives to assess the climate response to five illustrative scenarios that cover the range of possible future development of anthropogenic drivers of climate change	•	Energy system perspective to explore various scenarios, each of which is built on a different set of underlying assumptions about how the energy system might respond to the current global energy crisis and evolve thereafter	•	Convened by a group of central banks and supervisors to bring together a global, harmonised set of transition pathways, physical climate change impacts and economic indicators
	Characteris	stics	٠	Focuses on the physical science of climate change but also addresses transition risks associated with climate change	•	Focuses on transition risks and opportunities e.g. energy and emissions scenarios describing the future energy mix	٠	Focuses on macro- financial impacts from physical risks, transition risks and opportunities
	Scenarios	>3°C		SSP5-8.5		N/A		Current Policies
١			•	SSP3-7.0				
		>1.5°C and	٠	SSP2-4.5	•	Stated Policies	•	Below 2°C
		<3°C		SSP1-2.6	Scenario (STEPS)	٠	Delayed Transition	
					•	Announced Pledges Scenario (APS)	•	National Determined Contributions (NDCs)
١							٠	Fragmented World
		≤ 1.5°C	٠	SSP1-1.9	•	Net Zero Emissions by 2050 Scenario (NZE)		Net Zero 2050 Low Demand
	Timeframe		٠	Until 2100, granularity depending on data sources	•	Until 2050, granularity depending on data sources	٠	5 year interval until 2050, some indicators depending on model are available up to 2100
	Geographic	coverage	٠	Global	•	Global	•	Global
				Regional data for North America, Europe, Asia, Small Islands, Central and South America, Africa, Australasia Selected country data		Regional data for North America, Central and South America, Europe, Africa, Middle East, Eurasia and Asia Pacific Selected country data	•	Country data for ~200 countries, incl. Mainland China, Hong Kong SAR
-								7

Illustrative case studies of different industries

1 Real estate company

The issuer is a real estate company w and Mainland China. It has conducte The issuer is a logistics compan 3 Manufacturing company climate-related risks that may affect vehicles using internal combust

Key disclosure	Actions by the issuer
areas	
Climate-related	The issuer identifies inc
risks and	derived from sea level
opportunities and	cause disruption to the
business model	drainage capacity. C2 20
and value chain	During the year, an inci issuer's properties in H properties located in th coastal flooding. C2 21
	The issuer expects that term (i.e. 2080), as com time horizons are defin national and governme
Climate resilience	To understand the pote scenario analysis during assets in pre-investmen
	The issuer has already arising from coastal flo level and flood-resista
	In light of recent coast:

2 Logistics company

its profit margin.

ı	Key disclosure	Actions by the is
2	areas	
	Climate-related	The issuer identi
	risks and	climate-related r
	opportunities and	pricing to affect
	business model	using internal co
t	and value chain	It expects that the (i.e. 2025 and 20 taking into account
1	Climate resilience	The issuer has be
		emissions traject
		in the region, the
		issuer. Hence the
		strategy. If carbo
		financial perforn
		To assess the eff
		the amount of c
		C2 26(b)(iii)

Actions by the issuer

Key disclosure

assessment process for one of its ide vehicles ("EVs"). Based on the is The issuer is a manufacturing company of packaging materials with plants in Guangdong pricing as a relevant climate-rel province in Mainland China. With the increased spotlight on climate change such as China's that the issuer carried out on the '30-60' carbon neutrality targets⁸⁵, the issuer is observing a shift in consumer preferences whereby reusable or recyclable materials are increasingly preferred over single-use plastics. The issuer identifies the shift in consumer preference, a climate-related transition risk, as its Actions by the is relevant climate-related risk. The following table sets out the issuer's assessment process for this risk.

