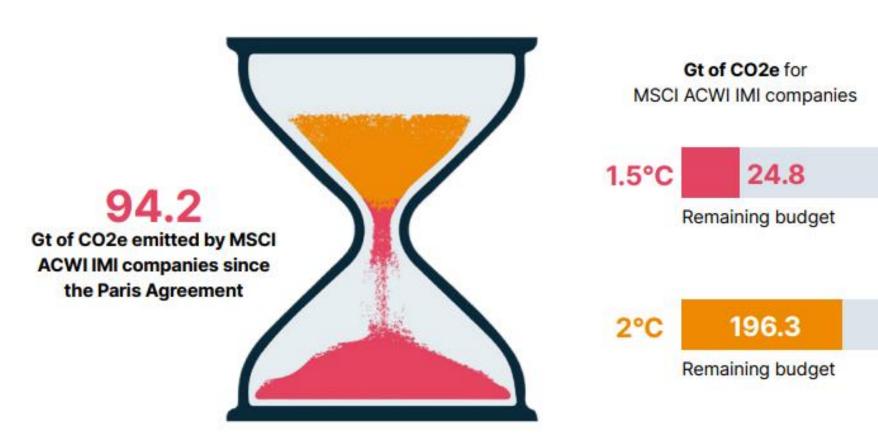


## Time remaining to rein in the impacts of a warming climate





months left to limit warming to 1.5°C



months left to limit warming to 2°C



MSCI All Country World Index Investable Market Index Source: MSCI ESG Research, data as of August 31, 2024

# Progress investment world vs. progress real economy

Although targets and commitments are being made – there is yet to be a significant reduction in real world emissions as shown by the MSCI Net-Zero Tracker

#### **Net-Zero Commitments by investors**

#### Net Zero Asset Managers Initiative<sup>1</sup>

- ▶ Reach net zero by 2050
- Set 2030 interim target in line with net-zero by 2050
- Review interim target at least every 5 years to increase percentage of AUM covered until 100% is achieved

#### Net Zero Asset Owner Alliance<sup>2</sup>

- ▶ Reach net zero by 2050
- Set interim targets to include 22-32% emissions reduction by 20205 and 40-60% by 2030.

#### **Net Zero Investment Framework**

Align investment portfolios with the goals of the Paris agreement

#### Global and listed-company GHG emissions

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024 (estimated)
Global GHG emissions*	51.7	51.8	51.9	53.5	55.3	59.1	54.6	55.9	56.3	57.1	-
MSCI ACWIIMI Scope 1**	10.4	10.2	9.6	10.2	11.4	11.4	10.4	11.6	11.3	11.1	11.0

Source: MSCI ESG Research, data as of Aug. 31, 2024

#### **Net-Zero Banking Alliance**

- Transition the operational and attributable greenhouse gas (GHG) emissions from their lending and investment portfolios to align with pathways to net-zero by 2050 or sooner.
- Set targets for 2030 or sooner and for 2050
- 2030 targets to focus on priority sectors most GHG intensive sectors – with additional sector targets to be set within 36 months
- Publish annual absolute and emission intensity within a year of setting targets



# Steps financial institutions can take to transition to Net-Zero: How MSCI can help



#### **Measure and Set Targets**

#### Measure baseline emissions

 Calculate financed emissions across asset classes

#### **Set targets**

 Assess companies' decarbonisation strategy in line with industry best practice (Alliances, PAII IIGCC)

#### Align to net-zero pathways

Measure portfolios temperature alignment (ITR)

#### Track real world progress

Use Emissions Attribution report to identify the sources of changes in emissions

#### Report, Disclose and Engage

#### Report investment alignment to Net Zero

Using temperature alignment metrics (ITR) and/or PAII IIGCC Net Zero Investment Framework

#### Vote and engage

 Assess company decarbonisation strategy's comprehensiveness, ambition and credibility assessment with MSCI Target Scorecard

#### Portfolio alignment

#### **Decarbonise Portfolio**

▶ Identify high emitters with insufficient decarbonization pathways

#### **Invest in Green Tech and carbon projects**

- Assess company`s green revenue and green capex
- In depth carbon markets insights\*

