

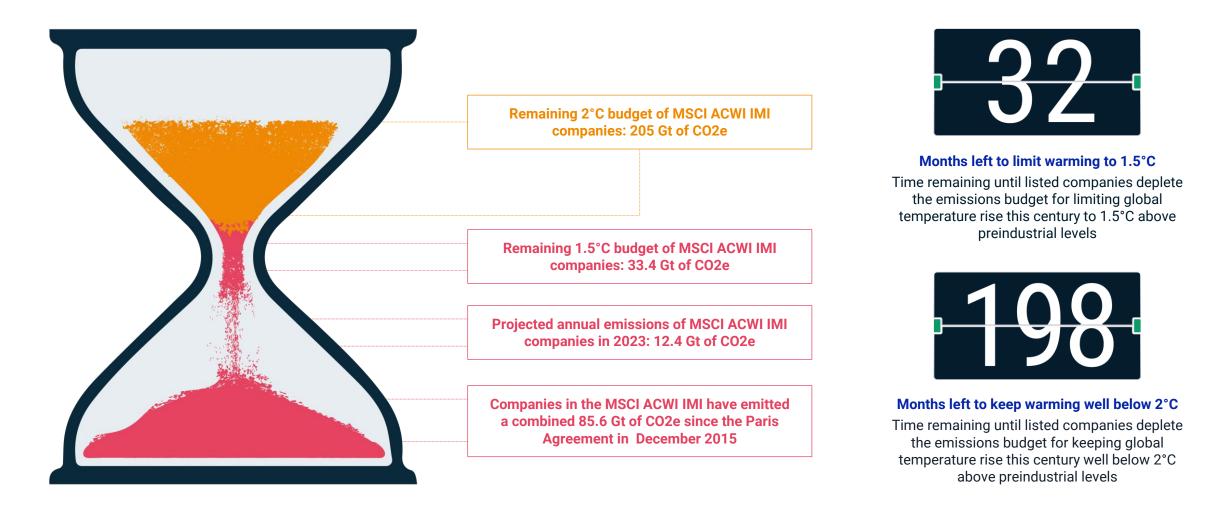
Impact Klimaanalyse eines typischen österreichischen Portfolios

CLARITY DRIVES ACTION

MSCI Climate Solutions



The Countdown Clock to 1.5°C is Ticking Louder Than Ever





Progress investment world \Leftrightarrow progress real economy

Asset Managers, Asset Owners, Banks & Insurers

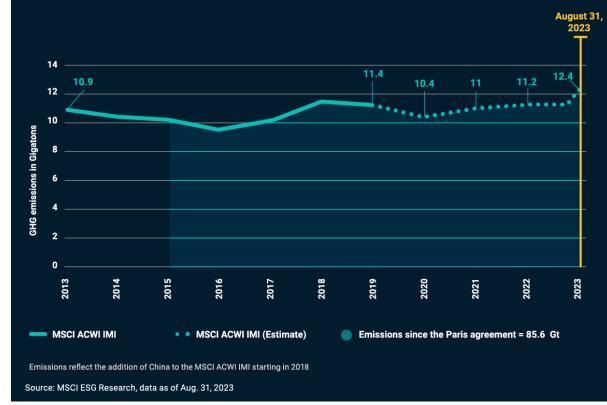
- The Net Zero Asset Manager Alliances: boasts over 315 signatories with a combined \$57 trillion AUM.¹
- The Net Zero Asset Owner Alliance: boasts over 88 signatories with \$9.5 trillion AUM ²



History of scope 1 emissions of MSCI ACWI IMI* companies

Scope 1 greenhouse gas emissions of listed companies

Listed companies' Scope 1 emissions are on track to climb nearly 11% this year (Exhibit 17). Such emissions, however, would need to fall by 43% this decade if society is to limit the rise in average global temperatures to 1.5°C.





