

Training Course:

Establish greenhouse gas reduction targets:

Science-based approach

Instructor:

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Limited

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Remarks: This material/event is funded by the Professional Services Advancement Support Scheme of the Government of the Hong Kong Special Administrative Region. Any opinions, findings, conclusions or recommendations expressed in this material/any event organised under this project do not reflect the views of the Government of the Hong Kong Special Administrative Region or the Vetting Committee of the Professional Services Advancement Support Scheme.









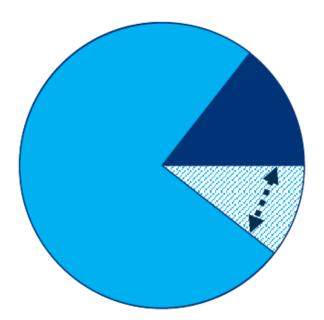




Three key steps in calculating a SBT

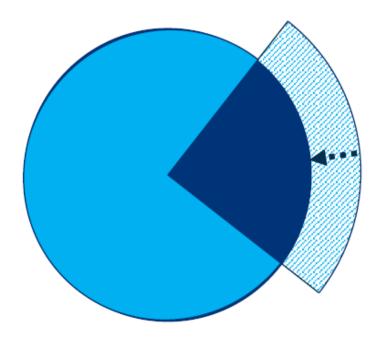
1. Assessing the global carbon budget
How large is the pie?

2. Calculating your business' carbon budget
How large is my slice?



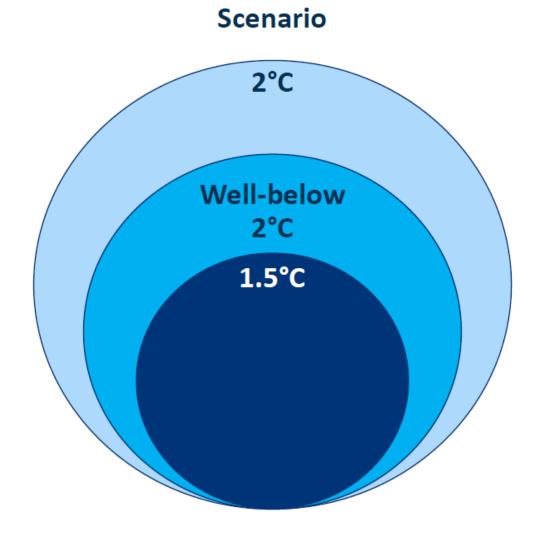
3. Compare your budget and your footprint

Am I eating too much?





Different emissions scenarios



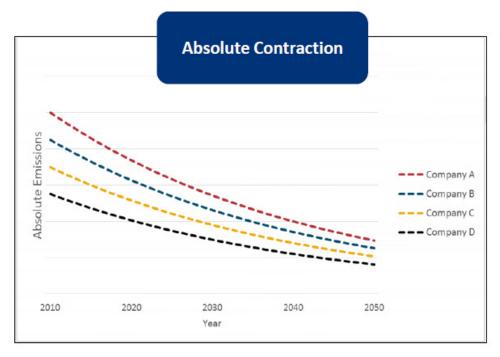
Description

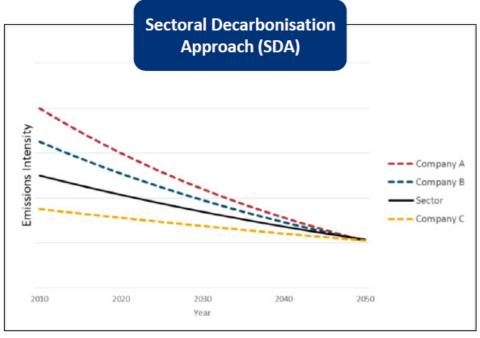
- Limiting warming to 2°C is not longer accepted by the SBTi
- "Well-below 2°C" is equivalent to 1.75°C

1.5°C is current best practice



Different methodology





- Same reduction pathway for all companies within a given timeframe
- Suitable for mixed, heterogeneous sectors
- Can be used for both:
- Well-below 2°C (2.5% linear reduction / year)
- 1.5°C (4.2% linear reduction / year)

- Reduction pathways based on emissions intensity
- Reduction pathways different by sector and recognises current position – i.e. accounts for investments already made
- Currently only available for well-below 2°C



Science-based Target Setting

What is the best approach to apply SBTi since my company is a conglomerate that has many businesses in different sectors?

The company may have to modeled separate sectors, and therefore using absolute contraction is recommended. The combination of SDA for the relevant sectors with absolute approach for others also a great approach.

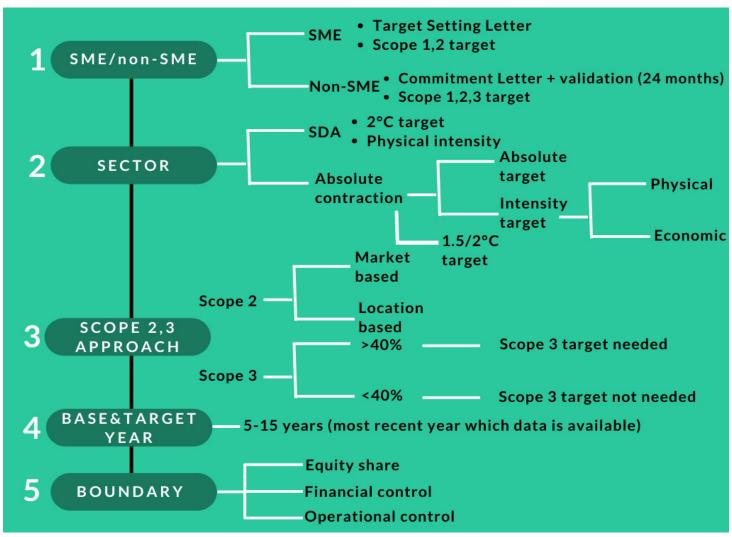






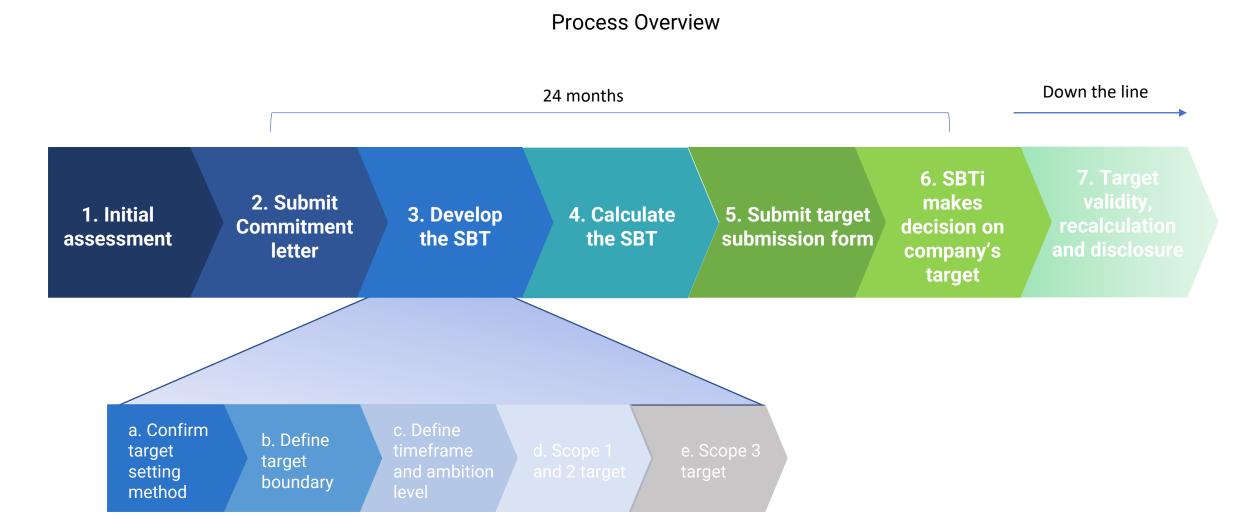
Overview of SBT setting decision tree

Process of setting SBT:





Target setting for standard commitment





1. Initial assessment

Data availability

- Check what activity or GHG emissions data the company has already or is in the process of gathering before committing to set an SBT, for scopes 1,2 and 3
- Ensure a complete and verified GHG inventory following the Greenhouse Gas Protocol Corporate Accounting and Reporting Standard and Scope 2 Guidance, before setting target
- 3. If there is no data available, the company should collect the relevant data for scope 1, 2 and 3, and produce an inventory

SME streamlined route

- Check whether the company fulfills the criteria to be eligible for the SME route
- SBTi defines SME as an independent, non-subsidiary company with fewer than 500 employees
- This does not include Financial Institutions and Oil & Gas companies

1.5°C aligned option

"_____ commits to reduce absolute scope 1 and scope 2 GHG emissions __% by 2030 from a 20 base year, and to measure and reduce its scope 3 emissions."

- ☐ 50% from a 2018 base year
- ☐ 46% from a 2019 base year
- ☐ 42% from a 2020 base year



2. Submit commitment letter

Standard Commitment Letter

- Scope 1 and 2 targets must be in line with <u>well-below 2°C</u> trajectory
- Scope 3 emission reduction target OR customer/supplier engagement targets to align with 2°C if scope 3 emissions make up 40% or more of total scope 1,2 and 3 emissions

Business Ambition for 1.5DS commitment letter

- Launched in June 2019 to normalise ambition levels required to limit warming to 1.5°C
- Scope 3 emission target to align with 1.5°C if scope 3 emissions make up 40% or more of total scope 1,2 and 3 emissions
- Companies with existing SBTs can join this campaign by voluntarily boosting the ambition level of their current targets

Target Setting Letter for SMEs

- As of July 15, 2020, SMEs must submit the Target Setting Letter for SMEs instead of the Standard Commitment Letter
- For Business Ambition for 1.5°C Commitment letter, SMEs shall first submit the SMEs Target Setting Letter. After having an approved target, SMEs can join the campaign through signing the Business Ambition for 1.5°C commitment letter

Once the company has submitted the letter to SBTi:

- The company will be recognised as "Committed" in SBTi's website
- The company has 24 months to complete the target setting steps



Figure 3-1. Main Elements of Methods for Setting SBTs

Carbon Budget

A finite amount of carbon that can be emitted into the atmosphere before warming will exceed specific temperature thresholds

Emissions Scenario

Represents a way of distributing the available carbon budget over time

Allocation Approach

Refers to the way the carbon budget underlying a given emissions scenario is allocated among companies with the same level of disaggregation (e.g. in a region, in a sector, or globally)

Convergence

All companies within a given sector reduce their emissions intensity to a common value by a given year as dictated by a global temperate pathway

Contraction

All companies reduce their absolute emissions or economic emissions intensity at the same rate, irrespective of initial emissions performance

Sectoral Decarbonisation Approach (SDA)

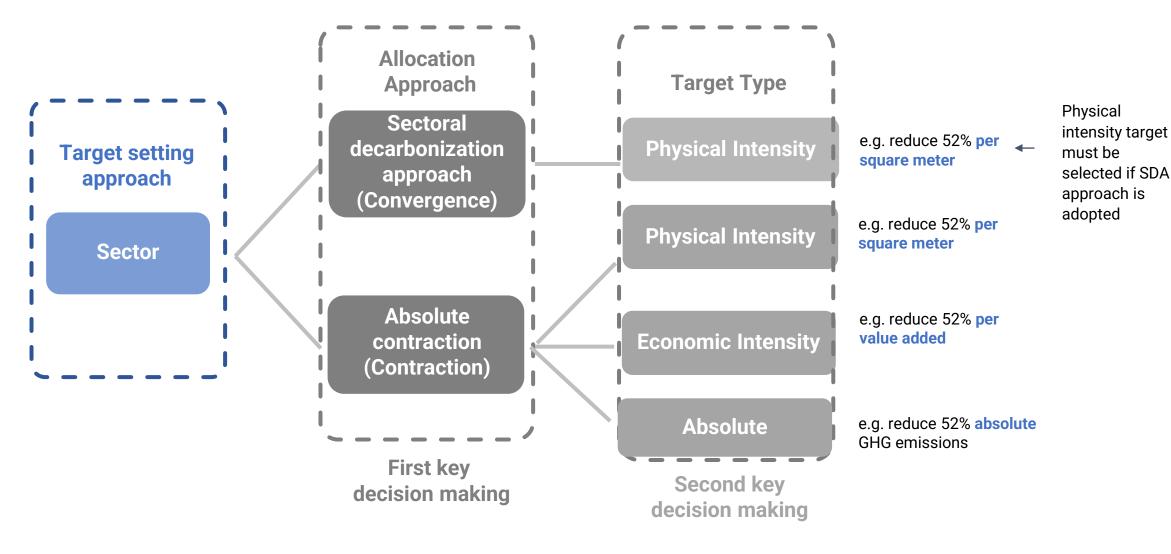
- Setting physical target which takes sector specific mitigation potentials and projected growth into account
- Underlying scenario: beyond 2°C approach
- Fixed activity indicator of intensity target (depends on sector)

Absolute Emissions Contraction

- All companies reduce their absolute emissions at the same rate, irrespective of initial emissions performance
- An absolute emissions reduction target is defined in terms of an overall reduction in the amount of GHGs emitted to the atmosphere by the target year, relative to the base year
- Underlying scenario: well below 2°C and 1.5°C approach
- Companies can convert the absolute target into an intensity target with custom activity indicator



Steps for selecting target type





Science-based Target Setting

Alaya Consulting Ltd.