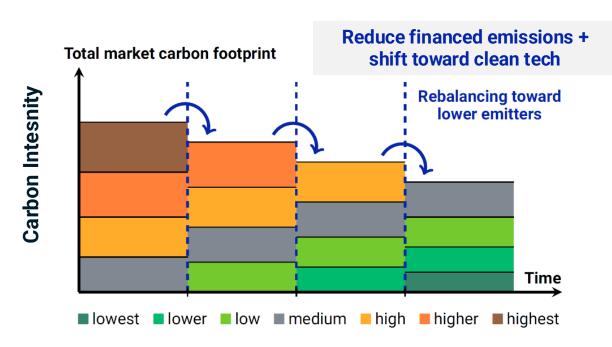
#### **Build new investment products**

Use climate metrics to define investment products aligned to Net-Zero



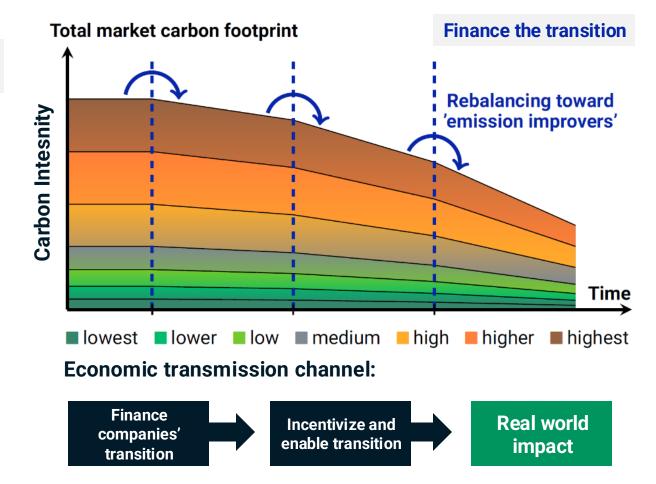
# Strategic Approaches: Decarbonization vs. Finance Transition

Two main approaches: 1) Restructure the portfolio and shift capital to greener stocks and sectors or (2) Finance the transition, change the profile of companies in the portfolio towards those with potential to lead