*MSCI ACWI Investable Markets Index (IMI). Emissions reflect the addition of China to the MSCI ACWI IMI starting in 2018. Chart shows Scope 1 greenhouse gas emissions of listed companies Source: The MSCI Net-Zero Tracker – MSCI

1 https://www.netzeroassetmanagers.org/

As an Asset Manager, Your Objective is to See the Future of Investment Management

Engage & Advocate

- Promote climate leadership with clients and stakeholders
- Advocate for climate policy
- Develop systematic approach for engagement (MSCI target scorecard, CA100+, NZIF)

Scenario Analysis & Stress Testing

Evaluate forward looking company exposure for 1.5°C, 2°C and 3°C, 4°C & 5°C scenarios.

Report & Disclose

- Develop climate reporting KPIs
- Report on progress and actions
- Adhere to regulatory reporting requirements

Construct

Win climate-focused mandates and construct portfolios that advance client's climate strategies and benchmark performance

Measure

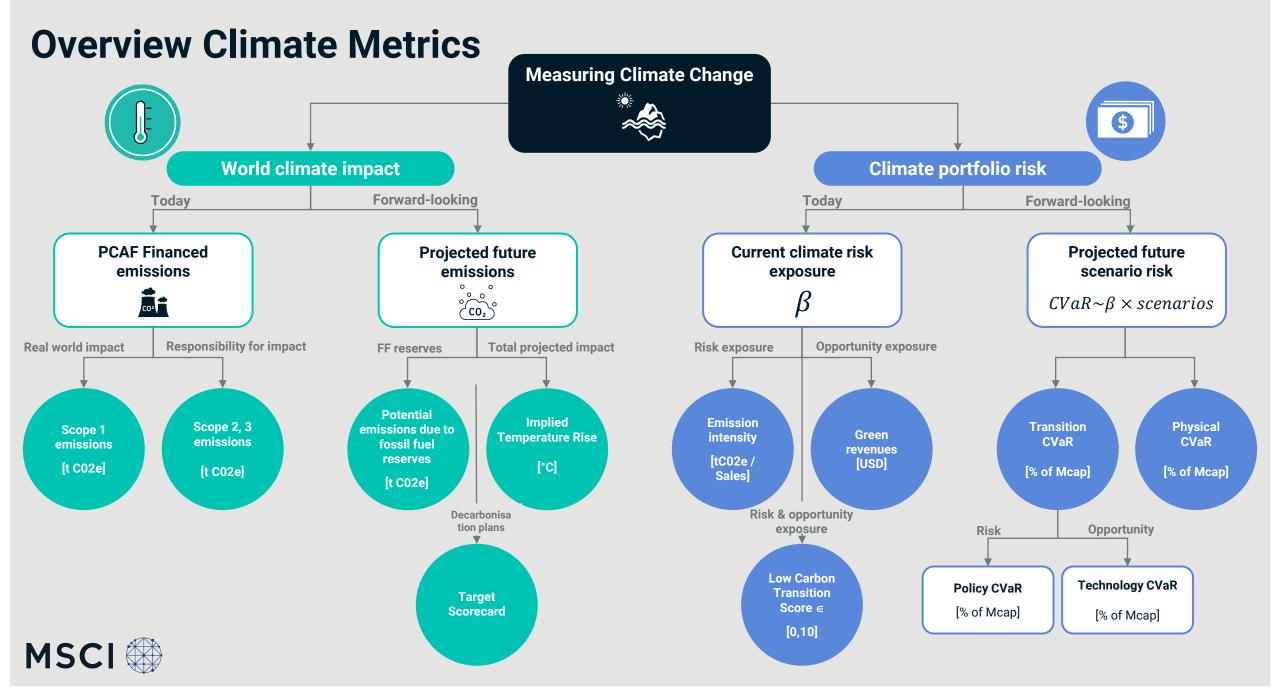
Establish emissions baseline by measuring financed scope 1, 2 & 3 emissions

Set targets

Set climate targets across entire portfolio & identify exposure to transition and physical risks and opportunities