Environmental Management & Consultancy Service **Alaya Consulting** commits to reduce scope 1 and 2 GHG emissions 47% per m2 by 2023 from a 2017 base year. Alaya Consulting also commits to reduce absolute scope 3 GHG emissions from purchased goods and services, capital goods, waste generated in operations, business travel and employee commuting 7% by 2023 from a 2017 base year.

WE'VE HAD OUR SCIENCE-BASED TARGET APPROVED



Situation

Founded in 2014, Alaya Consulting has been advising listed companies on ESG disclosure, assurance and GRI certified training. Positioning itself as the leading facilitator of corporate sustainability, Alaya practices what it preaches. We not only have our own environmental policy and a defined recycling initiative but also manage our carbon footprint scrupulously.

Predominantly an office-based operation, Alaya consumes a relatively small amount of energy. Nevertheless, we believe it is critical for us to be a part of the solution to set our own carbon reduction target. We follow the methodology advocated by SBTi, a collaboration between CDP, the UN Global Compact, the World Resources Institute and the World Wide Fund for Nature. Targets adopted by companies to reduce greenhouse gas emissions are considered "science-based" if they are in line with the level of decarbonization required to keep global temperature increase below 2 degrees Celsius compared to pre-industrial temperatures.

Challenge

There was no ESG consultancy in Asia having approval from SBTi for its science-based target. To qualify for an approved SBT, Alaya's carbon reduction strategy was required to demonstrate its alignment with the Paris Agreement (the 2-degree Celsius commitment), meeting a set of stringent sector-based emissions reduction targets for Scope 1, 2 and 3 emissions. Leveraging on in-house capability on carbon accounting and consulting, we have intensively examined the SBT manual and identified critical decisions impacting target setting, for example, selecting the base year and target year, conducting Scope 3 screening, and more importantly, how can we be confident that the target is attainable.

Outcome

Alaya Consulting is the first ESG consultancy in Asia to receive approval from SBTi regarding carbon reduction target. We are committed to reduce Scope 1 and 2 GHG emissions by 47% per square meter by 2023, from the base year 2017. Scope 3 GHG emissions from purchased goods and services, capital goods, waste generated in operations, business travel and employee commuting are to be reduced 7% by 2023 from the base year 2017. By having our own SBT, which forms an integral part of our carbon disclosure strategy aligning with TCFD recommendations, we show by example to corporates in Hong Kong and China how they can contribute to a sustainable environment for business and for future generations.



Case study: Apparel peer overview

Target Type	Company	Approved Target	Adopted Approach	Target timeframe
А	PVH Corp.	American clothing company PVH commits to reduce absolute scope 1, 2 and 3 GHG emissions by 30% by 2030 from a 2017 base year. PVH also commits to increase annual sourcing of renewable electricity from 22% in 2018 to 100% by 2030.	Absolute contraction- absolute	13 years
Α	Ramatex	Ramatex Industrial (Suzhou) Ltd commits to reduce absolute 1+2+3 GHG emissions 25% by 2025 from a 2019 base year.	Absolute contraction- absolute	6 years
В	NIKE, Inc.	American multinational corporation NIKE, Inc. sets a target to reduce absolute scope 1 and 2 GHG emissions 65% by 2030 from a 2015 base year. NIKE, Inc. also sets a target to reduce absolute scope 3 GHG emissions 30% within the same timeframe	Absolute contraction- absolute	15 years
С	American Eagle Outfitters, Inc.	American Eagle Outfitters commits to reduce absolute scope 1 and scope 2 GHG emissions 80% by 2030 from a 2018 base year. American Eagle Outfitters also commits to reduce absolute scope 3 GHG emissions from purchased goods and services and capital goods 40% by 2030 and 60% by 2040, from a 2018 base year.	Absolute contraction- absolute	22 years
С	ASICS Corporation	ASICS Corporation commits to reduce absolute scope 1 and 2 GHG emissions 38% by 2030 from a 2015 base year. ASICS also commits to reduce scope 3 GHG emissions from purchased goods and services and end-of-life treatment of sold products 55% per product manufactured by 2030 from a 2015 base year	Absolute contraction- Physical intensity	12 years
С	Salvatore Ferragamo Group	Salvatore Ferragamo Group commits to reduce absolute scope 1 and scope 2 GHG emissions 42% by 2029 from a 2019 base year. Salvatore Ferragamo Group also commits to reduce absolute scope 3 GHG emissions from purchased goods and services and downstream transportation and distribution 42% over the same period.	Absolute contraction- absolute	10 years
D	Zalando SE	Zalando commits to reduce scope 1 and 2 GHG emissions 80% by 2025 from a 2017 base year. Zalando also commits to <i>increase annual sourcing of renewable electricity</i> from 34% in 2017 to 100% by 2025. Zalando commits to reduce scope 3 GHG emissions from private label products 40% per €m Gross Profit by 2025 from a 2018 base year. Zalando also commits that 90% of its suppliers by emissions covering purchased goods and services sold on its platform, packaging and last-mile-delivery partners will have science-based targets by 2025.	Absolute contraction- economic intensity Supplier engagement	7 years

Pros and Cons of each target type

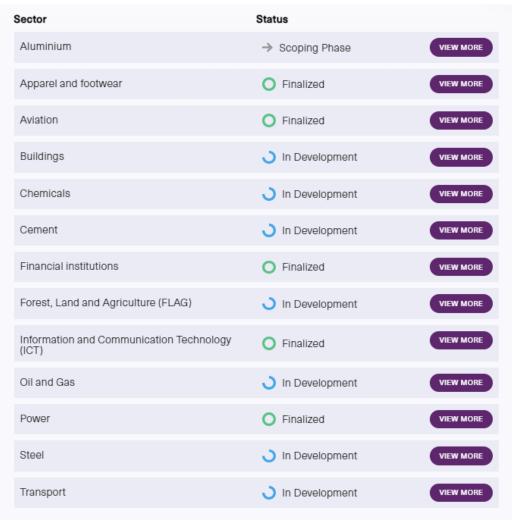


- Environmentally robust and more credible to stakeholder
- χ Target may be **more challenging** to achieve of the company growth is linked to GHG emission
- ✓ Reflects GHG performance and efficiency improvements independent of business growth or decline
- χ Risk of being seen as less credible to stakeholders because absolute emissions may rise even if intensity decreases (e.g. because output increases more than GHG intensity decreases)
- χ Companies with diverse operations may find it difficult to define a single physical intensity common business metric

- ✓ Appropriate for sectors with limited fluctuations in product prices over time, where growth in emissions is often tied to economic growth of the company
- χ Less environmentally robust
- χ Economic intensity indicators are subject to extrinsic factors that can lead to apparent changes in a company's carbon intensity that are not linked to its environmental performance (e.g., fluctuation of commodity prices and inflation, etc.)
- χ May not correlate with emissions tied to physical production processes, especially for sectors with high price fluctuations.
- ☐ Companies are required to reduce their GEVA by 7% per year (compounded)
- ☐ Only applicable for scope 3 target-setting



Sector-specific resources



- For some sectors / industries, separate sector-specific methodologies, frameworks and requirements have been developed.
- If a company's sector is not listed here (or if it's sectorspecific project is not finalized), the company should use SBTi's core methodologies and resources to set their targets.

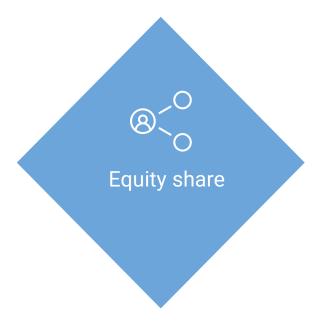


Source: SBTi

3b. Define target boundary



- A company accounts for 100% of the emissions from operations at which it has the <u>full authority</u> to introduce and implement operating policies
- It does not account for any of the emissions from operations in which it owns an interest but does not have operational control



- A company accounts for GHG emissions from operations according to its share of equity in the operation
- The equity share reflects economic interest, which is the extent of rights a company has to the risks and rewards flowing from an operation



A company accounts for 100% of the emissions from operations at which it can direct financial and operating activities with a view to gaining economic benefits from those activities



Science-based Target Setting

For scoping, when it says "all company-wide", does a company need to include "associates" and other businesses that are without controlling interests (financial)?

Each company should follow the organizational boundary approaches outlined in the GHG protocol. Depending on the company you may choose a Financial Control approach, an Operational control approach or an Equity Share approach.



3c. Define timeframe

Select a base year



Data Availability

✓ Verifiable data on scope 1, 2 and 3 emissions



Representative of a company's typical GHG profile

✓ Do not have unusual fluctuations in emissions



Base year should be chosen such that the target has sufficient forward-looking ambition

√The target should aim at promoting actions that have not yet been accomplished

X Targets that have already been achieved by the date they are submitted to the SBTi are not acceptable

- SBTi recommends choosing the most recent year for which data are available as the base year
- The most recent completed GHG inventory must not be earlier than 2 years

Regarding Covid-19:

- Companies significantly affected by Covid-19 can use 2019 as their base year instead of 2020 or 2021, or use the multi-year average base year approach
- In 2022, the SBTi will make an exception for acceptable most recent year inventories, allowing 2019, 2020, 2021, or 2022



3c. Define timeframe

Select a target year

Short-term Target

- ✓ Provokes greater accountability
 - Create more ownership among employees who may still be working at the company in the target year
- ✓ Motivate practical strategies that have a shorter planning cycle
- X Cannot implement large-scale/long-term initiatives to achieve the target

Long-term Target

- Long-term target can facilitate initiatives and investments of larger-scale to reduce carbon emissions
- X Longer target period may introduce uncertainties

Determining Factors

- Projections of business expansion
- Budget of the project
- Level of ambition

SBTi on long-term targets:

- Long-term targets cover more than 15 years from the date of submission
- SBTi encourages companies to develop mid term targets
- At a minimum, long-term targets must be consistent with well-below 2°C
- SBTi recommends using the same base and target years for mid and long term targets

Target timeframe requirement: minimum of 5 years and a maximum of 15 years



3c. Define ambition level



Level of ambition

At a minimum, scope 1 and scope 2 targets must be consistent with the level of decarbonization required to keep global temperature increase to well-below 2°C compared to preindustrial temperatures, though companies are encouraged to pursue greater efforts towards a 1.5°C trajectory

Allocation approach

Intensity targets for scope 1 and scope 2 emissions are only eligible when they lead to absolute emission reduction targets in line with climate scenarios for keeping global warming to well-below 2°C or when they are modelled using an approved sector pathway applicable to companies' business activities.