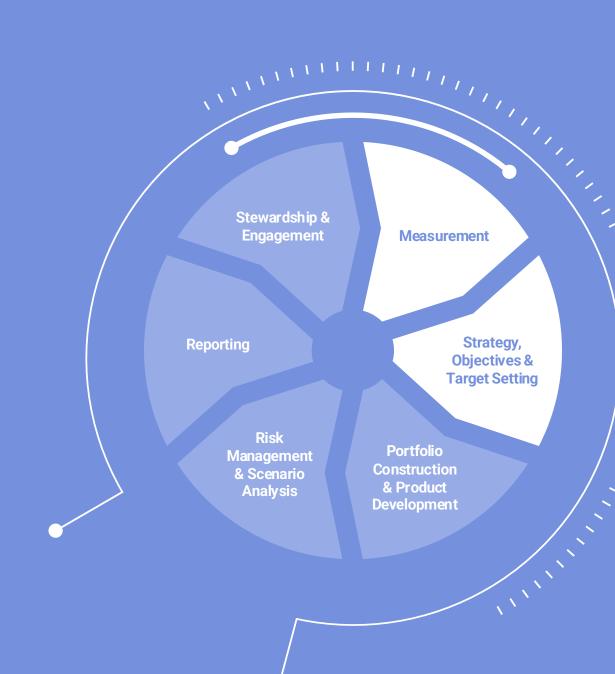






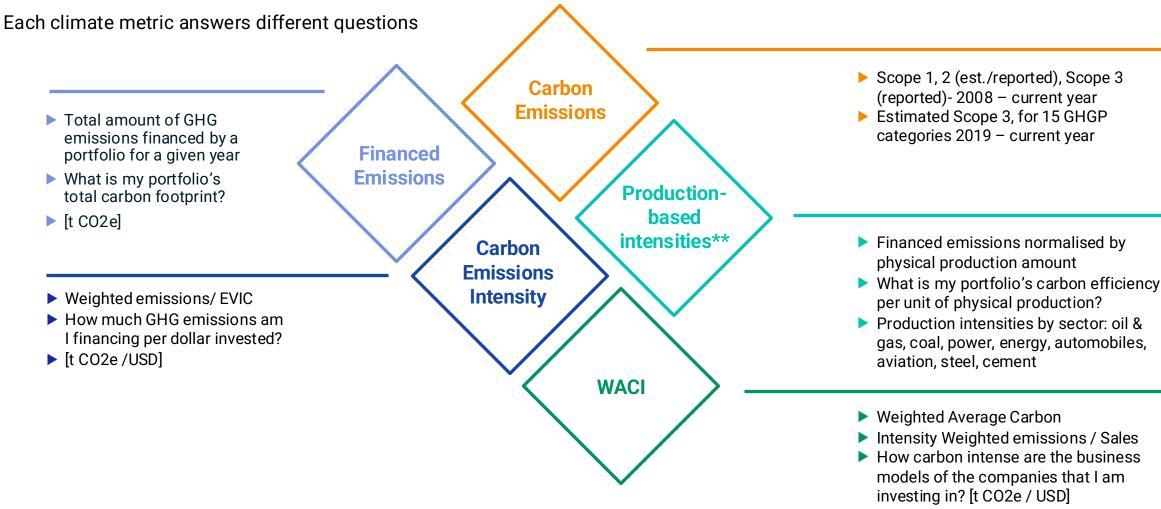
MSCI ESG Research "Financing the Climate Transition: Investment rationale and implementation approaches" – June 2024

# Measure and Set Targets



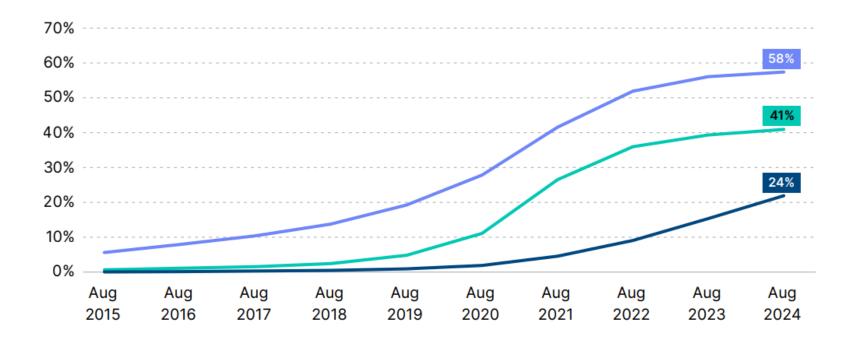


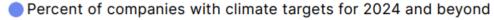
# What climate metrics shall I use to track my carbon footprint?



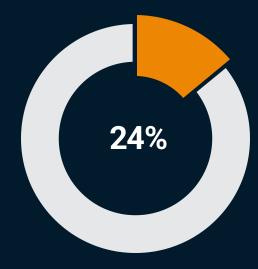


### How can I track climate and net-zero targets?





- Percent of companies with self-declared net-zero targets, including SBTi-approved net-zero targets
- Percent of companies with science-based targets



Share of listed companies that have set science-based climate targets



# How do I track transition plans using the MSCI Climate Target Scorecard?

- Normalize and compare corporate climate targets, including SBTi
- Assess the credibility of companies' transition plans to netzero across the various emission scopes

Portfolio Example:							
** 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%				

Portfolio: Equity Portfolio Example Benchmark: MSCI ACWI IMI Europe

#### 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 -3.23% p.a. 100.00% % of company footprint covered by target Projected reduction per year to meet stated target\*\* Comprehensiveness Type ABSOLUTE, INTENSITY tCO2e, tCO2e/megajoules (MJ) Unit Target Scopes Scope 3 upstream categories 11 12 13 14 15 Scope 3 downstream categories % 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