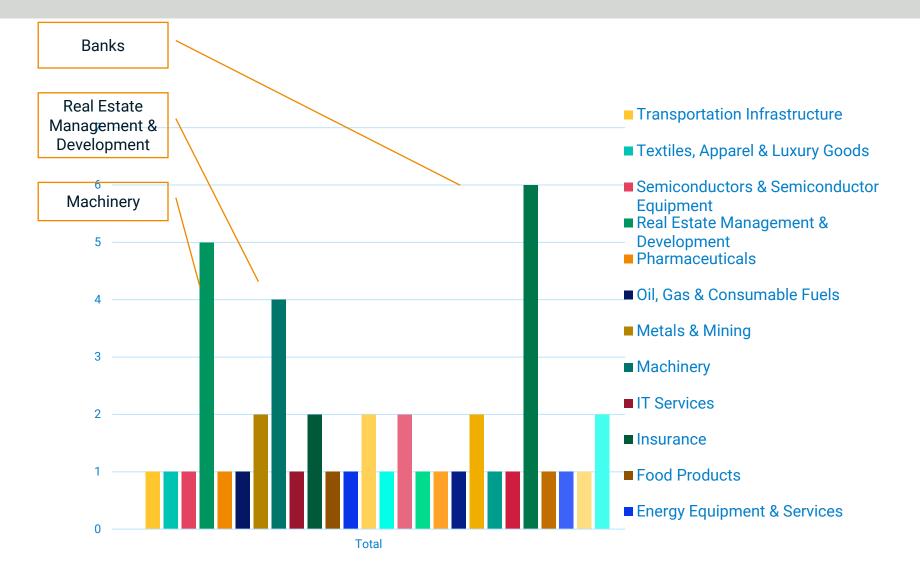
Develop Develop climate-focused products





Austrian Equity Portfolio Example

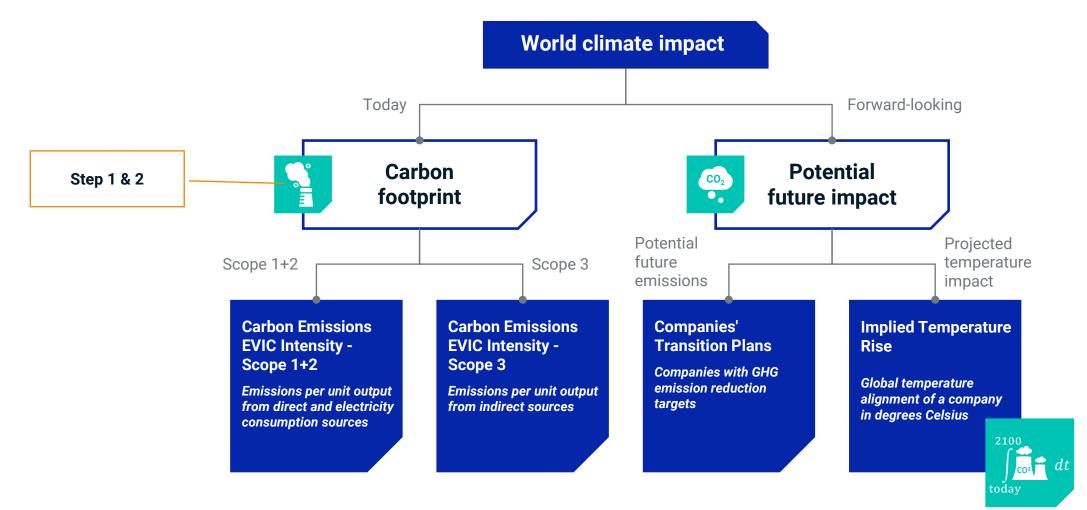
- 44 positions
- Equally weighted
- Value: 1.000.000 EUR
- Country Exposure: AT, Additionally: DE & CH



X: sector distribution Y: number of companies



Where to Begin: Measuring a Portfolio's Carbon Footprint to Set a Baseline



MSCI 💮

What climate metrics shall I use to track my carbon footprint?

