

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

INTRODUCTION TO THE SBTI TOOL

SOUTH AFRICA AND SOUTHEAST ASIA

24 NOVEMBER 2021

Partner organizations











In collaboration with

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WELCOME & HOUSEKEEPING

• This webinar is being recorded.

• We will send all registrants a copy of the presentation and the recording.

• Please ask your questions for the panel section in the Q&A box.





AGENDA



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PRESENTERS FOR TODAY





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ALIGNING AMBITION TO THE PARIS GOALS: UNDERSTANDING THE CONCEPTS





The Foundations of Science-based Target Setting paper explains how the SBTi has leveraged newly available science to align its methods with 1.5°C pathway.

It reflects an in-depth consultation with the **SBTi's Scientific Advisory Group**, composed of leading scientists from international agencies such as the Intergovernmental Panel on Climate Change (IPCC), International Institute for Applied Systems Analysis (IIASA), and International Energy Agency (IEA), as well as leading academic institutions and state climate agencies.

ALIGNING AMBITION TO THE PARIS GOALS: TARGET SETTING ELEMENTS

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DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

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

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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)

STEP 1 - CHOOSING A SCENARIO: UNDERSTANDING THE CONCEPTS





Sources: SBTi analysis based on data from IAMC 1.5°C Scenario Explorer and Data hosted by IIASA and Global Carbon Project. (2017). Supplemental data of Global Carbon Budget 2017 (Version 1.0)

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		1.5°C	2.0°C	2°C impacts
	Global population exposed to severe heat at least once very 5 years	14%	37%	<u>2.6x</u> worse
	Number of ice- free artic summers	At least 1 every 100 years	At least 1 every 10 years	<u>10x</u> worse
ALLE A	Further decline in coral reefs	70-90%	99%	Up to <u>29%</u> worse

1.5M tonnes

TECHNICAL CONCEPTS

Decline in marine

fisheries

STEP 1 - CHOOSING A SCENARIO: WHAT IMPACTS DO DIFFERENT SCENARIOS **RESULT IN?**

3M tonnes

2x worse

Despite understanding the severity of climate change impacts, current policies put us on track for between 2.7-3.1°C.

COP26 pledges put us at 2.4°C





- Global GHG emissions scenarios drawn from the Integrated Assessment Modeling Consortium (IAMC) are used to construct a scenario envelope for 1.5°C and well-below 2°C (WB2D) Compliance.
- Four-step selection process to ensure that the combined set of scenarios is aligned with the principles of plausibility, responsibility, objectivity, and consistency.
- Linear reduction rate calculated 2020-2035.

TECHNICAL CONCEPTS STEP 2 | ALLOCATING THE CARBON BUDGET - AVAILABLE METHODS



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TARGET SETTING APPROACH	SCOPE 1 AND 2	SCOPE 3
Absolute reduction	Х	Х
Physical intensity reduction	Х	Х
Economic intensity reduction		Х
Supplier engagement		Х



* International Energy Agency ** Developed by the SBTi



TECHNICAL CONCEPTS

ALLOCATING THE CARBON BUDGET - METHODS FOR SCOPE 1 AND 2

ALLOCATING THE CARBON BUDGET - METHODS FOR SCOPE 1 AND 2



Absolute-based approach

- Sector-agnostic
- Scope 1 & 2 emissions: contraction of absolute emissions in line with decarbonisation rate of climate scenarios
- Can be used by companies from all sectors, <u>except</u> Power Generation and Oil & Gas

Sector-based approach

- Sector-specific
- Sectoral Decarbonization Approach (SDA) provides sectoral decarbonisation pathways that enable emission intensity targets
- SDA currently covers large parts of heavy industry, power, real estate, ICT sector, and some transport sectors, with some of these still in development/refinement
- The SBTi is also developing more bespoke sector approaches for key sectors, specifically, Maritime Shipping, Forestry, Land and Agriculture



SCIENCE

BASED TARGETS

15

YEARS

37.5%

63%

TECHNICAL CONCEPTS STEP 2 | ALLOCATING THE CARBON BUDGET: THE SDA



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INPUT FROM SCENARIOS

- Emissions projections for sector
- Activity projections for sector
- Energy intensity for sector
- Carbon intensity for energy supply



SDA TOOL

INPUT FROM COMPANY

Emissions in the base year

- Production volume in the base year
- Growth projection for the target year



- Emissions in the target year
- Emissions intensity in the target year
- Reduction between base year and target year

TECHNICAL CONCEPTS STEP 2 | ALLOCATING THE CARBON BUDGET THE SDA

How is the SDA built?