Method validity

Targets must be modelled using the latest version of methods and tools approved by the initiative

Offsets

The use of offsets must not be counted as emissions reduction toward the progress of companies' sciencebased targets

SBTi requires companies set targets based on emission reductions through direct action within their own boundaries/value chains Offsets lead to emissions reductions outside of company's own operations or value chain

Avoided emissions

Fall under a separate accounting system from corporate inventories and do not count toward science-based targets

Recommended

Choosing an approach: The SBTi recommends using the most ambitious decarbonisation scenarios that lead to the earliest reductions and the least cumulative emissions



3d. Scope 1 and 2 target

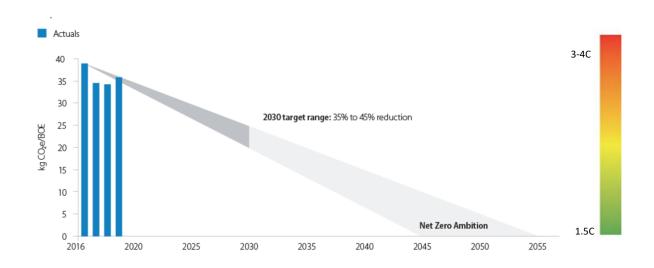
Criteria and recommendations

Scope 1 and 2 targets should:

- Cover at least 95% of company-wide scope 1 and 2 emissions.
- Be consistent with the well-below 2°C pathway by 2100, including associated 2030 and 2050 emissions requirements

The GHG Protocol Corporate Standard requires that:

 Direct CO2 emissions from the combustion of biomass be included in the public report, but reported separately from the scopes, rather than included in scope 1.



Illustrative chart of emissions intensity trajectory aligned to well-below 2C for scope 1 and 2



Science-based Target Setting

Are biogenic carbon emissions included in the SBTi?

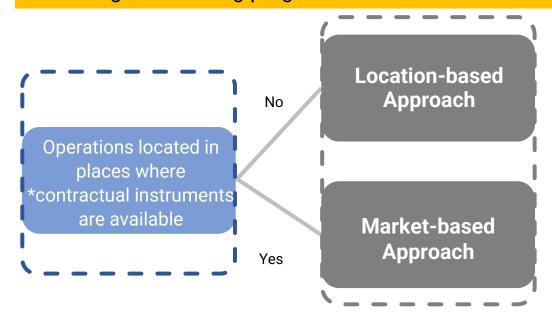
Based on the SBTi criteria, direct emissions from the combustion of biomass and biofuels, as well as GHG removals associated with bioenergy feedstock1, must be included alongside the company's inventory and must be included in the target boundary when setting a science-based target and when reporting progress against that target. If biogenic emissions from biomass and biofuels are considered climate neutral, the company must provide justification of the underlying assumptions.



3d. Scope 1 and 2 target

<u>Determining Scope 2 accounting approach</u>

Companies shall use a single, specified scope 2 accounting approach (location-based or market-based) for setting and tracking progress toward an SBT.



- Reflects the average emissions intensity of grids on which energy consumption occurs (using mostly grid-average emission factor data)
- Only regional grid average and national production emission factors can be used
- Reflects emissions from electricity that companies have purposefully chosen (or their lack of choice)
- Other than regional grid average emission factors, supplierspecific and contractual instrument emission factors can be used
- Can reflect emissions reductions from purchasing contractual instruments (i.e. Renewable Energy Certificate (REC))

*Definition of contractual instruments in GHG Protocol Scope 2 Guidance:

Any type of contract between two parties for the sale and purchase of energy bundled with attributes about the energy generation, or for unbundled attribute claims, e.g. energy attribute certificates (RECs)



3d. Scope 1 and 2 target

Renewable Energy Certificate (REC)

Renewable Energy Certificate in Hong Kong (HK Electric & CLP)

Sold in blocks of 100 units of electricity
\$0.5 per unit

1 unit = 1 kWh of energy generated from local renewable
energy source
Purchased unit will be shown on the electricity bill



Participating in the Scheme





HK Electric to allocate REC on a first-come-firstserved basis while REC inventory lasts



HK Electric to charge purchaser the cost of REC via electricity hill





HK Electric to dispatch electronic copy of REC after payment has been settled



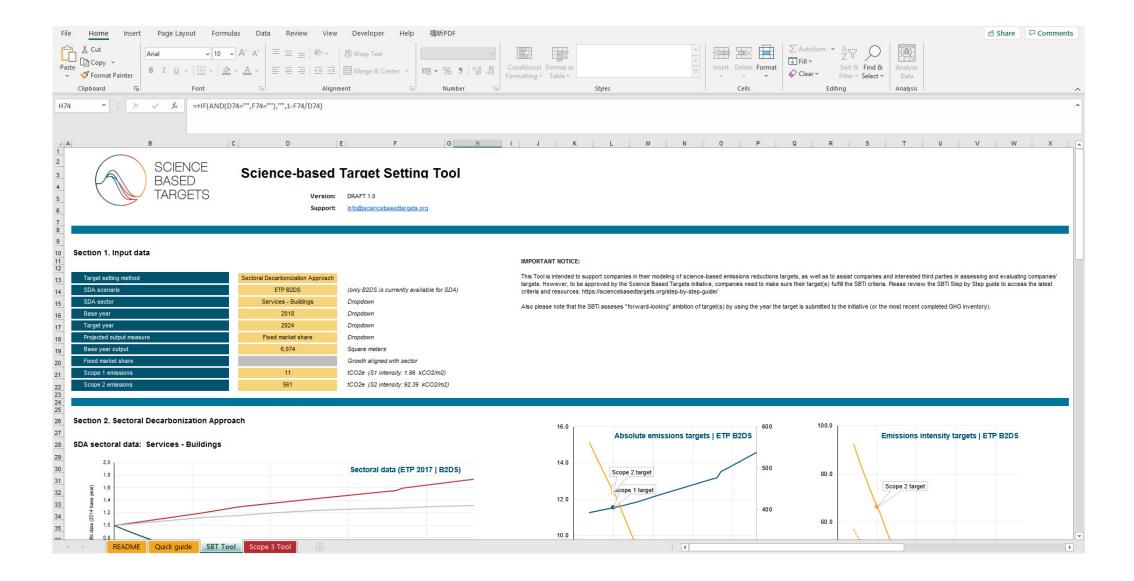
Science-based Target Setting

Can we off set emissions by buying carbon credits / renewable electricity?

Offsets are not recognized as one of the strategies to set the SBTs. Renewable energy instruments such as renewable energy certificates (RECs) should only be used to meet reductions of scope 2 emissions using the market based approach. Please see the <u>GHG Protocol Scope 2 Guidance</u> for further guidance on scope 2 accounting.



Target Computation – Target Setting Tool





Target Computation – Scope 1 & 2

Section 1. Input data

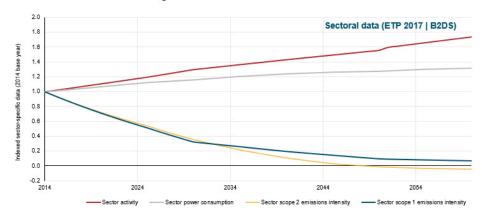
Target setting method	Sectoral Decarbonization Approach	
SDA scenario	ETP B2DS	(only B2DS is currently available for SDA)
SDA sector	Services - Buildings	Dropdown
Base year	2018	Dropdown
Target year	2024	Dropdown
Projected output measure	Fixed market share	Dropdown
Base year output	6,074	Square meters
Fixed market share		Growth aligned with sector
Scope 1 emissions	11	tCO2e (S1 intensity: 1.86 kCO2/m2)
Scope 2 emissions	561	tCO2e (S2 intensity: 92.39 kCO2/m2)



Target Computation – Scope 1 & 2

Section 2. Sectoral Decarbonization Approach

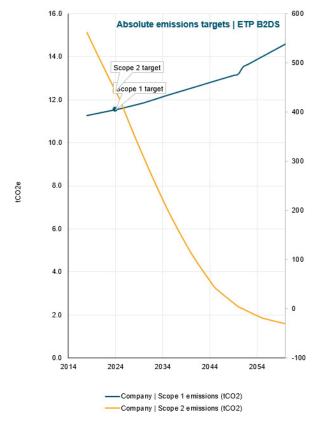
SDA sectoral data: Services - Buildings

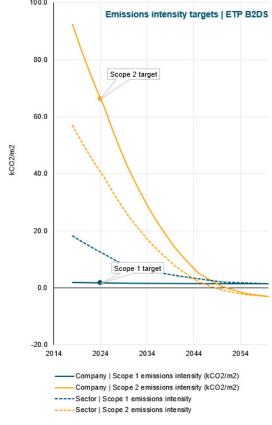


IEA ETP B2DS scenario

Review all target modelling data

	Base year (2018)	Target year (2024)	% Reduction
Company Scope 1 emissions (tCO2)	11.3	11.5	-2.4%
Company Scope 2 emissions (tCO2)	561.2	442.9	21.1%
Company Scope 1+2 emissions (tCO2)	572.4	454.5	20.6%
Company Scope 1 emissions intensity (kCO2/m2)			
Company Scope 2 emissions intensity (kCO2/m2)			
Company Scope 1+2 emissions intensity (kCO2/m2)			







Process Overview

Conduct Scope 3 screening with the template and tool	2. Establish inventory for significant emission hotspots	3. Determine key drivers for reduction and evaluate reduction potential	4. Model reduction roadmaps to determine emissions reduction trajectory	
Determine if a target should be set using scope 3 screening criteria	Establish inventory that have potential to influence reductions	Develop scenarios trajectories and reduction roadmaps	Set Scope 3 reduction target(s)	
Criteria	Upstream or downstream	Scope 3 category		
 A scope 3 target is required if a company's relevant scope 3 emissions are 40% or more of total scope 1, 2, and 3 emissions Scope 3 targets should cover at least ½ of total scope 3 emissions Companies should calculate emissions from the scope 3 categories in which they 	Upstream scope 3 emissions	 Purchased goods and services Capital goods Fuel- and energy-related activities (not included in scope 1 or scope 2) Upstream transportation and distribution Waste generated in operations Business travel Employee commuting Upstream leased assets 		
	Downstream scope 3 emissions	 Downstream transportation and distribution Processing of sold products Use of sold products End-of-life treatment of sold products Downstream leased assets Franchises Investments 		

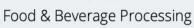


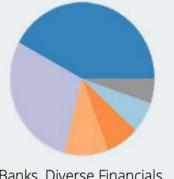
3e) Scope 3 target Relevance of scope 3 categories in different sectors

Source: WWF 2019 Discussion Paper OVERCOMING BARRIERS FOR CORPORATE SCOPE 3 ACTION IN THE SUPPLY CHAIN

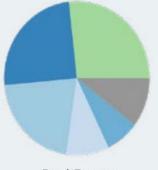








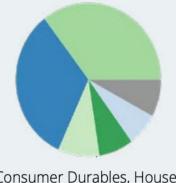
Banks, Diverse Financials, Insurance

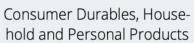


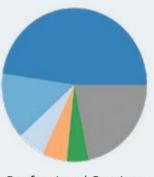
Real Estate



Equipment







Professional Services



Capital Goods

Fuel-and-enery-related activities (not included in Scope 1 or 2)