r	key disclosure	Actions by the issuer						
	areas							
כ	Climate-related	The issuer expects a gradual consumer shift from single-use plastic to reusable or recyclable						
ł	risks and	materials to impact its business, accelerating the need to upgrade its production lines to						
	opportunities and	accommodate a change from single-use packaging materials to more sustainable packaging						
ι	business model	materials. C2 20(a)-(b)						
•	and value chain	As the issuer anticipates the shift to realise in the next 5 years, its business in Mainland China will be impacted more significantly over the short term (i.e. 2025), as compared to medium						
E		and long term (i.e. 2030 and 2050). The time horizon was selected to align with the issuer's						
€		rive-year strategic planning. C2 20(d), 21						
c	Climate resilience	As part of its 2030 strategy, the issuer already has plans to set aside budget to upgrade						
٦		20% of its production lines that are manufacturing single-use plastics. However, the shift						
f		in consumer preference may come about faster than expected. The issuer highlights						
		uncertainty around the exact time period when the impact will realise, as this may affect its						
		production line upgrade plan. C2 26(a), 30						

Case study – a logistic company measuring its transition risks

Transition risks – increased carbon pricing will result in increasing in operating costs

Approach to scenario analysis and findings

- The issuer uses the expected carbon price of Mainland China from the two selected scenarios under NGFS.
- The issuer also collects its Scope 1 and Scope 2 GHG emissions in the current reporting year and **forecasts** future emissions in 2025, 2030 and 2050 under a "Do nothing" strategy, assuming no decarbonisation efforts will be performed. C2 26(b)(ii)

Do nothing

Source	Variable	Unit	2025	2030	2050
Current Policies	s scenario				
NGFS	Carbon price	US\$/ tCO ₂	-	-	4.45
Company data	Scope 1 & 2 GHG emissions	Tonnes	100	120	140
Net Zero 2050	Net Zero 2050 scenario				
NGFS	Carbon price	US\$/ tCO ₂	80.55	115.48	626.03
Company data	Scope 1 & 2 GHG emissions	Tonnes	100	120	140

• The issuer then quantifies the potential impact of carbon pricing based on the below calculation:

Potential carbon cost (US\$) = Carbon price (US\$/ tCO_2) x Scope 1 & 2 emissions (tonnes)

Variable	Unit	2025	2030	2050
Current Policies scenario	US\$	-	-	623
Net Zero 2050 scenario	US\$	8,055	13,858	87,644

- Based on the analysis, all of the issuer's vehicles will be vulnerable to the risk of carbon pricing. However, it is estimated that under a Net Zero 2050 scenario, carbon costs will be significantly higher than the Current Policies scenario due to more stringent climate policies coming into place.
- To minimise its impacts from carbon pricing, the issuer analyses the use of a "Gradual transition" strategy, where it assumes 100% of its fleet to be renewable, which results in lower levels of emissions as compared to a "Do nothing" strategy. C2 26(b)(ii)

Case study – a logistic company managing its transition risks

Demonstrating climate resilience – disclosure of the replacement of ICE fleet to EV (with timeline and milestone indicated)

As a result of the scenario analysis, the issuer understands that all of its vehicles are vulnerable to carbon pricing, especially under the Net Zero 2050 scenario.

To minimise exposure from a potential increase in operational expenses from carbon pricing, the issuer decides to replace its ICE fleet with EVs and plans to move to 100% EV by 2050. Through the replacement of ICE fleet, the issuer expects a reduction in carbon emissions. C2 22(a)(i)-(ii)

The issuer does not currently have a climate-related transition plan in place. However, to monitor progress in replacing its ICE fleet, the issuer has set a climate-related target, "to reach 70% electric vehicles of its total fleet by 2030, and 100% electric vehicles of its fleet by 2050". The issuer plans to set up a separate workforce to monitor its progress and report its progress on an annual basis to its stakeholders. C2 22(a)(iii)-(iv)