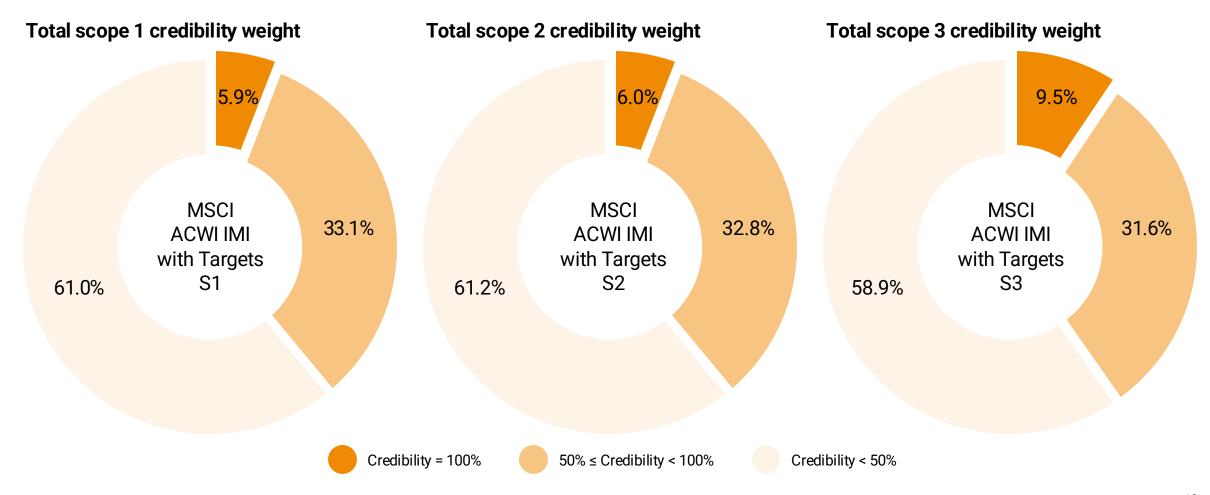


SBTi Commitments

Does the company have at least one SBTi Target approved Has the company committed to setting a SBTi target

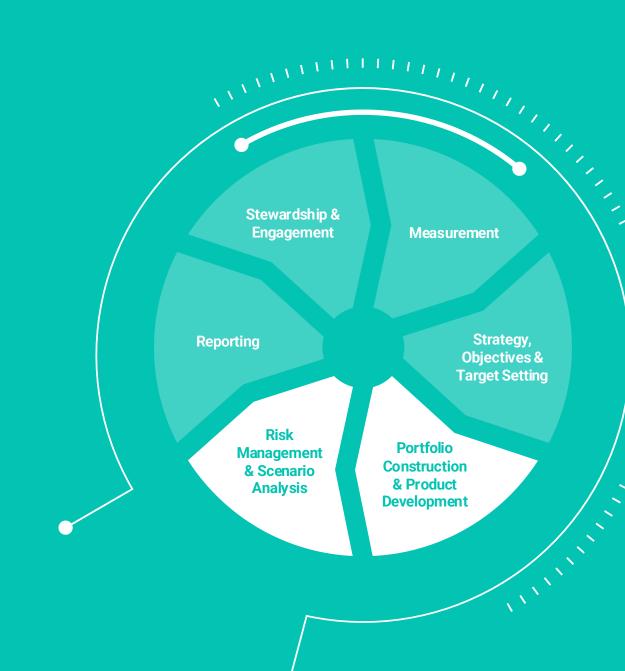
# How credible are companies targets across all emission scopes?

Within eligible companies in MSCI ACWI Investable Market Index (IMI), a minority manage to get a full credibility weight of 100% for a given scope.





## **Portfolio Alignment**





# How can I measure Net Zero alignment with MSCI Implied Temperature Rise (ITR)?

#### What does it measure?

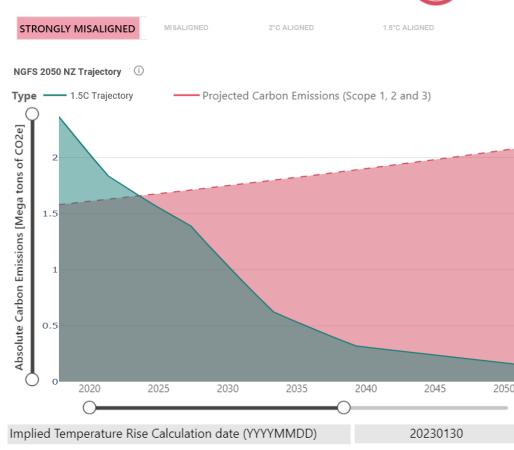
- Estimates how companies and investment portfolios align with international goals to limit global warming
- ▶ The measure, expressed in °C, estimates the global rise in average temperature by 2100 and later if the global economy were to overshoot (or undershoot) its remaining carbon budget to the same extent as the company or portfolio in question
- based on a science-based 1.5 °C decarbonization pathway, aligned to GFANZ best practice guidance