Upstream transportation and distribution

Waste generated in operations

Business travel

Employee commuting

Upstream leased assets



Processing of sold products

Use of sold products

End of life treatment of sold products

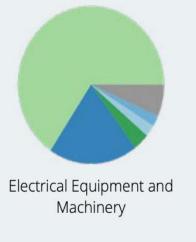
Downstream leased assets

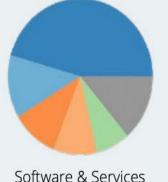
Franchises

Investments

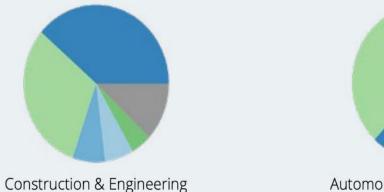
Others

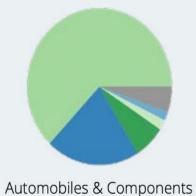
3e) Scope 3 target Relevance of scope 3 categories in different sectors













Purchased Goods and Services

Capital Goods

Fuel-and-enery-related activities (not included in Scope 1 or 2)

Upstream transportation and distribution

Waste generated in operations

Business travel

Employee commuting

Upstream leased assets



Processing of sold products

Use of sold products

End of life treatment of sold products

Downstream leased assets

Franchises

Investments

Others

Source: WWF 2019 Discussion Paper OVERCOMING BARRIERS FOR CORPORATE SCOPE 3 ACTION IN THE SUPPLY CHAIN



Challenges in setting and meeting scope 3 targets

Lack of transparency regarding the relevance

of scope 3 emissions

The usual lack of high-quality data requires different management approaches in comparison to scope 1 and 2 and the staff responsible for GHG emissions management need to be encouraged not to wait with supply chain action until the data quality is perfect

Lack of personnel resources and know-how hinders companies with their analysis and management of scope 3 emissions

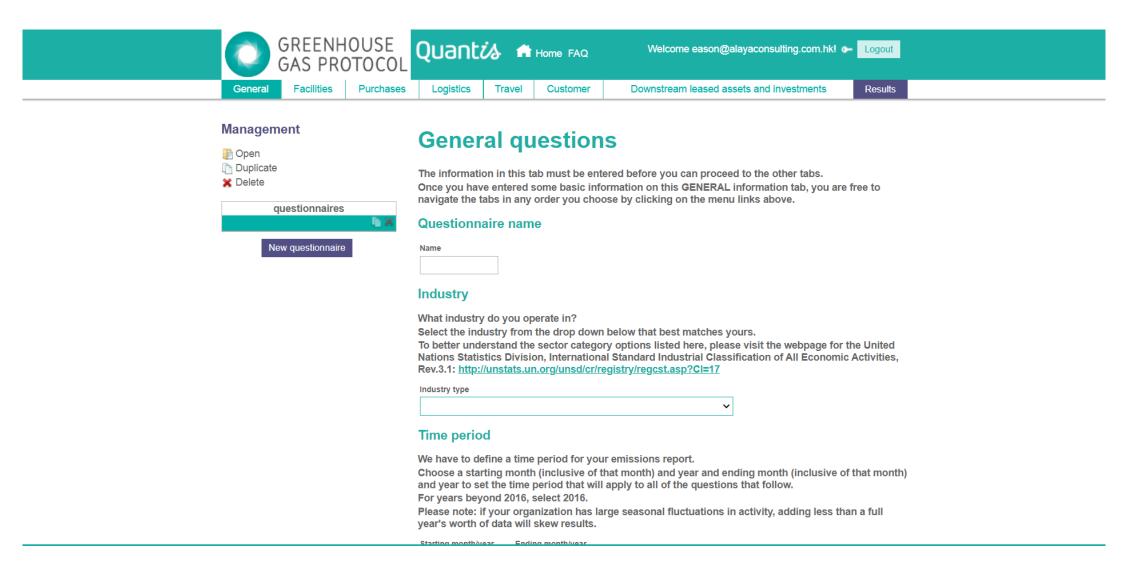
- The more complex the organisational structure is, the more challenging the data collection and calculation
- Every single one of the 15 categories has its own logic and calculation approach and scope 3 data collection always involves interaction with different departments and external suppliers to gather activity data and find suitable emission factors

Lack of possibility to influence and lack of cooperation along the value chain hinders companies from successfully managing scope 3 emissions

- Difficult to challenge suppliers on GHG emission reductions if a company does not have sufficient market power
- Market penetration of a low-carbon product with lower use phase emissions may require customer demand and an adequate policy environment in order to effectively reduce scope 3 emissions

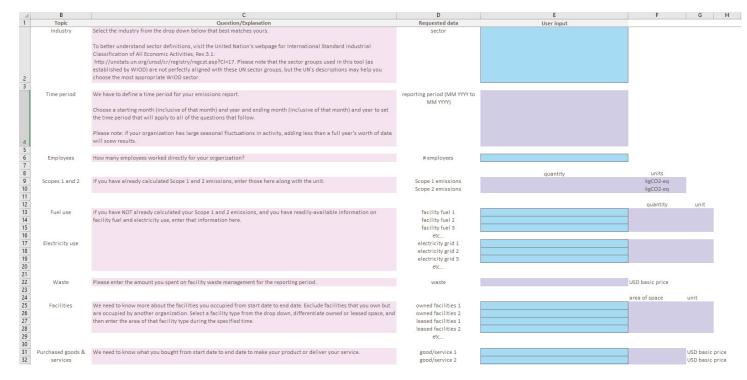


Scope 3 Screening – Quantis





Scope 3 Screening – Quantis



Scope 3, Category 1: Purchased goods and services

(On the PURCHASES tab) For any purchase types identified by the user as Standard Good or Service, the sector of purchase chosen by the user is linked to a 2009 world multiregional estimate of average environmental impacts by region-sector combined with global warming potential impact assessment (Timmer 2012, IPCC 2007). The reference flow quantity is provided by the user in the form of purchase quantity in basic price USD.

Scope 3, Category 2: Capital goods

(On the PURCHASES tab) For any purchase types identified by the user as Capital Good (regardless of Direct Procurement or Indirect Procurement), the identified sector of purchase points to a 2009 world multiregional estimate of average environmental impacts by region-sector combined with global warming potential impact assessment (Timmer 2012, IPCC 2007). The basic price USD purchase quantity entered by the user is the reference flow quantity.

Scope 3, Category 3: Fuel- and energy-related activities

(On the FACILITIES tab) It is <u>determined if the user has already calculated Scope 1 and 2 emissions</u>:



General questions

The information in this tab must be entered before you can proceed to the other tabs.

Once you have entered some basic information on this GENERAL information tab, you are free to navigate the tabs in any order you choose by clicking on the menu links above.

Questionnaire name

Name		

Industry

What industry do you operate in?

Select the industry from the drop down below that best matches yours.

To better understand the sector category options listed here, please visit the webpage for the United Nations Statistics Division, International Standard Industrial Classification of All Economic Activities, Rev.3.1: http://unstats.un.org/unsd/cr/registry/regcst.asp?Cl=17

Industry type	
	~

Time period

We have to define a time period for your emissions report.

Choose a starting month (inclusive of that month) and year and ending month (inclusive of that month) and year to set the time period that will apply to all of the questions that follow.

For years beyond 2016, select 2016.

Please note: if your organization has large seasonal fluctuations in activity, adding less than a full year's worth of data will skew results.

Starting month	year	Ending month/y	/ear
~	~	~	~

Employees

How many employees worked directly for your organization?



No. employees

Owned and operated-facilities questions

Scopes 1 and 2?

If your company has already calculated its Scope 1 and Scope 2 emissions, please fill them in for your reporting period start date to end date.

☐ I have calculated Scope 1 and 2 emissions

Do you have readily-available expenditure or use data on facility fuel and electricity use?

☐ I have readily-available expenditure data on facility fuel and electricity use

Facilities

We need to know more about the facilities you occupied from start date to end date. Exclude facilities that you own but are occupied by another organization. If you have already included leased facility emissions in your scope 1 and 2 data, do not list those spaces here. Select a facility type from the drop down, select whether your own or lease the space, and then enter the area of that facility type during the specified time. Add additional facility types by clicking the "add more" button.

Facility type	Owne	d or leased?	Area	unit	
	~	~		~	×
	~	~		~	×
Add more types					

Waste

Please enter the amount you spent on facility waste management for the reporting period.

USD	(basic	price)

Purchased goods and services questions

Purchased goods and services

We need to know what you bought from start date to end date to make your product or deliver your service.

Select a product or service type from the drop down and enter the amount of money (in basic price) that you spent on it during the specified time. Make sure to include services like legal and accounting. Add additional product and service types by clicking the "add more" button. Note: please do not include transport-related fuels and building utilities (e.g., automobile fuel).

Disclaimer: there is a potential for double-counting if the user does not exclude facility fuel, waste, and electricity expenses from these inputs.

Purchase type	Broad sector of purchase	Purchases, USD (basic prices)	C
Standard goo 🗸	Electricity, Gas and Water Supply		×
Service ~	Transport Equipment		×
Capital good 🗸	Pulp, Paper, Paper , Printing and Publishing		×

Add more types

Transportation and distribution questions

Vehicle

Do you own or lease any trucks, planes, trains, boats or automobiles (including company cars for employees)?

Yes, I own or lease vehicles

Third-party transport

We need to know how much you spent from start date to end date on third-party transport (e.g., ocean freight, air freight).

Select a transport type from the drop down and enter the amount of money (in basic prices) that you spent on it during the specified time. Add additional transport types by clicking the "add more" button.

Third-party transport type USD (basic prices)

Air freight

✓

Rail freight
✓

Add more types

Third-party distribution

We need to know how much you spent from start date to end date on third-party distribution (e.g., warehousing, upstream transportation and distribution, or downstream transportation and distribution).

Select a distribution type from the drop down and enter the amount of money (in basic prices) that you spent on it during the specified time. Add additional types by clicking the "add more" button.

Distribution type USD (basic prices)

Add more types



Business travel questions

Business travel

Have you already calculated your business travel emissions and do you have the results readily available?

☐ I can provide business travel emissions

We need to know either how much you spent or the distance traveled and number of nights spent in a hotel, from start date to end date, on business travel.

Select a business travel activity from the drop down and enter the amount of money that you spent on it (in basic prices) or the distance traveled (or number of nights spent in a hotel) during the reporting period.

Add additional business travel activities by clicking the "add more" button.

Enter spend:

Activity	USD (basic prices)	
Airplane 🗸	2	Ç
Add more ty	pes	

Enter distance or nights in hotel:

Activity Qty unit

Add more types

Downstream leased asset and investment questions

Downstream leased assets

✓ Are there any other leased assets that you have not accounted for using this tool OR did you use equity share to calculate your scope 1 and 2 emissions?

We need to know what, if any, income you received from start date to end date for leased assets that you own or franchises that you contract with.

First choose the asset type (facility or vehicle type, or franchise). Then, enter the income you received from it.

Asset type	USD (basic p	rices)
Office	~	×
Add more types		

Franchises

☐ Is your organization a franchisor?