Sector activity levels: Activity projections for each available sector in the ETP. Specific activity metrics are defined for each sector.

Sector CO2 emissions: A direct CO2 emissions trajectory for a given sector that is aligned with a temperature goal (ie. well-below 2°C or 1.5°C).

Sector intensity pathways: The result of dividing total direct emissions of the sector in any given year by the total activity of the sector in the same year.



Sector-based approach



TECHNICAL CONCEPTS STEP 2 | ALLOCATING THE CARBON BUDGET THE SDA

- "Intensity convergence" is based on the assumption that the carbon intensity of each company in a homogeneous sector will converge with the sector carbon intensity in 2050.
- Within each sector, companies can derive their science-based emission reduction targets based on their relative contribution to the total sector activity and their initial carbon intensity relative to the sector's intensity.
- As it currently stands, the method does not cover certain activity sectors (Agriculture, forestry, and other land use; Oil and gas production; Residential Buildings, and others).





STEP 2 | ALLOCATING THE CARBON BUDGET: **MINIMUM AMBITION**



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TARGET SETTING	SCOPE 1	SCOPE 3	
APPROACH	1.5°C	Well-below 2°C	
Absolute reduction	4.2% linear annual reduction rate	2.5% linear annual reduction rate	2.5% linear annual reduction rate
Physical intensity reduction	= 4.2% linear annual reduction rate physical indicator	According to SDA Tool using IEA ETP B2DS scenario	Option 1: 2% and no increase in absolute emissions Option 2: Modelled using SDA tool
Economic intensity reduction	-		7% year-on-year annual reduction
Supplier engagement	-		Coverage needed to ensure that boundary criteria is met within 5 years
1	Covering 95% of emissions		Covering 2/3 of emissions

STEP 2: ALLOCATING THE CARBON BUDGET: OVERVIEW OF METHODS FOR VARIOUS SECTORS



SBTi Methods & Sectors	POWER	 SDA only. Visit the SBTi Power webpage to access the guidance a 	and SBTi tool.
	LAND TRANSPORTATION	 SDA or Absolute Contraction. Auto manufacturers MUST set well-below 2°C aligned scope 3 targe products. Visit the SBTi Transport webpage to access the guidance and tool. 	ets on use of sold
	FINANCIAL INSTITUTIONS	 Three methods for financed emissions (scope 3): SDA, SBT Temperature Rating Visit the SBTi Financial Institutions webpage to access the gamma statement of the statemen	⁻ Portfolio Coverage, guidance and tools.
	ALUMINUM, CEMENT, COMMERCIAL BUILDINGS, IRON AND STEEL, PULP AND PAPER	 SDA or Absolute Contraction. Download the SBTi tool to model targets for these sector 	ors.
	APPAREL & FOOTWEAR, ICT	 Absolute Contraction only. Visit the Apparel & Footwear webpage and the ICT web relevant guidance. 	page to access
	ALL OTHER SECTORS	 Absolute contraction only. Download the SBTi Tool to model targets using the abs approach. 	olute contraction

Access the SBTi Sector Guidance webpage to find detailed info about each sector: https://sciencebasedtargets.org/sectors

TECHNICAL CONCEPTS STEP 2 | ALLOCATING THE CARBON BUDGET: SECTOR DEVELOPMENT



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Sector	Project Status	Expected Delivery	Deliverable
Forest, Land and Agriculture	Method development	Q1 2022	Full methodology
Maritime Shipping	Method development	Q2 2022?	Full methodology



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TYPES OF TOOLS AVAILABLE

AVAILABLE TOOLS



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Type of tool	Purpose	Where
SBTi Target Setting Tool	Summary of accepted SBTi target setting methods including SDA and Scope 3 methods Latest version: V1.2.1	Resources section on SBTi website
SBTi Transportation Tool	Transportation related organizations such as OEMs	Resource section on SBTi website and Transportation Sector page
Net Zero Tool	To demonstrate how companies can set Net Zero targets (long term), to be updated for including near term targets	Net Zero and Resources pages of the SBTi website
GHG Protocol Scope 3 Evaluator Tool	To perform Scope 3 screening if a company doesn't have specific data	Resources section on SBTi website and GHGP website
SBTi Financial Institutions Tool	For Temperature Scoring and Portfolio Coverage	Resources section and Financial Institutions guidance page



DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

SBTi Tool Live Demonstration





Q&A



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THANK YOU FOR PARTICIPATING!

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