Temperature rating of portfolios, indexes, & companies

Consultation Webinar

Online webinar: April 30, 2020 Nate Aden, Nico Fettes, Chris Weber, Eoin White

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Temperature Scoring I Welcome

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Temperature Scoring I Today's Speakers



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Temperature Scoring I Agenda

AGENDA ITEM	PRESENTED / MODERATED BY	TIME ALLOCATION		
SBTi framework for financial institutions	Nate Aden	15 minutes		
SBTi temperature scoring methodology	Eoin White/Chris Weber/Nico Fettes	30 minutes		
Method refinement and stakeholder consultation process	Eoin White	15 minutes		
Next steps and opportunities for participation	Nate Aden	10 minutes		
Questions and discussion		20 minutes		

Science-based targets for financial institutions

In 2018, the SBTi launched a project to help financial institutions align their lending and investment portfolios with the ambition of the Paris Agreement.

The project audience includes universal banks, pension funds, insurance companies and public financial institutions.





SBTi-Finance Framework I Project partners and roles

Managing Partner



WORLD Resources Institute





Technical Partner

NAVIGANT

SBTi-Finance Framework I Tipping point theory of change



By requiring economic actors to set targets not only for their direct emissions, but for all emissions across their value chain over which they have influence (i.e. scope 2 and 3), the SBTi seeks to align all relevant economic actors across a value chain behind a common goal and therefore create incentives and eliminate barriers for broader Paris-aligned systemic transformation.

SBTi-Finance Framework I Scope

Included	Outside of Current Scope
Scope 1 and 2 science-based target methods, criteria, and guidance	Impact assessment (pending data and evidence availability)
Scope 3 target methods, criteria, and guidance ('how much')	Additionality (quantification or attribution without sufficient evidence)
Disclosure of implementation strategy	Ex-post tracking
Flexibility on actions to achieve targets	Implementation requirements ('how')
Engagement strategies (via Portfolio Coverage & Temperature Scoring)	Leakage remediation
	Evaluation of strategies' cost effectiveness

SBTi-Finance Framework I Framework components



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SBTi-Finance Framework I Project milestones



Apr-Oct 2019:

Gather and share feedback on draft **methods** through road-testing process

Dec – Apr 2020:

Develop draft criteria and conduct consultations at EAG/SAG workshops Apr - Aug 2020:

Finalize guidance, criteria, methods, and target-setting tool



Sept 2020: Launch V1 of framework

SBTi-Finance Framework I Mapping methods to asset classes

Asset Class	Method	Description
Real Estate	Sector Decarbonization Approach (SDA)	Emissions-based physical intensity targets are set for non-residential buildings' intensity and total GHG emissions.
Mortgages	SDA	Emissions-based physical intensity targets are set for residential buildings' intensity and total GHG emissions.
Electricity Generation Project Finance	SDA	Emissions-based physical intensity targets are set for electricity generation projects' intensity and total GHG emissions.
	SDA	Emissions-based physical intensity targets are set at sector level within the portfolio for sector where sectoral decarbonization approaches are available.
Corporate	РАСТА	Sectors are assessed at individual business activity level for select activities.
Instruments (equity, bonds, loans)	SBT Portfolio Coverage	Financial institutions engage a portion of their investees (in monetary or GHG emissions terms) to have their own science-based targets such that they will reach 100% coverage by 2050.
	Temperature Rating	Financial institutions apply temperature rating method to come up with base- and target-year temperatures (e.g., 2.6°C in 2019 and 1.7°C in 2025).



Background to Temperature Scoring

Temperature Scoring Methodology: 2. Applications 1. Protocols to translate public targets to scores Solutions built on top of the open source framework SCIENCE DISCLOSURE INSIGHT ACTION **WWF** BASED TARGETS DISCLOSUDE INSIGHT ACT DRIVING AMBITIOUS CORPORATE CLIMATE ACTION Targets Companies Portfolios SBTi Data and solutions Scientific Target Protocol Portfolio Protocol **Financial Institutions** Methodology Insights for investors and Converts target Aggregates Converts targets Methodology corporates scores to company company scores to into temperature portfolio scores scores ratings Open source, public methodology Data agnostic **Corporate and investor**

applications

The launch of the IPCC 1.5C report led the SBTi to classify all targets against long term temperature goals to determine relative ambition of approved targets



The SBTi's Foundations of Science Based Target Setting. This document describes the SBTi's framework for developing target-setting methods that are in line with science and for evaluating emissions scenarios associated with these methods.

The SBTi have determined the GHG emission pathways that are aligned to three specific temperature pathways: 2C, well-below 2C, 1.5C



The SBTi's <u>target validation protocol</u> defines the ambition ranges for absolute and intensity targets based on the absolute emissions contraction and sectors decarbonisation approaches.