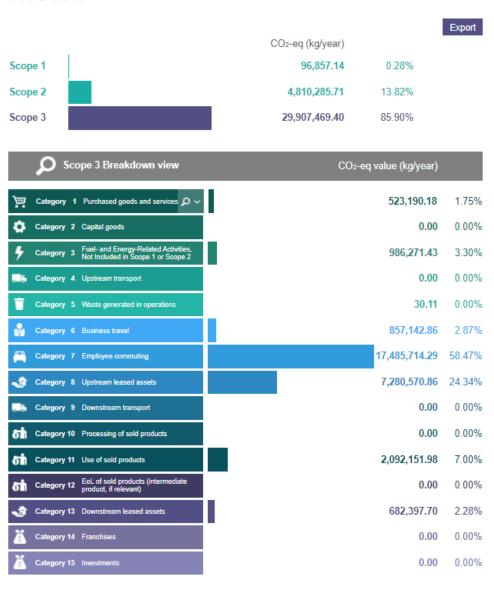
Investments

☐ I have investments in joint ventures, subsidiaries, or associate companies that were not captured in my Scope 1 emissions



Scope 3 Screening – Results (sample)

Results





3e. Scope 3 Target

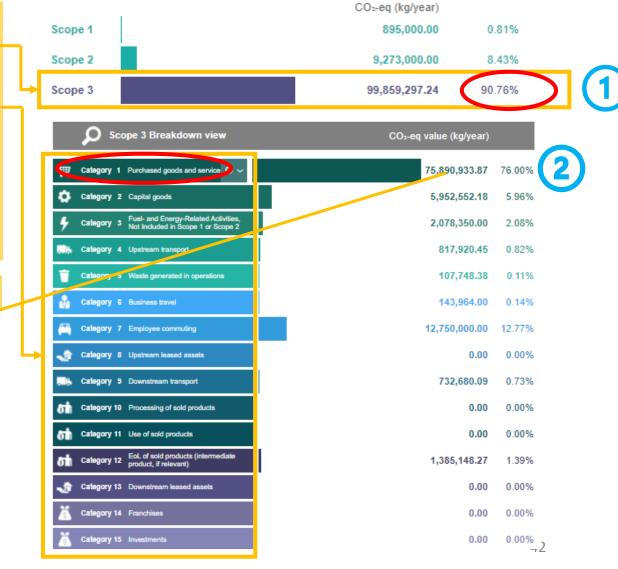
Case Study: Screening Result Initial Analysis

Per SBTi target setting manual:

- Client's scope 3 emissions is over 40% of the total emissions → Scope 3 target must be set
- Companies should calculate emissions from scope 3 source from <u>15 categories</u> at which they have the **potential** to influence GHG reductions
- 3. The **Scope 3 target boundary** should include <u>the majority of value</u> chain emissions:
 - the top three emissions source categories or
 - two-thirds of total scope 3 emissions

Client to set a specific Scope 3 target for category 1

Category 1 Purchased goods and service O ~	75,890,933.87	76.00%
Breakdown view		
Pulp, Paper, Paper , Printing and Publishing	98,019.55	0.13%
Chemicals and Chemical Products	1,238,848.96	1.63%
Textiles and Textile Products	74,554,065.36	98.24%





3e. Scope 3 Target

Example: Determine key drivers for reduction

Scope 3 Category	Reduction Initiative (Scope 3 Category 1 - Purchased goods & services)	Adopted by
Cat.1 - Textile & Textile Products	1. Increased use of recyclable, reusable or sustainability sourced materials (e.g. BCI cotton, recycled polyester, nylon)	 Hugo Boss Ralph Lauren Corporation PVH Corp Kering American Eagle Outfitters CHANEL ALDO Group VF Corporation Lenzing AG Skunkfunk EILEEN FISHER Salvatore Ferragamo Group Nike Lululemon PUMA SE
Cat.1 - Textile & Textile Products	2. Recycled materials are reprocessed from reclaimed material and made into a new product or product ingredient	VF CorporationLenzing AGNike
Cat.1 - Packaging materials	 3. Source packaging materials from sustainable sources (e.g. FSC-certified paper tags, recycled cardboard) Ralph Lauren: Inventoried every material used in product packaging and identified items that met their sustainability criteria and items that will either stop using or transition to more sustainable sources 	 PVH Corp Ralph Lauren Corporation Zalando SE ALDO Group Lenzing AG Salvatore Ferragamo Group Nike
Cat.1 - Packaging materials	 4. Reduce and eliminate packaging Work with suppliers or retail brands to eliminate, reduce or replace plastic bags e.g. Zalando SE: Fold products more to reduce the size of polybag used, Use of reusable shipping bags 	 Ralph Lauren Corporation American Eagle Outfitters Zalando SE ALDO Group Nike Zalando SE
Cat.1 - Paper	5. Uphold a commitment to recycling and paper reduction in owned facilities	American Eagle Outfitters
	6. Collaborate with partners and vendors to use clean energy	ALDO Group
	7. Increase material efficiency (Recommended by WRI)	
	8. Deploy low carbon technology (e.g. waterless dyeing)	VF Corporation



Target Computation – Scope 3

Section 1. Input data

Target setting method	Absolute Contration Approach	Please review the latest version of the SBTi Guidance and Criteria
Base year	2018	Dropdown
Target year	2024	Dropdown
Projected output measure		
Base year output		
Percentage growth rate (Linear)		
Scope 3 emissions (total or specific categories)	295	tCO2e

Section 2. Absolute Contraction Approach

	Base year (2018)	Target year (2024)	% Reduction
Company Scope 3 emissions - 2C (tCO2e)	294.6	272.9	7.4%
Company Scope 3 emissions - WB2C (tCO2e)	294.6	250.4	15.0%
Company Scope 3 emissions - 1.5C (tCO2e)	294.6	220.4	25.2%



Scope 3 Screening Preparation

To make a first approximation of full scope 3 footprint

Tab in tool	Topic	Question/Explanation	Requested data	User input
General	Industry	Select the industry from the drop down below that best matches yours. To better understand sector definitions, visit the United Nation's webpage for International Standard Industrial Classification of All Economic Activities, Rev.3.1: http://unstats.un.org/unsd/cr/registry/regcst.asp?Cl=17. Please note that the sector groups used in this tool (as established by WIOD) are not perfectly aligned with these UN sector groups, but the UN's descriptions may help you choose the most appropriate WIOD sector.	sector	Textiles and Textile Products
	Time period	We have to define a time period for your emissions report. Choose a starting month (inclusive of that month) and year and ending month (inclusive of that month) and year to set the time period that will apply to all of the questions that follow. Please note: if your organization has large seasonal fluctuations in activity, adding less than a full year's worth of data will skew results.	reporting period (MM/YYYY to MM /YYYY)	07/2018 to 06/2019
	Employees	How many employees worked directly for your organization?	# employees	5,001 to 10,000

General Information

- Industry
- Time period
- Number of employees

				quantity	
	Scopes 1 and 2 If you have already calculated Scope 1 and 2 emissions, enter those here along with the unit.		Scope 1 emissions	895,000.00	kgCO2-eq
			Scope 2 emissions	9,273,000.00	kgCO2-eq
	Waste	Amount spent on facility waste management in 2019	waste		USD basic price

	Waste	Amount spent on facility waste management in 2019	waste		USD basic price		
					Leased/Owned	Floor Area	_
		We need to know more about the facilities you occupied from start date to end date. Exclude facilities that you own but are occupied by another organization. Select a facility type from the drop down, differentiate owned or leased space, and then enter the area of that facility type during the specified time.	China - LN	Manufacturing			m ²
			China - XF	Manufacturing			m ²
Facilities			China - GG	Manufacturing			m ²
			China - NH	Manufacturing			m ²
			China - SN	Manufacturing			m ²
			Hong Kong Office	Office			m ²
			Thailand- MK	Manufacturing			m ²
			Thailand - MS	Manufacturing			m ²
			Thailand - MKT	Manufacturing			m ²
			Cambodia - CB	Manufacturing			m ²

Information related to the facilities that the company operates

- Scope 1 & Scope 2 Emissions
- Waste management expenditure
- Area of the facilities (area with human activities)



Scope 3 Screening Preparation

To make a first approximation of full scope 3 footprint

Information related to purchased goods and services

• Amount spent on procuring goods and services (e.g. paper, electronic appliances) & capital goods (e.g. machinery, tools, raw materials including chemical)

		We need to know what you bought from start date to end date to make your product or deliver your	good/service 1	Manufacturing (not elsewhere classified); Recycling)	USD basic price			
	Purchased goods &	service.	good/service 2	Pulp, Paper, Paper, Printing and Publishing		USD basic price			
	services		good/service 3	Textiles and Textile Products		USD basic price			
Purchased goods and	services	Select a product or service type from the drop down and enter the amount of money (in basic price) that	good/service 4			USD basic price			
services		you spent on it during the specified time. Make sure to include services like legal and accounting.	good/service 5			USD basic price			
			capital 1	Textiles and Textile Products		USD basic price		Alaya Consulting:	
	Capital goods	Note: please do not include transport-related fuels and building utilities (e.g., automobile fuel).	capital 2	Machinery (not elsewhere classified)		USD basic price		Please estimate the logistic	4
		Disclaimer: there is a potential for double-counting if the user does not exclude facility fuel, waste, and	capital 3	Other		USD basic price		cost or attain information from	m
	Alaya Consulting:					_		the suppliers	
	including raw material and machinery			Upstream		Downstre	am		1
'	,			Raw material to factory	Factory to port for export	Factory to airport for export		Transport to designated market by ocean frieght	
			China - LN						USD basic prid
			China - XF						USD basic prid
			China - GG						USD basic pri
		We need to know how much you spent from start date to end date on third-party distribution (e.g.,	China - NH						USD basic pri
Logistics	Third-party distribution	warehousing, upstream transportation and distribution, or downstream transportation and distribution) Enter the amount of money (in basic prices) that you spent on each during the specified time.	China - SN						USD basic prid
	distribution	Enter the amount of money (in basic prices) that you spent on each during the specified time.	Thailand- MK						USD basic pric
			Thailand - MS						USD basic pric
			Thailand - MKT						USD basic pric
			Cambodia - CB						USD basic pric
			K	* Transported by vehicles owned and operated b	y a third party and not paid	for by Top Form			

Information related to logistics

 Amount spent on third-party distribution (e.g. warehousing, upstream transportation and distribution, downstream transportation and distribution)

Please collect as much data as possible

- → Facilitate the communication with SBTi (SBTi may follow up on the scope 3 screening result with us during the target validation stage)
- → Estimation is acceptable with comprehensive explanation backing up



Scope 3 Screening Preparation

To make a first approximation of full scope 3 footprint

Travel				142 094 90	1		the percentage of sed in the product					
Iravei	Business travel	If you've already calculated business travel emissions, enter them here.	emissions	143,904.00	kgCO2-eq	esci material d	ace in the process					
					Proportion of pa	ackaging material (%)	Proportion of pro	duct material (%) -	Annual	shipment		
				Types of materials used in manufactured produ	Paper	Plastic	Cotton	Plastic	Net Weight (kg)	Gross Weight (kg)	Non-hazardous waste sol to third parties (kg)	
			China - LN									
			China - XF									
		We need to know how your products are sold. First, you must group all your products into material	China - GG China - NH									
Customer	groups (e.g., plastics, metals, etc.) and select the one that most closely matches your products	China - NH China - SN			+		 					
Customer		from the drop down. Report the total weight or volume of materials used to produce and package	Thailand- MK									
		your products and services sold from start date to end date.	Thailand - MS									
			Thailand - MKT									
			Cambodia - CB									
		Do you have investments in joint ventures, subsidiaries, or associate companies that were not captured in my Scope 1 emissions? We need to know what, if any, investments you made from start date to end date. First, choose the type of investment from the drop-down (e.g., joint	joint ventures equity investments			USD basic price USD basic price			_			
Downstream leased	Investments	ventures, equity investments, assoicated companies, subsidiers, debt investment) and then select	associated companies									
sset and investment		the industry sector that most closely matches the sector in which you made your investment.	<u> </u>			USD basic price						
		Then, enter the amount of the investment. Do not include any investments or joint ventures that	subsidizers			USD basic price						
		are included in your scope 1 & 2 emissions.	debt investment			USD basic price						
											ptable with tion backin	

Information related to business travel and customer

- GHG emissions generated from business travel
- Weight or volume of materials used
- Investment, if any



4. Calculate the SBT

Screenshot of tool -Data input section Section 1. Input data



Section 3. Absolute Contraction Approach

Well below 2 degree scenario (WB2C)

Review all target modelling data

Screenshot of tool -Output/results section

	Base year (2019)	Target year (2024)	% Reduction
Scope 1 emissions (tCO2e)	5,000	4,375	12.5%
Scope 2 emissions (tCO2e)	10,000	8,750	12.5%
Scope 1+2 emissions (tCO2e)	15,000	13,125	12.5%

1.5 degree scenario (1.5C)

Review all target modelling data

	Base year (2019)	l arget year (2024)	% Reduction
Scope 1 emissions (tCO2e)	5,000	3,950	21.0%
Scope 2 emissions (tCO2e)	10,000	7,900	21.0%
Scope 1+2 emissions (tCO2e)	15,000	11,850	21.0%



5) Submit target submission form

Target submission

Validation contracting stage (signing of terms & conditions)

SBTi delivers a decision on the targets

Around 1 week

SBTi conducts an initial screening for completeness and to ensure basic criteria are met

30 business days - Target validation by SBTi

SBTi makes a decision on the targets within 30 days if companies are able to respond to any queries within 2 business days

Approved targets are published on SBTi, We Mean Business and CDP websites

The targets must be made public by the company within 6 months of approval, to inform stakeholders



Target validity, recalculation and disclosure











Timing

The company must set

committing to SBTi

target(s) within 2 years of

,

If not, SBTi can remove the company from its website and any external publications, with no penalties to the company

Review

Targets must be reviewed, and if necessary, recalculated and revalidated, at least every 5 years

Announcing target on SBTi

In the coming year, the SBTi will issue more specific guidance on what companies are required to report annually on a public basis to facilitate this process in the future

Tracking progress

SBTi is currently undergoing a process to track company progress against targets.