Each climate metric answers a slightly different question:

Financed emissions = emissions "owned" by the portfolio: How much GHG emissions am I financing? [t CO2e]

Financed emissions intensity (FEI) = weighted emissions / EVIC: How much GHG emissions am I financing per dollar invested? [t CO2e / USD]

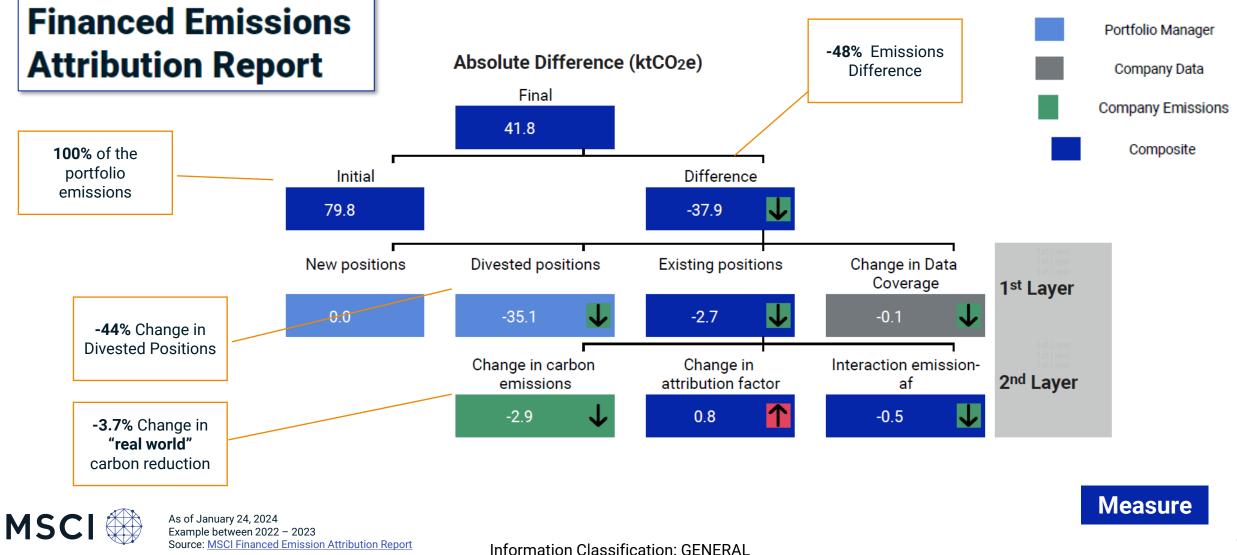
Weighted average carbon intensity (WACI) = weighted emissions / Sales: How carbon intense are the business models of the companies that I am invested in? [t CO2e / USD]

🧘 Carbon Footprint				
		Portfolio	Benchmark	Active
Allocation Base	EVIC			
Financed Carbon Emissions	Scope 1+2	161.7	70.6	129.1%
tons CO2e / USD M invested Investor Allocation:	Scope 3 – upstream	348.4	150.7	131.3%
EVIC	Scope 3 – downstream	514.8	344.6	49.4%
Total Financed Carbon Emissions tons CO2e	Scope 1+2	161,698.9	70,568.6	129.1%
Investor Allocation:	Scope 3 – upstream	348,390.5	150,654.4	131.3%
EVIC	Scope 3 – downstream	514,807.6	344,584.2	49.4%
Financed Carbon Intensity tons CO2e / USD M sales	Scope 1+2	151.9	134.5	12.9%
Investor Allocation:	Scope 3 – upstream	327.2	287.0	14.0%
EVIC	Scope 3 – downstream	483.5	656.4	-26.3%
Weighted Average Carbon Intens	sity			
	Scope 1+2	146.8	95.0	54.5%
Corporate constituents tons CO2e / USD M sales	Scope 3 – upstream	309.8	276.4	12.1%
	Scope 3 – downstream	453.0	465.5	-2.7%