#### **COMPANY A**

MSCI IMPLIED TEMPERATURE RISE

3.4°C



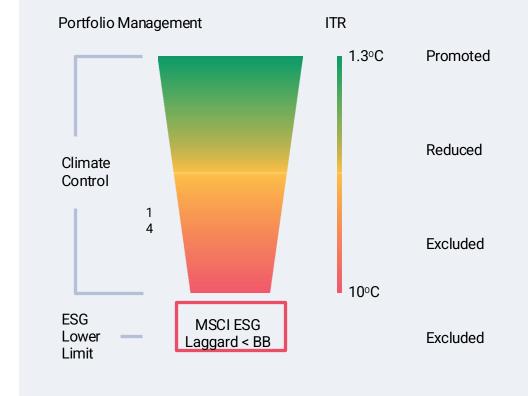




# Portfolio Managers taking into account the Implied Temperature Rise (ITR)

- ➤ The Implied Temperature Rise (ITR) is a key component in the consideration of transformation opportunities/risks
- Measures the alignment to Paris climate goals:
- Utilizing the ITR parameter facilitates setting interim targets and making necessary adjustments to achieve desired management outcomes.
- The initial interim operational target is to enhance the ITR management parameter of the corporate portfolio by approximately 0.5°C by 2026.

#### **ESG-related Management of the Corporate Portfolio**





## **Overview**



#### What is this product about?

- ESGM indicative mapping of the Net Zero Investment Framework (NZIF), which was developed by and for Paris Aligned Investment Initiative (PAII) members: IIGCC, Ceres, Asia Investment Group on Climate Change, Investor Group on Climate Change.
- Mapping across 12,000+ listed companies (Climate Universe Metrics), to frequently be updated biweekly with new input data (e.g., disclosure data).
- This is a type of maturity scale, i.e., a grouping of portfolio companies into alignment categories based on certain criteria. It is a way of measuring portfolio 1.5°C alignment, like Implied Temperature Rise (ITR).
- Interpretation of the NZIF text was discussed with the secretariat of the Institutional Investors Group on Climate Change (IIGCC).





## **Expected use case of the NZIF maturity scale**

1. Assess alignment of assets

Achieving net zero

Aligned

Aligning

Committed

Not aligned

2. Establish baseline

Baseline



3. Set 5-year targets



Baseline + 5 years

## PAII NZIF maturity scale: six criteria

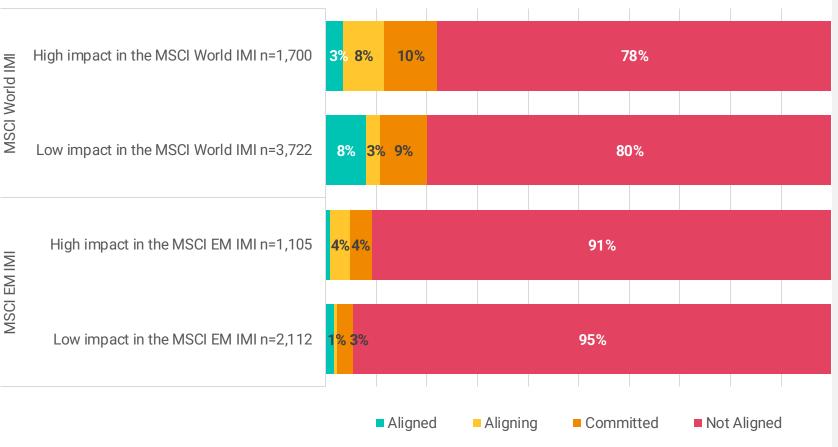
Criteria for lower impact companies

Asset alignment criteria						
Criteria	Descriptions	Net-zero	Aligned	Aligning	Committed	Not aligned
Net-zero criteria	Achieving the emissions intensity required by the 2050 pathway and an investment plan that will maintain it.					
1. Ambition	A long-term 2050 goal consistent with achieving global net-zero					
2. Targets	Short- and medium-term emissions reduction targets (Scope 1, 2 material Scope 3)					
3. Emissions performance	Current emissions intensity (Scope 1, 2 material Scope 3) performance relative to targets					
4. Disclosure	Disclosure of Scope 1, 2 material Scope 3 emissions					
5. Decarbonization strategy	A quantified plan setting out the measures that will be deployed to deliver GHG targets, proportions of revenues that are green and where relevant increases in green revenues					
6. Capital allocation alignment	A clear demonstration that the capital expenditures of the company are consistent with achieving net-zero emissions by 2050					