Disclosure

Companies should report their company-wide GHG emissions and progress against targets through:

- Annual reports
- Sustainability reports,
- Company's website
- Disclosure through CDP's annual questionnaire

Triggered recalculation

- Scope 3 emissions become 40% or more of overall scope 1, 2, and 3 emissions
- Exclusions in the inventory or target boundary change
- Significant changes in company structure and activities (e.g. acquisitions, divestitures, mergers, insourcing or outsourcing, shifts in product or service offerings)
- Significant changes in data used to calculate the targets such as growth projections
- Other changes to projections/assumptions used with SBT setting methods



Science-based Target Setting

Q: Is it necessary to resubmit the target if we overstate our target?

A: Companies should check their targets annually and at minimum every five years. Best practice: A company should recalculate its SBT to reflect significant changes that might compromise the target's relevance.



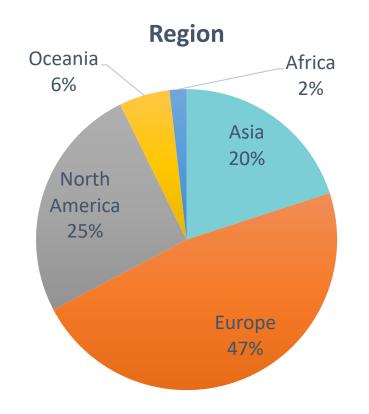


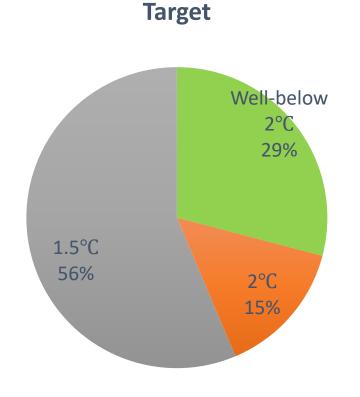


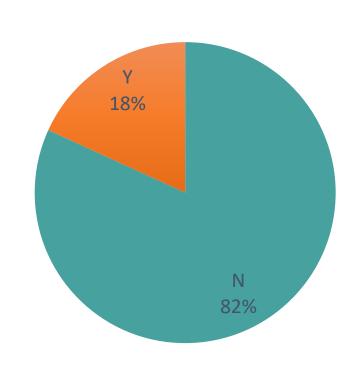
6 5	Companies have approved science-based targets
11	Companies in Asia have approved science-based targets
1	Company in Hong Kong has approved science-based targets

Tokyu Fudosan Holdings Corporation	VIEW TARGET	Targets Set	•	1.5°C	Japan	Asia	Real Estate
MITSUI FUDOSAN CO., LTD.	VIEW TARGET	Targets Set		Well-below 2°C	Japan	Asia	Real Estate
Nomura Real Estate Holdings, Inc.	VIEW TARGET	Targets Set		Well-below 2°C	Japan	Asia	Real Estate
CapitaLand	VIEW TARGET	Targets Set		Well-below 2°C	Singapore	Asia	Real Estate
Mahindra Lifespaces Developers Limited	VIEW TARGET	Targets Set		1.5°C	India	Asia	Real Estate
Mahindra World City (Jaipur) Ltd.	VIEW TARGET	Targets Set		1.5°C	India	Asia	Real Estate
Mahindra World City Developers Ltd	VIEW TARGET	Targets Set		1.5℃	India	Asia	Real Estate
Swire Properties Limited	VIEW TARGET	Targets Set	•	2°C	Hong Kong	Asia	Real Estate







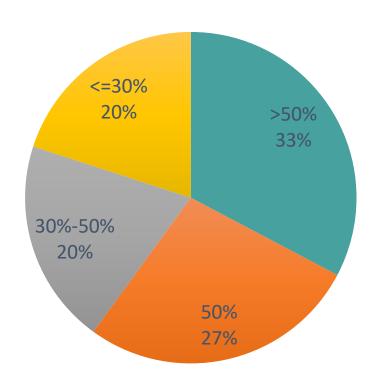


SMEs

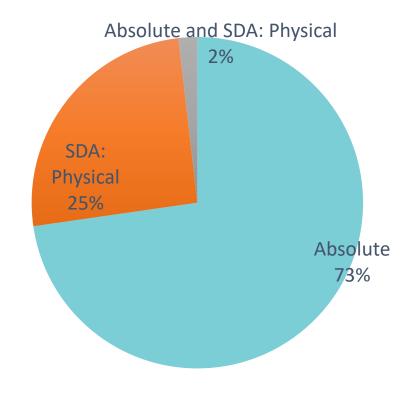
- **55** Companies in total
- 10 SMEs companies
- All in sector of **Real Estate**



Target Value for Scope 1 and 2

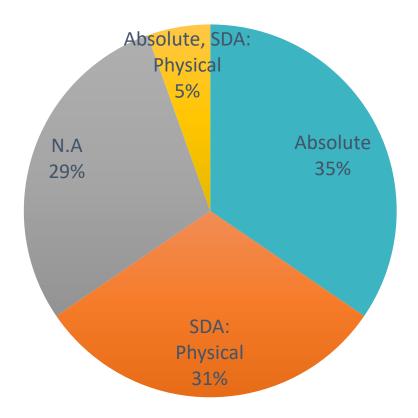


Target Method for Scope 1 and 2

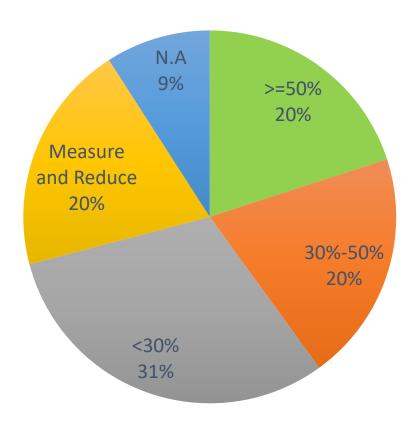




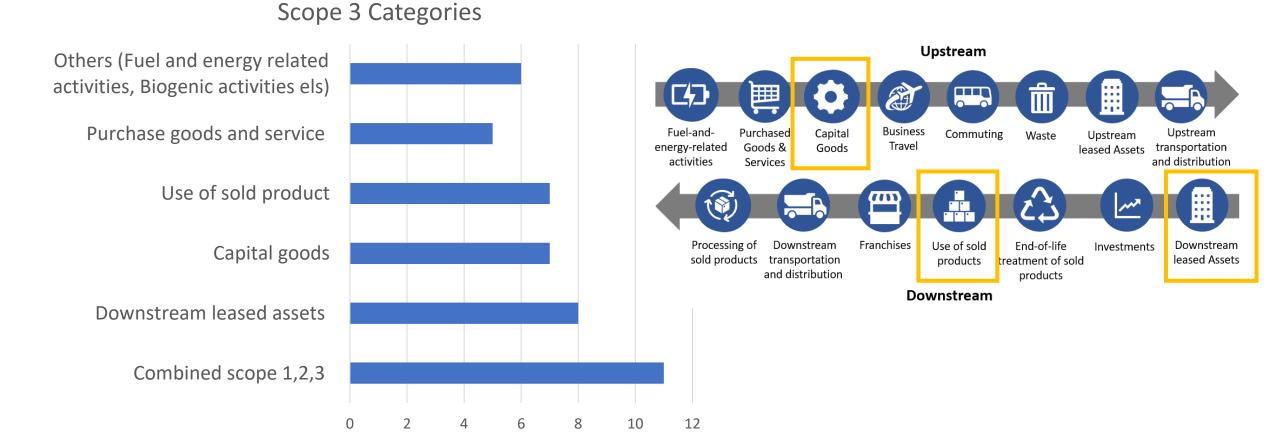
Target Method for Scope 3



Target Value for Scope 3









Top 3 Categories of Scope 3 Emissions (Real Estate)

According to:

- Analysis of companies with approved targets
- Guidelines on scope 3
 accounting, e.g. UKGBC Guide to
 Scope 3 Reporting in
 Commercial Real Estate



Category 11:

Use of Sold Products

e.g. Sold buildings



Category 2:

Capital Goods

e.g. Construction materials



Category 13:

Downstream Leased Assets

e.g. Tenant operations

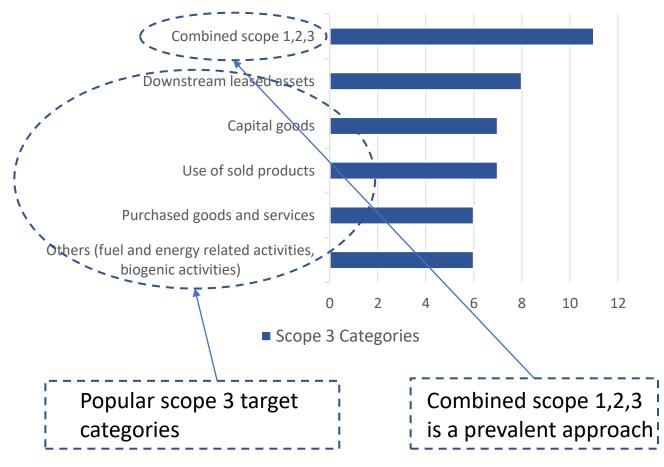


Approaches of Scope 3 Targets

3 Approaches

- 1. Combined target (scope 1,2,3)
- Targets set against specific categories
- Separate targets for scope 1&2 and scope 3

Distribution of Scope 3 Targets





Pros and Cons of Scope 3 Target Approaches

Target Approach	Pros	Cons
Combined target (scope 1,2,3)	 Suitable when scope 3 reduction potential is low Comprehensive emission management Simple to communicate Base year recalculation not required for shifting activities between scopes 	 Low transparency Require same base year for all scopes
Target set against specific categories	 Allow customization of target for different categories High transparency Provide additional metrics to track progress 	 Complicated to communicate May require base year recalculation when shifting activities between scopes May fail to reduce excluded categories Less flexibility in scope 3 reduction
Separate targets for scope 1&2 and scope 3)	 More comprehensive emission management and flexibility Relatively simple to communicate 	 Less transparent May require base year recalculation when shifting activities between scopes



Owned and operated-facilities

- Scope 1 and 2 emissions
- Expenditure on facility fuel and electricity use
- Type of facilities and area
- Spending on facility waste management (in USD)

Business travel

- Days stayed or distance travelled
- Spending of the trip

Data required for screening

Purchased goods and services

- Purchase type and amount of spending from:
 - Capital goods
 - Standard goods
 - Services

Customer-related

- Type of sold products
- Total mass of products

Transportation and distribution

- Third-party transport type and spending
- Third-party distribution type and spending

Downstream leased asset and investment

 Whether there are downstream leased assets and investment



Data Collection (Top 3 Categories)