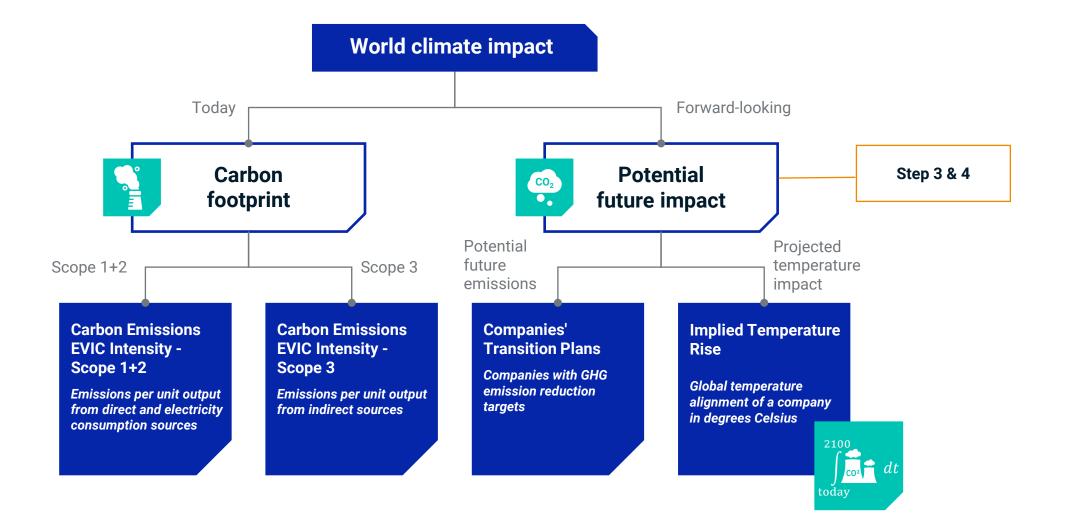


Measure

MSCI Solution: Tracking the Austrian Portfolio Emissions Reduction Progress (Example) Absolute Difference (ktCO2e)



Where to continue: Measuring a Portfolio's Potential future impact





Climate Target Scorecard

- Normalize and compare corporate climate targets
- Assess the credibility of companies' transition plans to net-zero across the various emission scopes

Austrian Portfolio Example:

Portfolio : Equity Portfolio Example Benchmark : MSCI ACWI IMI Europe

* Companies' Transition Plans				
	Portfolio	Benchmark	Active	
Companies with GHG emission reduction targets	54.5%	94.4%	-39.8%	
Companies with targets across all scopes	27.3%	80.6%	-53.3%	
Companies with SBTi approved targets	20.5%	58.3%	-37.9%	
Companies with top quartile carbon management score	18.2%	69.2%	-51.0%	

Set targets

Drivers of Carbon Emissions				
Mega tons of CO2e				
Scope 1 (Reported, 2020)	63.00			
Scope 2 (Reported, 2020)	9.00			
Scope 3 (Estimated, 2020)	656.58			
Scope 3 (Reported, 2020)	1.34K			
Est. Ratio of Reported vs Total Estimated Emissions*	194%			
Target Scorecard				
COMPREHENSIVENESS	AMBITION			
100.00% % of company footprint covered by target	-3.23% p.a. Projected reduction per year to meet stated target**			
Comprehensiveness				
Туре	ABSOLUTE, INTENSITY			
Unit	tCO2e, tCO2e/megajoules (MJ)			
Target Scopes	1 2 3			
Scope 3 upstream categories	1 2 3 4 5 6 7 8			
Scope 3 downstream categories	9 10 11 12 13 14 15			
% of Company footprint covered by target	100%			
Ambition				
Target Calculation date (YYYYMMDD)	20220815			
Intention to use carbon offsets	Yes			
Projected change per year to meet stated target**	-3.23% p.a.			
Target Year	2050			
Feasibility				
Track record of meeting historical targets	Met some targets			
Progress towards active targets	On track with some targets			
SBTi Commitments				
Does the company have at least one SBTi Target approved				
Has the company committed to setting a SBTi target				



Austrian Portfolio Example Calculation As of January 24, 2024: Source:: MSCI One: https://www.msci.com/insights-on-msci-one Climate Risk Report

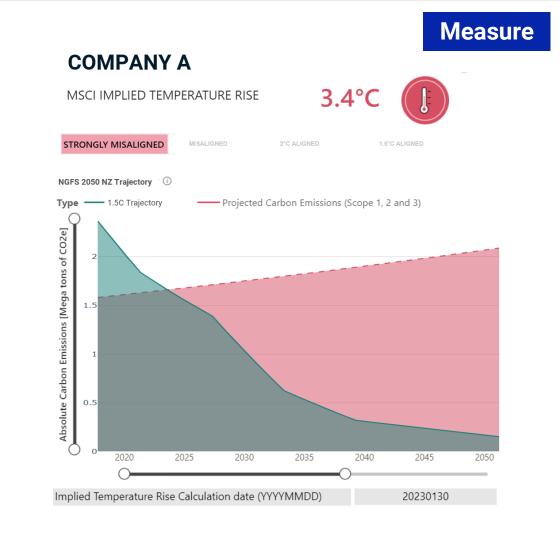
Information Classification: GENERAL

MSCI Implied Temperature Rise



What does it measure?