Scenario analysis disclosures - qualitative vs quantitative approaches

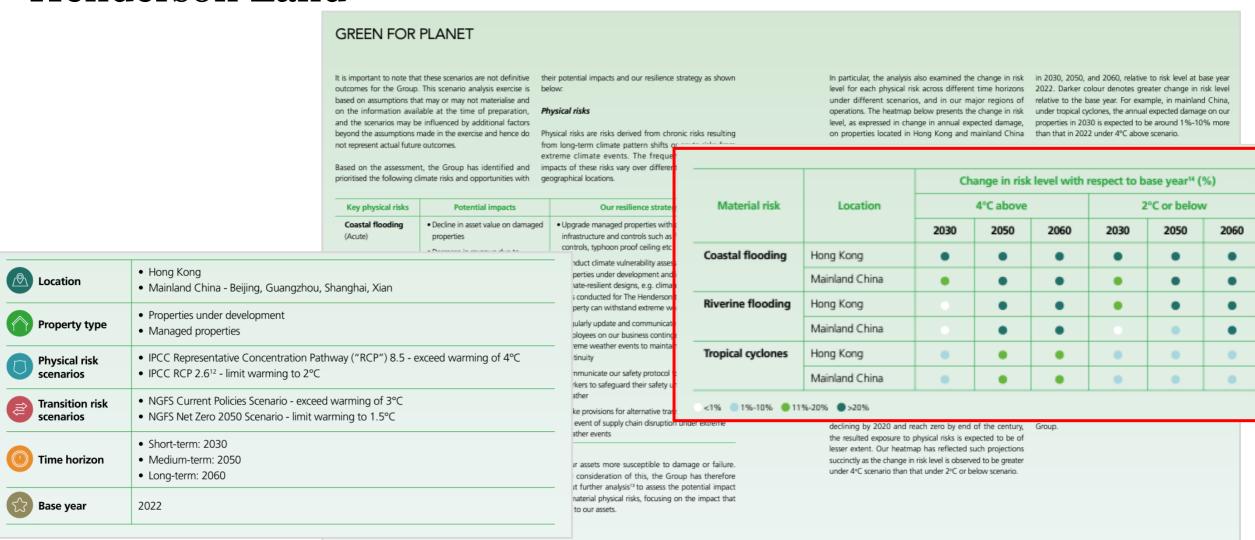
Qualitative na	rratives						
Physical risk	Relevance and assumptions	IPCC	AR6 SSP2	-4.5	IPCC	AR6 SSP5	-8.5
C2 31		Percentage of value at risk (%) Percentage of value at risk			at risk (%)		
		2030	2050	2080	2030	2050	2080
Extreme cold	We assessed how extreme weather	•	•	•	•	•	•
Coastal flooding	 events can impact our asset locations and the potential asset 	•	•	•	•	•	•
Tropical cyclone	value at risk.	•	0	•	•	•	•
Transition risk	Relevance and assumptions	NGF	S Net Zer	o 2050	NGFS	Current P	olicies
C2 30		Percent	age of tot	al cost (%) Percent	age of tota	l cost (%)
		2030	2050	2080	2030	2050	2080
Increasing cost from carbon offsets	We expect higher carbon price may lead to increased fuel and energy costs.	•	•	•	•	•	•
Increasing electricity costs	We assessed how electricity and price increases could impact our energy spend.	•	•	•	•	•	•
Increasing cost to upgrade assets to "green"	We expect increasing regulations related to increasing building efficiency will translate into higher costs.		•	•	•	•	•

Qualitative approach to present the issuer's analysis under different scenarios with **risk scoring** and **qualitative narratives**

Physical risk	Relevance and assumptions	IPCC AR6 SSP2-4.5			IPCC AR6 SSP5-8.5			
C2 31		Percentag	Percentage of value at risk(%)			Percentage of value at risk(%)		
		(Asset v	alue at risk	(HKD))	(Asset v	alue at risk	(HKD))	
		2030	2050	2080	2030	2050	2080	
Extreme cold	We quantified how extreme weather events can impact our asset locations and therefore the	<1% (<0.5m)	<1% (<0.5m)	<1% (<0.5m)	<1% (<0.5m)	<1% (<0.5m)	2-5% (0.5-3m	
Coastal flooding	- potential asset value at risk.	<1% (<0.5m)	<1% (<0.5m)	2-5% (0.5-3m)	<1% (<0.5m)	2-5% (0.5-3m)	6-10% (3-5m)	
Tropical cyclone	-	2-5% (0.5-3m)	2-5% (0.5-3m)	6-10% (3-5m)	2-5% (0.5-3m)	6-10% (3-5m)	10-15% (5-10m)	
Transition risk	Relevance and assumptions	NGFS Net Zero 2050		NGFS Current Policies				
C2 30	2 30 Percentage of total cost			Percentage of total cost				
		, , ,	Potential fir		(%) (Potential financial			
			effect(HKD	•		effect(HKD)	•	
		2030	2050	2080	2030	2050	2080	
Increasing cost from carbon pricing	We quantified how carbon price (e.g. carbon tax) for our Scopes 1 & 2 emissions might impact our construction costs.	<1% (<0.5m)	6-10% (3-5m)	10-15% (5-10m)	<1% (<0.5m)	<1% (<0.5m)	<1% (<0.5m	
. •		2-5%	2-5%	6-10%	2-5%	2-5%	6-10% (3-5m	
Increasing electricity costs	We quantified how the electricity price is expected to change and how this may impact our electricity costs if our consumption remains the same.	(0.5-3m)	(0.5-3m)	(3-5m)	(0.5-3m)	(0.5-3m)	(3-3111	