Source: IIGCC: Net Zero Investment Framework: Implementation Guide (Version 1.0 March 2021)

# Market trends: Regulations driving differences in NZIF maturity scales

#### **Distribution of NZIF maturity scale by market and sector**





#### **Key observations: Regulations matter**

- We found that a higher proportion of companies in developed markets (represented by the MSCI World IMI constituents) met the NZIF categories of aligned, aligning and committed vs. companies in emerging markets (represented by the MSCI EM IMI constituents)
- A larger proportion of companies in the highimpact sectors met at least one of the criteria and more likely fall into the maturity scale categories of **aligning** or **committed** than companies in low-impact sectors. Companies in high impact sectors are traditionally facing stronger regulatory pressures to disclose emissions and set targets.
- Stronger requirements for high impact sector companies under the NZIF framework have driven them to either aligning or committed categories. The NZIF framework has required high impact companies not just to disclose emissions and targets but also to reduce emissions per the targets.

Source: MSCI ESG Research as of April 23, 2024.

Information Classification: GENERAL

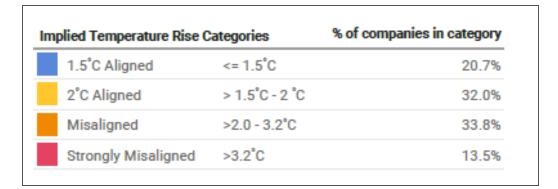
# Report, Disclose, Engage

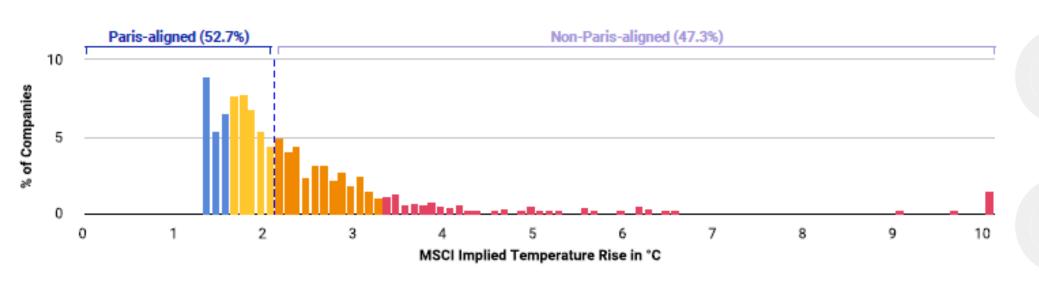




## Can I use ITR to identify listed companies aligned to the Paris Agreement?







≤ 2.0°C 52.7% of companies within the portfolio (vs. 41.6% for the benchmark) align with the goal of limiting temperature increase to below 2°C.



52.7%

20.7% of companies within the portfolio (vs. 14.9% for the benchmark) align with the goal of limiting temperature increase to below 1.5°C.



### Compare the Implied Temperature Rise (ITR) of different companies

**TESLA. INC.** 

(TSLA)

127.5

120

112.5

105

97.5

82.5

67.5

52.5

37.5

30

15

7.5

2020

22.5

90

75

60

Industry: Automobiles

Country/Region: United States of Am



ENI S.P.A.