- Estimates how companies and investment portfolios align with international goals to limit global warming
- The measure, expressed in °C, estimates the global rise in average temperature by 2100 and later if the global economy were to overshoot (or undershoot) its remaining carbon budget to the same extent as the company or portfolio in question
- Designed to align with the GFANZ Portfolio Alignment Best Practice Report





Austrian Portfolio Analysis: MSCI Implied Temperature Rise



Calculation Date: As of January 24, 2024

Example: Implied Temperature Rise at the company level: High Output

Company Example

Industry: Integrated Oil & Gas Country/Region: Austria

MSCI IMPLIED TEMPERATURE RISE



STRONGLY MISALIGNED

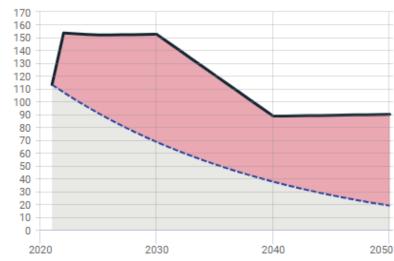
Annual Projected Carbon Emissions
 MSCI 2°C Trajectory (Annual Budget)
 Absolute Carbon Budget Overshoot
 Absolute Carbon Budget Undershoot

Decarbonization data as of January 15, 2024*

An Implied Temperature Rise of **above 3.2°C** indicates that the company is strongly misaligned with global climate goals. Its contribution to catastrophic climate change is higher than most.

2°C Trajectory

Absolute emissions [Megatons CO2e]



Decarbonization Target

2

Does the compa decarbonization ta	•	YES
•	ny : have a decarbo idered in the calculation of ire Rise?	onization YES
Target Year		2040
Comprehensivene % of company footpr		92.7%
Ambition Projected reduction p	per year to meet stated target**	-2.35% p.a.
Target data as of Jar	uary 15, 2024*	

Engage & Advocate



Example: MSCI Implied Temperature Rise Company Analysis: Low Output

Company Example

Industry: Utilities Country/Region: Austria

MSCI IMPLIED TEMPERATURE RISE

2°C ALIGNED

Annual Projected Carbon Emissions
 MSCI 2°C Trajectory (Annual Budget)
 Absolute Carbon Budget Overshoot
 Absolute Carbon Budget Undershoot

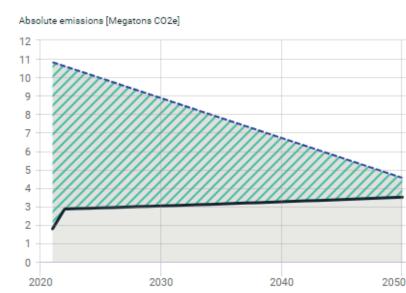
Decarbonization data as of January 15, 2024*

An Implied Temperature Rise of **between 1.5 and 2.0°C** indicates 1 the company is in line with the Paris agreement's minimal goal of limiting global mean temperature to below 2°C.