Long-term temperature goal	Ambition range (global emissions pathway)	Ambition range (sector emissions pathway)
2°C Approx. 50% chance of limiting warming in 2100 to below 2°C	1.23% ≤ X < 2.5% annual linear reduction rate over target period	SDA 2DS pathway ≤ X < SDA B2DS pathway
Well below 2°C Approx. 66% chance of limiting peak warming between present and 2100 to below 2°C	2.5% ≤ X < 4.2 % annual linear reduction rate over target period	X ≥ SDA B2DS pathway
1.5°C Approx. 50% chance of limiting peak warming between present and 2100 to below 1.5°C	X ≥ 4.2 % annual linear reduction rate over target period	N/A

- The SBTi have determined the GHG pathways that are aligned to three specific temperature pathways: 2°C, well-below 2°C, 1.5°C;
- Temperature scoring will assess and rate corporate ambition against a wider range of temperature outcomes (1.5–4°C) . e.g. Company A's GHG emission reduction target of X% reduction in absolute emissions by 2025 implies their ambition is aligned to a Y°C world.





- Assessing the ambition of corporate targets is complex: expressed with different units, over multiple timeframes covering various types of scopes
 - Scope Coverage: scope 1, scope 2, scope 1+2, scope 3, scope 1+2+3
 - Absolute/Intensity targets: many types of activity indicators e.g. per MWh, per revenue, per tonne of product
 - Timeframes: targets can be set anywhere from 2020-2050
- **Translate:** the goal of a temperature rating is to translate targets into a single common and intuitive metric that is linked to the long-term temperature outcomes associated with the ambition of the target.





The temperature scoring standard enables all actors to use common, intuitive, and consistent metric to rate ambition at various levels.

- 1. Investor: Investors use temperature scores to assess status and ambition of companies and build Paris-aligned portfolios
- Corporate: Corporates use temperature scores to classify ambition and highlight leadership. Corporates are scored on both their operational scope 1+2 ambition and value chain, scope 3 ambition
- 3. Value Chain: Corporates can assess the status of their value chain by rating the ambition of their key suppliers





Methodological Overview

Methodology I Three Step Process

Temperature scoring process

- 1. The protocol for interpreting corporate targets is applied to the cleaned target data.
- 2. Target scores are aggregated to produce company level scores for scopes and timeframes
- Company scores are weighted and aggregated to produce portfolio level scores



Methodology I Step 1 Target Protocol



("default temperature score")

Methodology I Step 1 Target Protocol

Method tests a hypothesis of a linear relationship between the change (slope) in common scenario metrics (e.g., absolute emissions; emissions/GDP) over specific timeframes relevant to corporate target setting horizons (e.g., 2020-2035) and the resulting global warming in 2100

-> Builds on previous work by IPCC and SBTi members

Regression models were developed for each unique combination of:

- key scenario variables/benchmarks; 6
- unique scenario subset (filtering by peak year, max CDR); 56
- key time horizons relevant to corporate targets, (5 to 30 years); 6
- => 56 x 6 x 6 unique regression models



Figure: Range of slopes for common scenario variables/benchmarks. Source: Weber et al. (2018) *Nature Climate Change*.

Methodology I Step 1 Target Protocol

Final scenario set and time horizon chosen by combination of:

- goodness of fit (adj R²)
- alignment to SBTi's precautionary view of overshoot/CDR (max 10 Gt/yr)

Results:

- total 133 scenarios from SR1.5 ensemble
- Adj. R2 ranges from
 - 0.71-0.85 over 15 years
 - 0.84-0.93 over 30 years



Figure: Regression results for chosen scenario set, 5-30 years, for global GHGs

Methodology I Step 2 Target Protocol

Five key quality criteria to assess the validity of targets

Step	Description
1. Target Types	Defines which targets can be scored, e.g. absolute targets, intensity targets. Electricity procurement, net zero, engagement targets are not scored
2. Scope Coverage	Scope 1+2 and scope 3 targets (if scope 3> 40% of total) are scored. These scored will be aggregated to produce a scope 1+2+3 If a scope is not covered by targets, a default score will be used
3. Boundary Coverage	Criteria based on two approaches: setting a minimum coverage at 95% (scope 1 and 2) and 67% (scope 3), or using a weighted approach e.g. emissions not covered in a scope are scored using default approaches
4. Target timeframe	Targets can be scored over short (2021-2024), mid (2025-2035) and long (2035-2050) timeframes
5. Progress	The first version will focus exclusively on forward looking targets. Ambition is measured from base year to target year. Targets completed by the reporting year are not valid

Methodology I Step 2 Company Protocol

Step by Step guide

- Identify valid target types
- Classify companies by scope
- Classify companies by timeframe
- Apply boundary coverage criteria
- Multiple target filtering
 - Select target with highest boundary coverage
 - Select later target years
 - Absolute targets prioritized



Methodology I Step 2 Company Protocol

Outputs at a company level: produce one temperature score for each scope and applicable timeframe.