(ENI)

Industry: Integrated Oil & Gas

Net-Zero 2050 Alignment

Country/Region: Italy



**DANONE SA** 

(BN)

**Industry:** Food Products Country/Region: France



**EXXON MOBIL CORPORATION** 

(XOM)

2020

Industry: Integrated Oil & Gas

Country/Region: United States of America



1.5° Aligned

2 ° Aligned

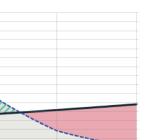
**Net-Zero 2050 Alignment** 

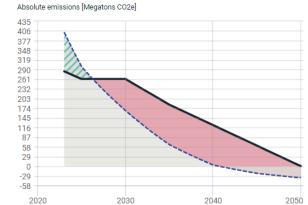
**Strongly Misaligned** 

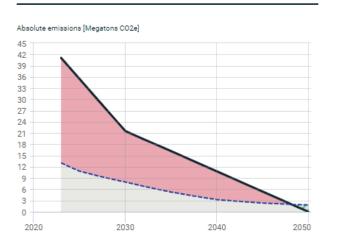
Net-Zero 2050 Alignment

Net-Zero 2050 Alignment

Absolute emissions [Megatons CO2e]







Misalianed

Absolute emissions [Megatons CO2e] 1552.5 1449 1345.5 1242 1138.5 1035 931.5 828 724.5 621 517.5 414 310.5 207 103.5 -103.5 -207

2030

Decarbonization data as of February 12, 2024\*

 Annual Projected Carbon Emissions MSCI Net-Zero 2050 Alignment (Annual Budget) Absolute Carbon Budget Overshoot

2040

Absolute Carbon Budget Undershoot



2030



#### Single integrated platform

For access to all current and future MSCI ESG and Climate reports - Regulatory and Standard, Issuer, Fund, Portfolio and Index

#### **Batch reporting**

Generate reports using a streamlined and intuitive workflow that includes advanced reporting capabilities such as batch portfolio loading

#### **Enhanced Data Coverage**

Extensive data coverage across public and private asset classes for a more complete representation of your portfolios

#### Regulatory specific reporting

Continually expanding regulatory library, starting with currently available SFDR, EU Taxonomy, Swiss Climate Scores

#### Point in time analysis

'As of' date functionality

### **Standard and Customizable Reporting**

On Demand, Managed Service, and customizable reporting













## Outlook



## Transition readiness vs pressure

External drivers provide context for company-specific readiness

#### **Transition Readiness**

Company-Specific

Company readiness

## Transition readiness compared to industry peers?

- Emissions and targets profile
- Clean tech and innovation positioning
- Financing capacity

Outcome: The more prepared a company is to transition – or the farther along it is in its transition – the better positioned it is to avoid costs, preserve market share, or capitalize on growth opportunities.

#### **Transition Pressure**

External

#### Policy pressures

Where are policies strongest to pressure industries to decarbonize or support decarbonizing technologies?

**Outcome**: The stronger the policy pressures, the higher the pressure to transition.

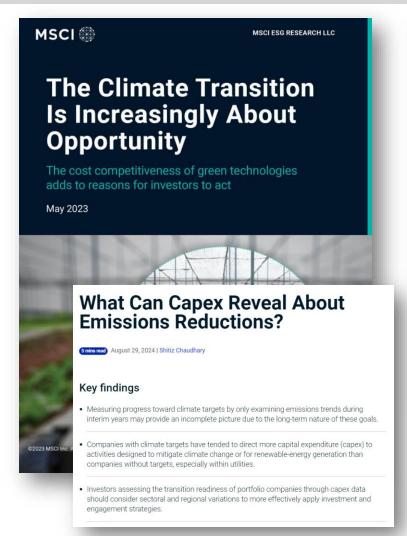
#### **▶** Technology pressures

What is the option set of decarbonization technologies and their level of commercial adoptability in the next five years?

**Outcome**: The more options for a company, the higher the pressure to transition.



## Other MSCI Transition resources



## **Managing Climate-Transition Risk in Credit Portfolios**

M Jan 31, 2022



- · A portfolio's climate-transition risk, a major element of overall climate-change risk, is associated with the portfolio's emission footprint.
- · We investigate two approaches to reduce credit portfolios' exposure to climate-transition risk: using either a decarbonization target as a constraint or a weighting scheme based on the securities' climate profiles.
- Tractability, turnover and trading cost related to each method are crucial factors that may impact the performance of a portfolio and can help in deciding the approach to managing climate-transition risk