2°C Trajectory

ļ

1.7°C

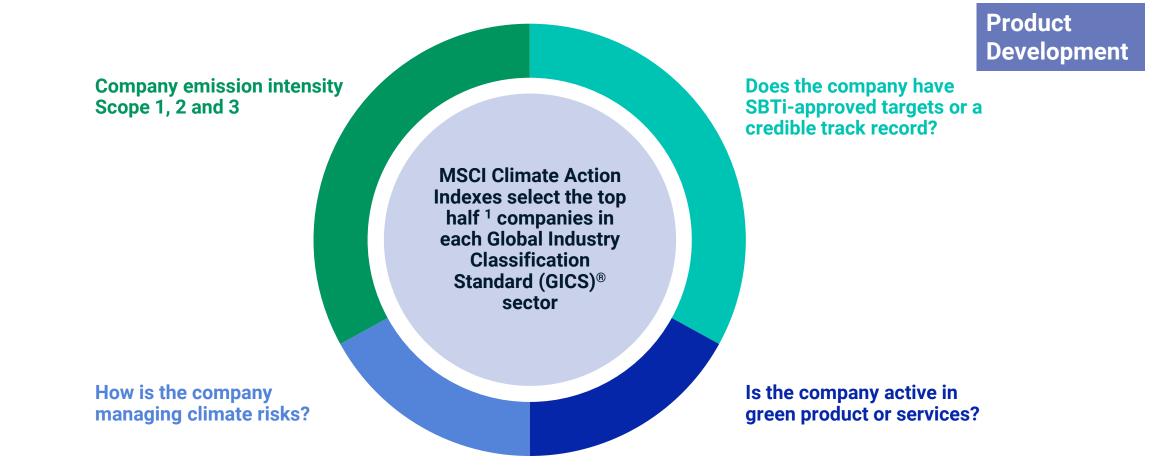


Engage & Advocate Decarbonization Target 0 Does the company have a YES decarbonization target? Does the company have a decarbonization target that is considered in the calculation of YES Implied Temperature Rise? Target Year 2050 Comprehensiveness 30.63% % of company footprint covered by target Ambition 0.8% p.a. Projected reduction per year to meet stated target**

Target data as of January 15, 2024*

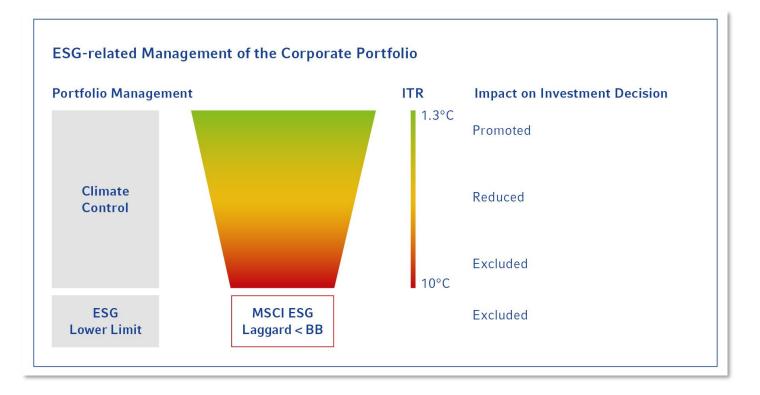


Example: How to identify climate transition leaders/laggards?





Portfolio Managers taking into account the Implied Temperature Rise (ITR)



- Construct
- The Implied Temperature Rise (ITR) is a key component in the consideration of transformation opportunities/risks
- Measures the alignment to Paris climate goals:
 - The overarching objective is the achievement of a climate-neutral investment portfolio by no later than 2045 to support the limitation of the temperature rise to 1.5°C.



MSCI ESG Research: Scenario Analysis / Temperature Alignment Coverage

	Coverage	Transition Risk	Technology Opportunity	Physical Risk	Implied Temperature Rise
Listed Equity & Corporate bonds	 12,500 entities directly covered 19,000 with inheritance 100% of ACWI IMI 95% of BBG Barclays Global Agg Corpor. 	\checkmark	\checkmark	\checkmark	\checkmark
Sovereign Bonds	+9,000 securities46 markets	\checkmark			\checkmark
Commercial Real Estate	• 1 million private assets	\checkmark		\checkmark	\checkmark
Private Equity & Debt	 Private companies: proxies forthcoming 7,000 private equity and private-debt funds (Private Capital Solution) * * Private Data Company Connect (PCDC) 	\checkmark	\checkmark	\checkmark	\checkmark
*	As of January 2024	1 1		🗸 Available	today

*As of January 2024 ** Burgiss

Forthcoming 2024





MSCI ESG & CLIMATE RESEARCH

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