Quantitative approach to present the issuer's analysis with a range of potential financial implications

Examples of disclosures climate scenario analysis -Henderson Land

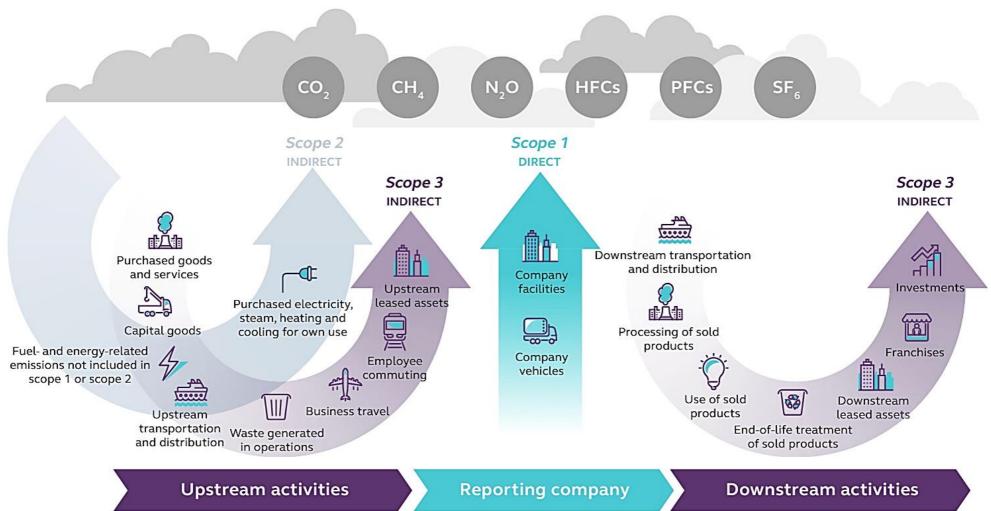


Scope 3 emissions



Identifying Scope 3 emissions across the value chain under the Greenhouse Gas (GHG) Protocol

Overview of GHG Protocol scopes and emissions across the value chain



A construction company calculating Scope 3 GHG emissions

Practical application 15: Overview of inputs to calculate Scope 3 GHG emissions

Input	Methodology	Example ⁶⁶				
Activity data	For Scope 3 GHG emissions, the activity data for collection and its granularity will vary depending on the Scope 3 categories identified ⁶⁷ , and examples include fuel use or passenger miles.	A Hong Kong construction company purchased materials (cement, timber and concrete) for its operations and will be required to calculate				
GHG Protocol suggests different methods (e.g. supplier-specific, average-based, spend- based methods) to account for Scope 3 GHG		each material.				
	emissions, therefore the activity data to be collected may vary. Issuers should determine the extent of	Timber: 100,000 kg Concrete: 50,000 kg				
	quality. (See specific emission fact input data.) operating location. We emission factors are r	rresponding activity er to source- or facility- tors available in the The supplier-specific emission factor has alr converted relevant GHGs into CO ₂ e, so no				

should refer to those published by other

Depending on the Scope 3 categories

identified and the corresponding activity:

data, the GHG involved may be different,

affecting the application of GWP values.

different GHGs may be released. Issuers should account for all the different types of GHGs contained in a product, then

aggregate for all products.

For example, for Category 11 (Use of Sold

Products), depending on the products sold,

using GWP values.