	Short-term 2021-2024	Mid-term 2025-2035	Long-term 2035-2050
Scope 1+2 GHG: 450,000t	No target/ default score: 3.2°C	Yes 1.8°C	Yes 1.9°C
Scope 3 GHG: 2,100,000t	No target/ default score: 3.2°C	No target/ default score: 3.2°C	No target/ default score: 3.2°C
Scope 1+2+3 GHG: 2,550,000t	No target/ default score: 3.2°C	GHG weighting applied to produce a composite score:	GHG weighting applied to produce a composite score:
		(450,000*1.8°C)+(2,100,000*3.2°C)/ (450,000+2,100,000) =	(450,000*1.9°C)+(2,100,000*3.2°C)/ (450,000+2,100,000) =
		2.95°C	2.97°C

Methodology I Step 3 Portfolio Protocol

1. Definition of three weighting objectives & six principles, including

Support GHG disclosure by companies, allow portfolio alignment, standardisation of metrics, comparability, applicability, clarity etc.

2. Assessment of four weighting approaches against objectives & principles:

Option 1	Weighted average temperature score (WATS)
Option 2	Total emissions weighted temperature score (TETS)
Option 3	Market Owned emissions weighted temperature score (MOTS)
Option 4	Enterprise Owned emissions weighted temperature score (EOTS)
	Enterprise Value + Cash Owned emissions weighted temperature score (ECOTS)
	Total Assets emissions weighted temperature score (AOTS)

Methodology I Step 3 Portfolio Protocol

3. Calculation of scores for three sample portfolios

high, medium, low impact under each approach

4. Discussion of results

Recommended approach:

Enterprise owned emissions weighted temperature score (EOTS)

	WATS		TE	TS	MOTS		EOTS	
	Scope	Scope Scope Sco		Scope	Scope	Scope	Scope	Scope
	1+2	1+2+3	1+2	1+2+3	1+2	1+2+3	1+2	1+2+3
High impact portfolio	2.76	3.05	2.94	3.13	3.07	3.17	3.00	3.18
Medium impact portfolio	2.20	2.94	2.06	3.01	1.95	3.09	1.96	3.09
Low impact portfolio	1.93	2.56	1.64	2.34	1.69	2.19	1.72	2.13

lonpany	CDP Addivity	Potitioveight	Investment value(en)	Market owned ervissions Scope142 (tCOve)	Market owned enitations Scope 1-1245(tCO2a)	Eterprise ovnadenissions Scope 142.8CD249	Enterprise overal envirsions Scope 14246(tCO2a)	Tenperature score Scope 1-12 (*C)	Terpeature score Scepe14246(*C)	Scope 1-12 enissions (5COy)	Sope1-1248 evisions BCDy8
Airtiqide	Inorganic base chamicals	30%	100					165	3.20		
BHP	Iran aremining	10%	100			[320	320		
CEMEX	Cenert	10%	100					2.60	3.20		
Dainter AG	Atombies	10%	100					1.50	170		
Air France - KLM	Passinger airlines	10%	100					3.20	3.20		[
Narsk Hudro	Aurinm	10%	100					320	320		
Payal Dutch Shall	Cl & gas refring	10%	100		í	I		3.20	3.20		
Tata Pover Co	Coal generation	10%	100					3.20	820		
Voetakine AG	Iron Gabad	10%	100					2.60	320		
LG Chernited	Other base chemicals	10%	100					260	320		
dak		107%	1000	58,085	132565	11,169	32,327			276333,388	1,995,688,772
Medumimpect portfolic	5										
lonpany	CDP Adivity	Potitioveight	Investment value(@h)	Market owned ervissions Scope142 (tCOve)	Market owned enitations Scope 1-1245(tCO2a)	Eterprise ovvadenissions Scope 142 (COD2)	Enterprise overal envisions Scope 1-1246(tCO2e)	Tenperature score Scope 1-62 (*C)	Temperature score Scope14248(*C)	Scope 1-12 envisaions (BCOye)	Sope1-1940 enissions (BCDys)
3M Congany	Speciality chemicals	10%	100					165	3.20		
ASML Holding	Bedraric components	10%	100					3.20	320		
Bayer AG	Phenaoaticals	10%	100		1			3.20	3.20		
Carrefour	Supermarkets, food & dugstores	10%	100					170	320		
KmeOv	Electrical equipment	10%	100			1		165	8.20		L
LG Bedurics	Household appliances	10%	100					160	320		
McDanelds Coparation	Fast food	30%	100					175	175	Î Î	
OMRON Corporation	Industrial reachinery	10%	100					1.80	320	Î Î	
Sairt-Ocbain	Gaspodats	30%	100					2.00	200		
Atlas Copco	Industrial machinery	10%	100					3.20	320		
dak		107%	1000	1,120	16,290	637	9,698			25,273,661	294071,011
.owimpact portfolio											
Company	CDP Adixity	Potitiowsight	Investment value(@m)	Markat owned enviazions Sospe 1-62 (tCO2e)	Market oversed enitasions Scope 1-12+19(tCO2a)	Biterprise ovnedenisaions Scope 142(8:CD2a)	Enterprise overal envisions Scope 1-1248(tCD2e)	Scope 1-12 (*C)	Sope1426(*C)	Scape 1-12 enviseions (bCOye)	Sopel-1218 emissions 8:CDys)
Adda Inc.	Sobrare	30%	100					170	200		
Burberry Group	Apparel 6r footwaar	10%	100			I		1.50	1.80		
Asahi Group Hiddings, Ltd	Alcoholic beverages	30%	100					165	1.05		
Kellogg Company	Baked goods & correals	10%	100					165	195		
Celgane Corporation	Biotachindiog/	30%	100					3.20	3.20		
Microsoft Corp	Solbrare	10%	100					1.50	200		
Vivend SA	Mada	30%	100			1		3.20	3.20		
Danake Bark: A/S	Barks	10%	100				1	160	320		
/KA Group	Insuance	10%	100	I		1		1.60	3.20		
			100					1.50	320		