Cat 11: Use of Sold Products

Cat 2: Capital Goods

Cat 13: Downstream Leased Assets

Step 1: Identify basic information

- Asset type
- Expected lifetime of assets

Capital good type

Asset type

Step 2: Collect data

- Sales records
- Building floor plan
- Asset owner's carbon audit result/sustainability report
- Electric bills/meter readings

- Breakdown of spend from procurement
- team, broken down by procurement category and/or supplier

- Rental records
- Building floor plan
- Lessee's carbon audit result/sustainability report
- Electric bills/meter readings

Step 3: Choose a suitable calculation method

Sold asset's scope 1, 2 emission/ expected energy use and floor area

Industry average data (low accuracy)

Spend-based method:

Amount of money spent by category

Industry average data (low accuracy)

specific Method: Lessee's scope 1, 2 emission/ene rgy use and floor area

Lessee-

Averagedata Method: Lessee's floor area

Industry average data (low accuracy)



Case Study - Landsec

A real estate developer in the United Kingdom committed to SBTi 1.5°C target 1.5°C target set combining scope 1, 2 and 3

Landsec's SBT (approved in 2016)

Emission Approach

- Combining Scope 1, 2 and 3
- Method = Absolute

• Reduce carbon emissions (tCO2e) by 70% by 2030 compared with a 2013/14

baseline

		20	20/21
GHG scope	Category	Emissions (t CO₂e)	% of total value chain
Scope 1	Scope 1	7,554	3.3%
Scope 2	Scope 2	18,434	8.0%
Scope 3	Scope 3	205,235	88.8%
i	Scope 3 as	the major	

Scope 3 as the major source of emission

Major sources of scope 3

Sc	ope 3	205,235	88.8%
1.	Purchased goods and services (PG&S)	34,004	14.7%
2.	Capital goods	84,261	36.4%
3.	Fuel- and energy-related activities	5,052	2.2%
4.	pstream transportation and distribution	Grouped under PG&S	0.0%
5/	Waste generated in operations	284	0.1%
6.	Business travel	33	0.0%
7.	Employee commuting	168	0.1%
8.	Upstream leased assets	n/a	0.0%
9.	Downstream transportation and distribution	n/a	0.0%
10). Processing of sold products	n/a	0.0%
11	Use of sold products	n/a	0.0%
12	2. End-of-life treatment of sold products	n/a	0.0%
13	. Downstream leased assets	81,433	35.2%
14	. Franchises	n/a	0.0%
15	5. Investments	n/a	0%

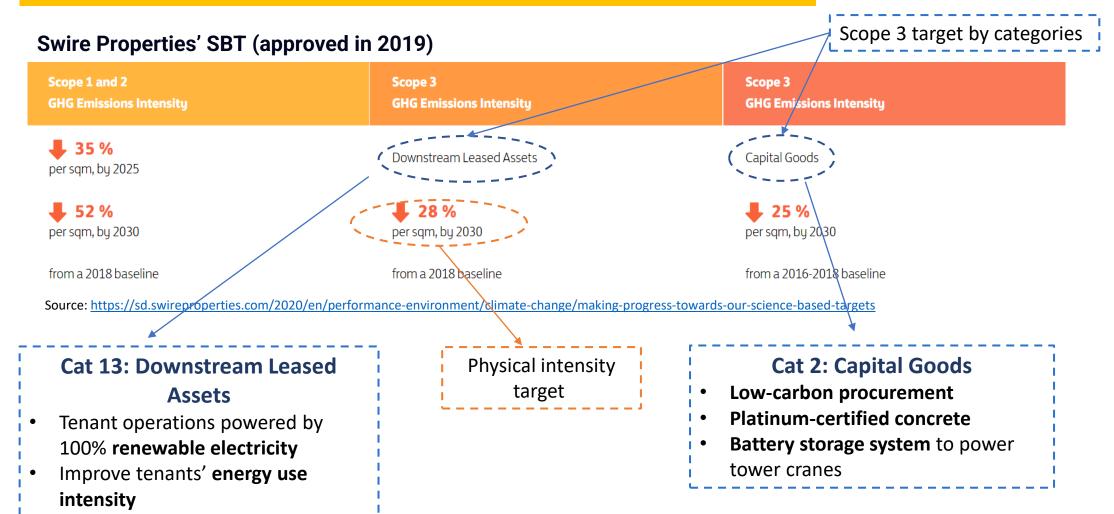
Landsec



Case Study - Swire Properties

First real estate developer in Hong Kong and mainland committed to SBTi First real estate developer in Hong Kong committed to 1.5°C target



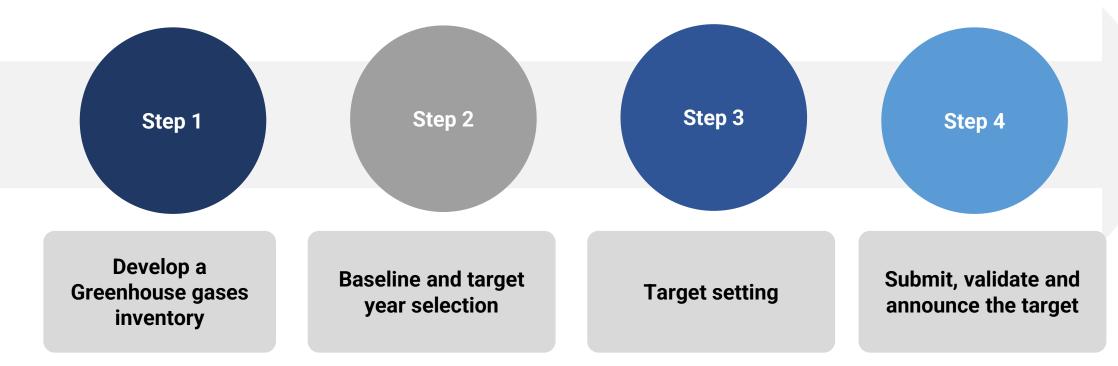








Target Setting Process



- > Boundary
 - Company-wide Scope 1 and 2 emissions (as well as Scope 3 if it constitutes more than 40% of total)
- Timeframe
 From date of announcement, 5-10 years
- Reporting Publicly disclose its company-wide GHG emissions inventory and progress against their targets on an annual basis
- What are the associated costs?
 From 2019, target validation services will be charged (USD 5000 for two assessments)



SBT Step-by-Step

Step 1Develop GHG Inventory

Step 2Target Year Selection

Step 3 Target Setting

Step 4Submit, Validate and Announce the Target

Key action taken

Comprehend full picture including Scope 3 screening

Commence computation process

Provide recommendations on Scope 2 accounting approach and target selection method

List on SBTi website

Alaya

- Ascertain the organisation boundary and identify emission activities
- Identify outstanding data and provide data collection guideline
- Screen the scope 3 GHG emissions
- Scope 3 has to be included if exceeding 40% of total GHG emission

> Recommend target year

- Compute the carbon reduction targets
- Select scope 2 accounting approach and target setting method
- Draft a target statement

Submit the targets to SBTi for auditing and approval

Client

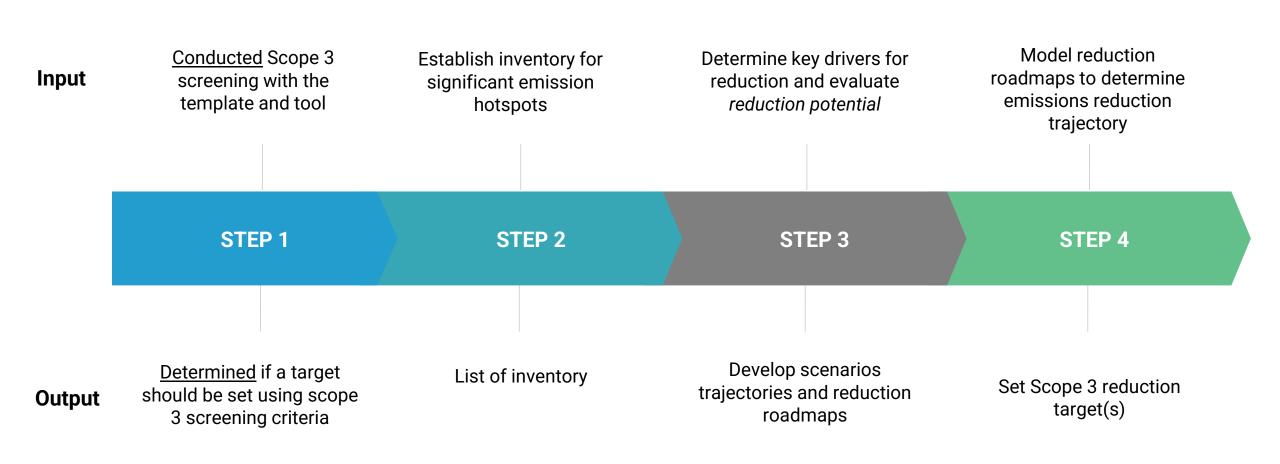
- Provide the GHG emissions data (including sources of emissions)
- Collect data for scope 3 GHG emissions calculation

Provide projections of business expansion in coming years

- Submit the commitment letter to SBTi
- > Review and approve the targets









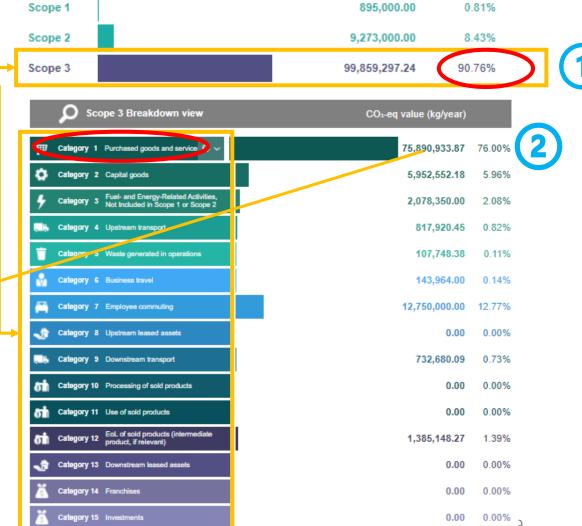
Case Study: Screening Result Initial Analysis

Per SBTi target setting manual:

- Client's scope 3 emissions is over 40% of the total emissions → Scope 3 target must be set
- Companies should calculate emissions from scope 3 source from <u>15 categories</u> at which they have the **potential** to influence GHG reductions
- 3. The **Scope 3 target boundary** should include <u>the majority of value</u> chain emissions:
 - the top three emissions source categories or
 - two-thirds of total scope 3 emissions

Client to set a specific Scope 3 target for category 1

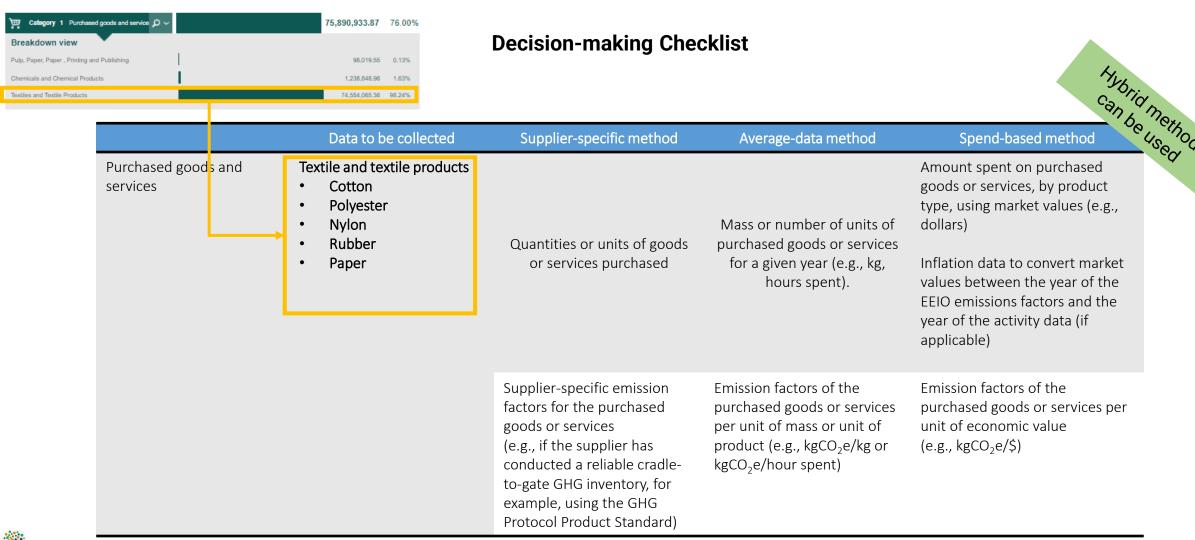




CO2-eq (kg/year)