0.001 MT/kg

Estimated Scope 3 Category 1 emissions:

= 65,000kg CO.e × 9.001 MT/kg

= (200,000kg x 0.15 kg CO,e/kg) + (100,000 kg x

0.25 kg CO,e/kg) + (50,000kg × 0.20kg CO,e/kg) >



Estimated Scope 3 Category 1 emissions:

- = $(200,000 \text{kg} \times 0.15 \text{ kg CO}_2\text{e/kg}) + (100,000 \text{kg} \times 0.25 \text{ kg CO}_2\text{e/kg}) + (50,000 \text{kg} \times 0.20 \text{kg CO}_2\text{e/kg}) \times 0.001 \text{ MT/kg}$
- $= 65,000 \text{kg CO}_{2} \text{e} \times 0.001 \text{ MT/kg}$
- = 65 MTCO₂e

A real estate company disclosing Scope 3 GHG emissions

6.3 Advanced - Real estate company

Quantifies absolute gross GHG emissions for all Scope 3 categories

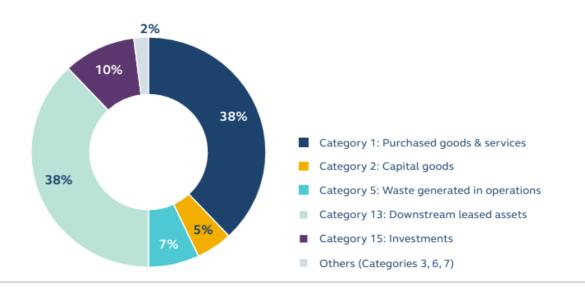
Data table	C2 28(a)-(c)	C2 29(b)
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Scope	Source	Unit	2023	2022	2021
Scope 1	GHG Protocol Emission Factors from Cross-Sector Tools	MtCO₂e	15,375	10,294	11,396
	CLP Power Hong Kong Limited and Hongkong Electric Sustainability Reports	MtCO₂e	38,734	39,081	38,903
Scope 3	See Scope 3 reporting boundary	MtCO₂e	256,153	257,496	259,210



Our approach			
Standard used C2 29(a)	GHG Protocol Corporate and Reporting Standard (2004)		
	GHG Protocol Value Chain (Scope 3) Accounting and Reporting Standard		
Measurement approach C2 29(b)	Operational control due to the ability to take full ownership of all GHG		
emissions we can directly influence and reduce			
Operational boundary	80 assets that are owned and managed in Hong Kong		
	Including Headquarter and operating offices		

Scope 3 GHG emissions breakdown (2023)



Scope 3 data collection: common challenges and how to overcome them

Insights: Common challenges when collecting Scope 3 GHG emissions data⁶⁵



Potential challenges

Guidance to address challenge:

Large number of suppliers



- Target the most relevant suppliers based on spend (e.g. suppliers that contribute to most of the issuer's total spend) and/ or anticipated emissions impact
- Target suppliers over whom the issuer has a higher degree of influence (e.g. contract manufacturers or suppliers where the issuer accounts for a significant share of the supplier's total sales)

Lack of supplier knowledge and experience with GHG inventories and accounting



- Target suppliers with prior experience in developing GHG inventories
- Identify the correct subject-matter expert at the supplier
- Explain the business value of investing in GHG accounting and management (e.g. procurement policy favours suppliers that produce GHG emissions data)
- Request data that suppliers already collect, such as energy-use data, rather than emissions data
- Provide clear instructions and guidance with the data request
- Provide training, support, and follow-up

Lack of transparency in the quality of supplier data



- Request documentation on methodology and data sources used, inclusions, exclusions, and assumptions made, etc.
- Minimise errors by requesting activity data (e.g. kWh electricity used, kg of fuels used), calculating GHG emissions separately (e.g. calculate GHG

Potential challenges

Guidance to address challenges

Confidentiality concerns of suppliers



- Protect suppliers' confidential and proprietary information (e.g. through non-disclosure agreements, firewalls, etc.)
- Ask suppliers to obtain third party assurance rather than submitting detailed activity data to avoid providing confidential information

Operations in multiple industry sectors or jurisdictions



- Prioritise data collection efforts on the activities expected to have the most significant GHG emissions, offer the most significant GHG reduction opportunities and are the most relevant to the company's business goals
- Use a combination of approaches and criteria to identify priority activities e.g. seek higher quality data for activities significant in size, activities that present the most significant risks and opportunities in the value chain, and activities where more accurate data can be easily obtained

Reporting period of value chain entities may be different from the issuer's own reporting period