Consultation Process

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Consultation I Documents for review

1. Methodology will be open for review and comment. Participants can review draft document



2. Online Survey: ask specific methodological questions e.g. default methodology, portfolio aggregation steps



Consultation I Survey Overview



Pai				neral Information and familiarity with using targets and apperature scores to assess corporate ambition
	Part Prote	2: Target ocol	s	Space for open comments on the approach to scenario selection and regression modelling. Seeking feedback on the default scoring approaches
	Part 3: Company Protocol		ny	Seeking feedback on the criteria for emissions coverage within scopes and timeframes used when generating temperature scores.
		Part 4: Port Protocol	folio	Seeking feedback on the six weighting options presented, to understand which is the most relevant for temperature scoring.

Consultation I Key Questions

Target Protocol

1. General feedback on scenario approach and regression models

For companies who do not publicly disclose targets, we are seeking feedback on the approach to default scores

- 2. Should a default score be applied? If yes, which level should it be applied at i.e. company and/or portfolio level
- 3. Feedback on the approach to defining the temperature score e.g. 3.2°c

Company Protocol

- 4. Which approach to scope coverage is most suitable for temperature scoring i.e. should the same strict thresholds of the SBTi be employed, or a weighting approach that limits the score to the coverage of emissions
- 5. Scores can be generated across 3 timeframes, short, mid, long-term. When it comes to using temperature scores, we are seeking feedback on which timeframes would be most relevant

Portfolio Protocol

6. Feedback on which of the six approaches to weighting temperature scores in a portfolio is most credible

Consultation I Consultation timeline

- The consultation period will open on April 30 and run until May 22.
- The content received will be used to revise and update the methodology in anticipation of publication later this year. Any additional information to justify or support comments is also welcomed.
- All input received will be kept confidential and internal





Next Steps for SBTi Finance Framework

Next Steps I Tool development process



Next Steps I Temperature alignment and portfolio coverage

Temperature Scoring	Protocols		
Open source	Alignment Method 8		
Translating targets to temperature scores & portfolio	Open Source	Investor solutions	
coverage Developed by •WWF •CDP	Enable investors to align portfolios to °C goal / portfolio coverage Action companies Developed by •SBTi-Finance •Technical consultants	Commercial Integrating data sources & workflow ISS, Bloomberg, CDP, MSCI, etc Submit emission reduction target to SBTi for validation	
		EU Paris Agreement Alignment Disclosure Regulation	

Next Steps I Temperature Alignment and Portfolio Coverage



•EU Paris Alignment Disclosure

Next Steps I Opportunities for participation

SBTi-Finance Framework

- Stakeholder list
- Criteria feedback
- May 19 webinar
- Guidance review
- Commit to setting SBT
- Submit target for review

SBTi-Finance Temperature Alignment Method

- Review method
- Complete survey

SBTi-Finance Tool Development

- Join working group
 - User developer
 - Data & service providers
- Beta test tool
- Integrate tool

Questions & discussion



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