Establish a scope 3 inventory for purchased goods and services



Hybrid method can be used

Establish a scope 3 inventory for purchased goods and services

Calculating Methods	Supplier-specific method	Average-data method	Spend-based method
Activity data	Quantities or units of goods or services purchased	Mass or number of units of purchased goods or services for a given year (e.g., kg, hours spent).	Amount spent on purchased goods or services, by product type, using market values (e.g., dollars) Inflation data to convert market values between the year of the EEIO emissions factors and the year of the activity data (if applicable)
Parties involved	Company & Suppliers	Company	Company
Emission factor used	Supplier-specific emission factors for the purchased goods or services (e.g., if the supplier has conducted a reliable cradle-to-gate GHG inventory, for example, using the GHG Protocol Product Standard) *third-party assurance on the suppliers' data might be needed to ensure data accuracy	Emission factors of the purchased goods or services per unit of mass or unit of product (e.g., kgCO ₂ e/kg or kgCO ₂ e/hour spent)	Emission factors of the purchased goods or services per unit of economic value (e.g., kgCO ₂ e/\$)
Level of difficulty	* * *	**	*

Our Approach

Set a specific Scope 3 target for Category 1 Purchased Goods & Services

Approach 1 Adopt Average-based method

Prerequisite

 ✓ Access to emission factor retrieved from Higg Index Material Sustainability Index (USD 1000)

Approach 2

Estimate scope 3 emissions by obtaining the Higg index carbon emissions of client's top 5-10 material suppliers

✓ Suppliers can provide the carbon emissions for producing production orders from the Higg system

Approach 3

Adopt Spent-based method

 Access to EEIO (Environmentally-Extended Input-Output)



Establish a scope 3 inventory for purchased goods and services

Scope 3 Inventory 范目	周三清!	———— 单										
	,.											
SCOPE 3 (CATEGORY 1) INVENTORY - FY 2020 范围三(類別1)清单 - 2020財務年度												
		LN	GG	NH	SN	нк		MS	MKT	TFSEM	СВ	Total
						e and Textile product		701				
Option 1: By weight					(Please select	either option 1 or 2 🏿	[选择其中一个选项 19	¥2)				
选项1:按重量计算												
Cotton 棉花											_	
Organic 有机棉	kg											0.00
Recycled 环保棉	kg											0.00
Better Cotton Initiative (BCI) 良好棉花	kg											0.00
Total 总计	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Polyester 聚酯纤维												
General 一般聚酯纤维	kg											0.00
Recycled 环保聚酯纤维	kg											0.00
Total 总计	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nylon 尼龙					•	•		•	•	•		
General 一般尼龙	kg											0.00
Recycled 环保尼龙	kg											0.00
Total 总计	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber 橡胶	_	•				1	•				•	•
General 一般橡胶	kg											0.00
Recycled 环保橡胶	kg											0.00
Total 总计	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Option 2: By procurement proportion 选项2: 按采购比例计算 Alaya Consulting: If the weight of fabric used is not available, please provide the amount (in USD) that the company spent on or weight (in kg)of fabric												
Total amount or weight spent on purchasing textile and textile		and textile products in FY2020, and estimate the procurement proportion of the materials										
products 用于胸买布料和纺织品的总 金额或重量	USD/ kg	如果不能提供各種布料的重量,请提供公司于2020财務年度用于购买布										
Cotton棉花	%	料和纺织品的总金额	順(单位:美金)或重量(年	自位:公斤) ,以及估算采	3物比例	1						
Polyester 聚酯纤维	96											
Nylon 尼龙	96											
Rubber 橡胶	96											
Others 其他 (Please specify 请注明)	96											
Total总计	96	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	



Case Study

Use of recycled material

Recycled materials

We are aiming to switch 100% of the polyester used in our products to recycled polyester by 2030. This is one of our key strategies to reduce greenhouse gases emissions in our value chain and achieve our science-based target and help us toward a more circular approach.

In 2019, we developed a roadmap to 100% recycled polyester by 2030 for each product category. Based on this roadmap, more items are manufactured using recycled polyester from 2020.

We also use recycled materials for natural materials such as recycled leather.

ASICS launched the "Edo Era Tribute Pack," on April 24, 2020. This collection of shoes was designed and developed in 2019 inspired by and making tribute to the Edo period of Japan. Tokyo was called Edo until 1868, and was one of the first cities in the world to recycle and follow sustainable practices. The "Edo Era Tribute Pack," featuring high-tech sustainable shoes, made from recycled PET bottles, is inspired by Tokyo's heritage. Recycled polyester is used in shoe upper material and approximately 300,000 PET bottles are recycled to manufacture the whole collection.

ASICS- Scope 3 Emission Reduction Initiatives

Switch to the energyefficient forms of transport

Reducing greenhouse gas emissions in transportation

Transporting products from factories to market is the second biggest contributor to our overall carbon footprint, accounting for about 7% of our total greenhouse gas emissions.

Since 2013, we've been working to reduce the carbon footprint of our distribution network through consolidation and by improving its efficiency. This includes switching to more energy-efficient forms of transport such as ships and trains.

In Japan, we have improved the efficiency of our logistics by developing a system that makes empty imported containers available to other companies for use as export containers at a number of

distribution terminals. We also ship from our own factory in Japan directly to overseas subsidiaries, rather than via distribution centers in each region.

Globally, we ask our partner shipping companies to use ships assessed with the World Ports Sustainability Program's Environmental Ship Index (ESI). The ESI evaluates the amount of nitrogen

oxide (NOx) and sulfur oxide (SOx) emitted by a ship, and includes a reporting scheme on the greenhouse gas emissions of the ship. We will continue to work with our logistics providers to make our distribution network more efficient globally.

More efficient use of containers

→ Reduce the no. of trips

We are also switching to more sustainable packaging, as well as improving how we use containers in our logistics to reduce the total number of trips needed to deliver goods in the value chain.

CO₂ transportation (tons)



Road and rail freight include data of 'port to DC' in the US, Europe and Japan, and 'DC to customers' in Japan. Sea freight is data of the footwear business. Air freight is data of the footwear business globally and the apparel business in Japan. The emissions factors provided by the GHG Protocol are used.

Ship products to subsidiaries instead of distribution centres

Use ships assessed with the World Ports Sustainability Program's Environmental Ship Index (ESI) Switch to more sustainable packaging

→ Reduce waste production

Sustainable packaging

In July, we launched a new sustainable packaging policy to reduce waste generated further down our supply chain, at the retail and consumer level. The main focus of the policy is on eliminating single-use plastic throughout the supply chain,

and where plastic is necessary, switching to eco-friendly substitutes. Based on the policy, we decided to change the main material we use for our shopping bags in all directly-managed stores from plastic to paper by the end of 2020.

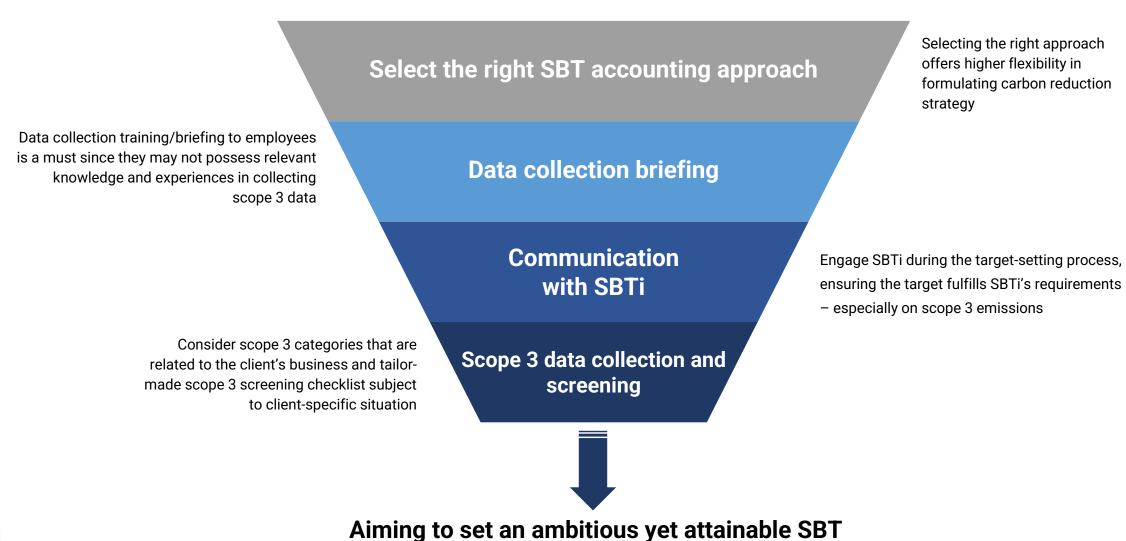
We are also planning to introduce a new, more sustainable shoebox. The box uses water-based rather than oil-based ink, and reduces the amount of ink used by around 50% compared with our previous boxes. The box itself also contributes to having less environmental negative impact by using around 10% less cardboard, so it is less

carbon-intensive to produce, saving around 1,200 tons in CO₂ emissions per year in total.



ASICS paper shopping bags.

Lessons learned from our experiences

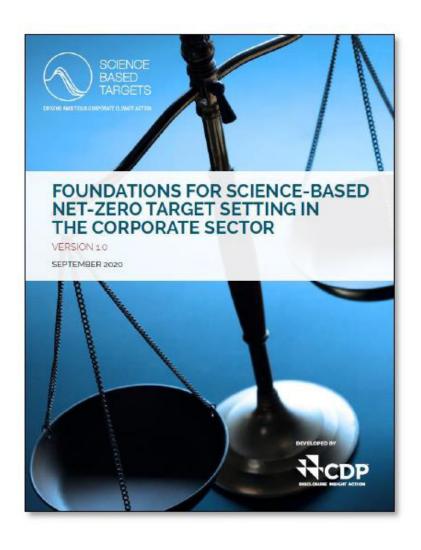








SBTi proposed definition of net-zero emissions



- 'To reach a state of net-zero emissions for companies implies two conditions:
 - To achieve a scale of value-chain emission reductions consistent with the depth of abatement achieved in pathways that limit warming to 1.5°C with no or limited overshoot and;
 - To neutralise the impact of any source of residual emissions that remains unfeasible to be eliminated by permanently removing an equivalent amount of atmospheric carbon dioxide.'



SBTi proposed definition of net-zero emissions

Net-Zero Targets	Science-Based Targets
Based on IPCC's scientific knowledge	Based on IPCC's scientific knowledge
Imbedded in the Paris Agreement, aligned with a below 1.5 or 2 degrees target	Imbedded in the Paris Agreement, aligned with a below 1.5 or 2 degrees target
SBTs or reduction strategy + Carbon offsets/removal	Rigorous process that requires validation by the SBT Initiative
 Less strict than SBTs, does not trigger a validation process as of today 	 Validated through current scientific methods, more strict
Long term target (15 years +)	Short-term target (5-15 years)
Not all NZTs are SBTs	Highly recommended to set for NZTs





Alaya Consulting 本 識 顧 問

Building Trust Through Narrative