- Make use of the exception under note 2 to paragraph 29 of the ESG Code, which permits an issuer to measure its GHG emissions using information for reporting periods that are different from its own reporting period, if that information is obtained from entities in its value chain with reporting periods that are different from the issuer's reporting period.
- The above relief is subject to the following conditions:
 - the issuer must use the most recent data available from those entities in its value chain without undue cost or effort to measure and disclose its greenhouse gas emissions;
 - the length of the reporting periods is the same;
 and
 - the issuer discloses the effects of significant

Examples of disclosures of Scope 3 emissions – MTR





The table below lists out our Scope 3 reporting boundaries aligning with our SBTs, the methodologies, and sources of emission factors EFs.

Scope 3 category ^[1]	Calculation methodology and source of emission factor		Scope 3 category ^[1]	Calculation methodology and source of emission factor
1. Purchased goods and services ^[2]	2023 Spend-based method based on capital expenditure on purchase of assets and the corresponding EFs from Supply Chain Greenhouse Gas Emission Factors v1.2 published by the US Environmental Protection Agency (USEPA) 2019 Spend-based method based on capital expenditure on purchase of assets and the corresponding EF from Quantis GHG Protocol Scope 3 Evaluator For emission due to electricity used for processing of water: Hong Kong Water Supplies Department (WSD) Annual Report	5.	Waste generated in operations	Estimated quantity of waste and EFs from the following sources: Guidelines to Account for and Report on Greenhouse Gas Emissions and Removals for Buildings (Commercial, Residential or Institutional Purposes) in Hong Kong published by the EPD and EMSD Carbon Audit Toolkit for Small and Medium Enterprises in Hong Kong published by the University of Hong Kong and the City University of Hong Kong Measuring Emissions: A Guide for Organisations: 2023 Detailed Guide published by the New Zealand Ministry for the Environment Hong Kong Drainage Service Department Sustainability Report
2. Capital goods	2023 Spend-based method based on capital expenditure on developments and the corresponding EFs from Supply Chain Greenhouse Gas Emission Factors v1.2 published by the US Environmental Protection Agency (USEPA) 2019 For railway: spend-based method based on capital expenditure on developments and the corresponding EF from Quantis GHG Protocol Scope 3 Evaluator For IP: Floor areas of IPs and EF for construction carbon emission from an academic paper jointly published by HKUST and Swire Properties	7.	Upstream leased assets [3] 3. Downstream leased assets	Greenhouse gas reporting: conversion factors 2023 published by the UK Department for Energy Security and Net Zero. Number of Hong Kong employee and EF from Quantis GHG Protocol Scope 3 Evaluator Greenhouse Gas Protocol Tenants' emissions estimated by using the energy consumption data published in EMSD Energy Consumption Indicators and Benchmarks and respective floor use distribution in IPs.
Fuel and energy related activities 4. Upstream transportation & distribution	Consumption of fuel and the corresponding EF from Greenhouse gas reporting: conversion factors 2023 published by the UK Department for Energy Security and Net Zero. Scope 2 emission due to electricity consumption and % loss in power transmission and distribution published by the International Energy Agency 2019 For railway: EF from Quantis GHG Protocol Scope 3 Evaluator For IP: floor areas and EF developed by Arup based on carbon emission owing to extraction, production, transportation and T&D loss. A lumpsum spending covering transportation and distribution of goods has been included in Cat 1	[3]	are not relevant as the Corporati Given the nature of our business while the emission due to purch (i.e. not exceeding 33% of entire This category includes Scope 1 a including the following: - Shenzhen Metro Line 4 operate - Hangzhou Metro Line 5 operat - Stockholm Metro operated by - Stockholm commuter rail (Stoc Tech AB in Sweden; - Mälardalen Regional Traffic (Mi - Stockholm-Gothenburg Interci in Sweden; - Elizabeth line operated by MTF - Melbourne's metropolitan rail:	not relevant as the Corporation has no applicable sale of goods and services. Category 14 and 15 ion has no applicable franchises or investments. i, majority of GHG emissions in this category is associated with purchase of goods (e.g. equipment), assed services is comparatively low and well below the threshold to be covered in Scope 3 emission Scope 3 emission as required by SBTI). As such, it is excluded from our Scope 3 reporting boundary and 2 emissions from our majority-owned subsidiaries in Mainland China, Australia, UK and Sweden and 2 emissions (Shenzhen) Limited in Mainland China; ed by Hangzhou MTR Line 5 Corporation Limited in Mainland China; MTR Tunnelbanan AB and its rolling stock maintenance by MTR Tech AB in Sweden; kholms pendeltåg) operated by MTR Pendeltågen AB and its rolling stock maintenance by MTR silartåg) operated by MTR Mälartåg AB in Sweden; ty Express Service (MTRX) with operations being performed by MTR Express (Sweden) AB telizabeth line in London; services operated by Metro Trains Melbourne Pty. Ltd. in Australia; and operated by Metro Trains Sydney Pty. Limited in Australia.

Source: MTR Sustainability Report 2023

Sydney Metro North West Line operated by Metro Trains Sydney Pty. Limited in Australia.

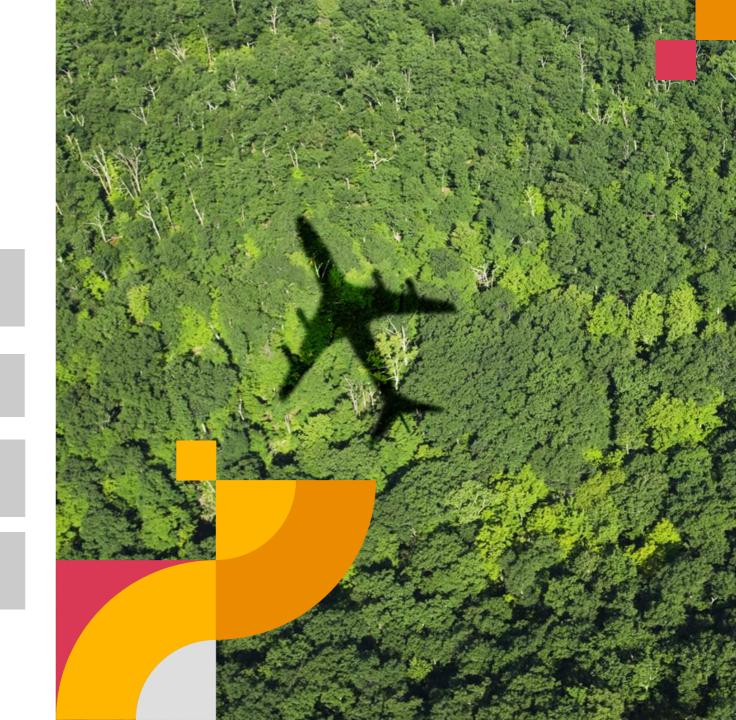
Other topics

Financial position, financial performance and cash flows

Target-setting

Internal carbon pricing

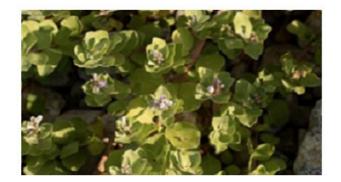
Risk integration



Where to locate the HKEX IG?



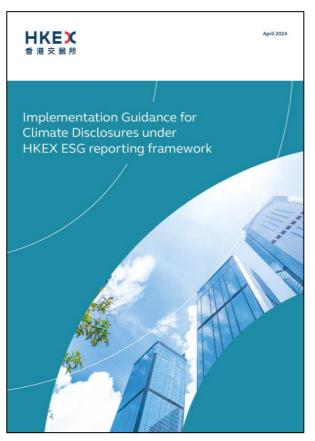
Guides



Implementation Guidance for Climate
Disclosures under HKEX ESG Reporting
Framework (PDF) >

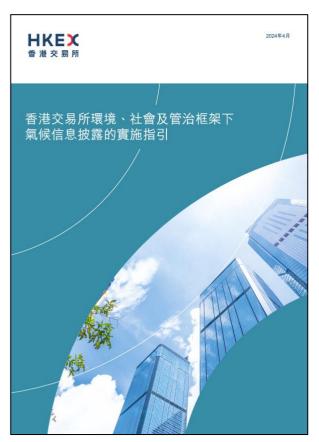


English



Link

Traditional Chinese



Thank You



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Important note:

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