Olive Is the New Black: The Rise of **Transition Funds** 

6 mins read September 12, 2024 | Rumi Mahmood, Xinxin Wang, Shuang Guo





Source: www.MSCI.com

# **Appendix**



# Higher impact companies (defined by NZIF): about 35% of companies in MSCI ACWI IMI universe

Coverage: Climate Action 100+ companies + Real estate GICS sector + Banks GICS industry group + GICS sub-industries below:

High impact sector (GICS® Subindustry)	GICSSI Code	High impact sector (GICS® Subindustry)	GICSSI Code
Electricity utilities Energy Integrated Oil & Gas	10102010	Aluminum Materials Aluminum	15104010
Electric Utilities	55101010	Diversified Metals & Mining	15104020
Utilities Independent Power Producers & Energy Traders	55105010	Industrials Trading Companies & Distributors	20107010
Multi-Utilities	55103010	Cement Materials Construction Materials	15102010
Oil & gas Energy Integrated Oil & Gas	10102010	Pulp & paper Materials Paper Packaging	15103020
Oil & Gas Refining & Marketing	10102030	Paper Products	15105020
Oil & Gas Exploration & Production	10102020	Steel Materials Steel	15104050
Oil & Gas Storage & Transportation	10102040	Chemicals Materials Commodity Chemicals	15101010
Diversified Chemicals	15101020	Diversified Chemicals	15101020
Oil & gas distribution Energy Oil & Gas Storage & Transportation	10102040	Fertilizers & Agricultural Chemicals	15101030
Oil & Gas Exploration & Production	10102020	Industrial Gases	15101040
Materials Diversified Chemicals	15101020	Specialty Chemicals	15101050
Coal mining Energy Coal & Consumable Fuels	10102050	Diversified mining Materials Diversified Metals & Mining	15104020
Oil & Gas Refining & Marketing	10102030	Copper	15104025
Consumer discretionary Automobile Manufacturers	25102010	Steel	15104050
Industrials Industrial Conglomerates	20105010	Other industrials Information technology Electronic Equipment & Instruments	45203010
Trading Companies & Distributors	20107010	Technology Hardware, Storage & Peripherals	45202030
Materials Diversified Metals & Mining	15104020	Industrials Aerospace & Defense	20101010
Steel	15104050	Construction Machinery & Heavy Trucks	20106010
Autos Consumer discretionary Automobile Manufacturers	25102010	Heavy Electrical Equipment	20104020
Airlines Industrials Airlines	20302010	Electrical Components & Equipment	20104010
Shipping Energy Oil & Gas Storage & Transportation	10102040	Consumer discretionary Consumer Electronics	25201010
Industrials Marine	20303010	Materials Construction Materials	15102010



## Percentages of companies that met NZIF maturity scale criteria by impact categories and markets

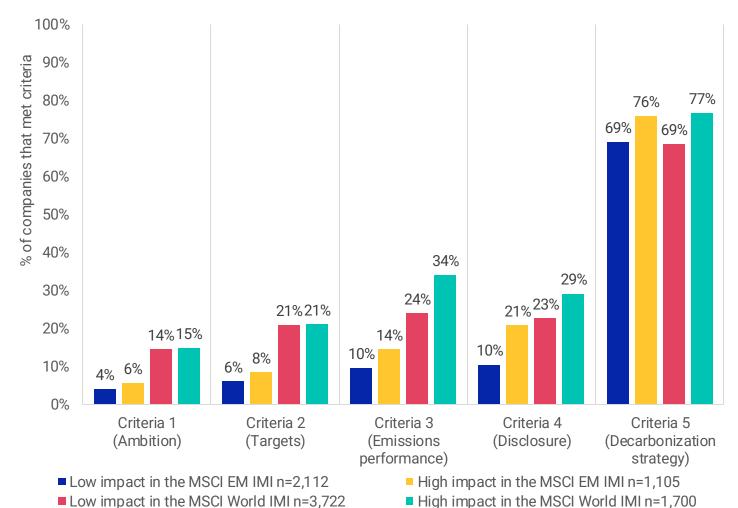
#### **Disclosure-action gap**

- Across both the MSCI World IMI and MSCI EM IMI universe, criteria 1, 2, 3 and 4 appeared harder for companies to meet than criterion 5.
- Our NZIF alignment datapoint indicated a large portion of issuers have set some type of decarbonization strategy (criterion 5)

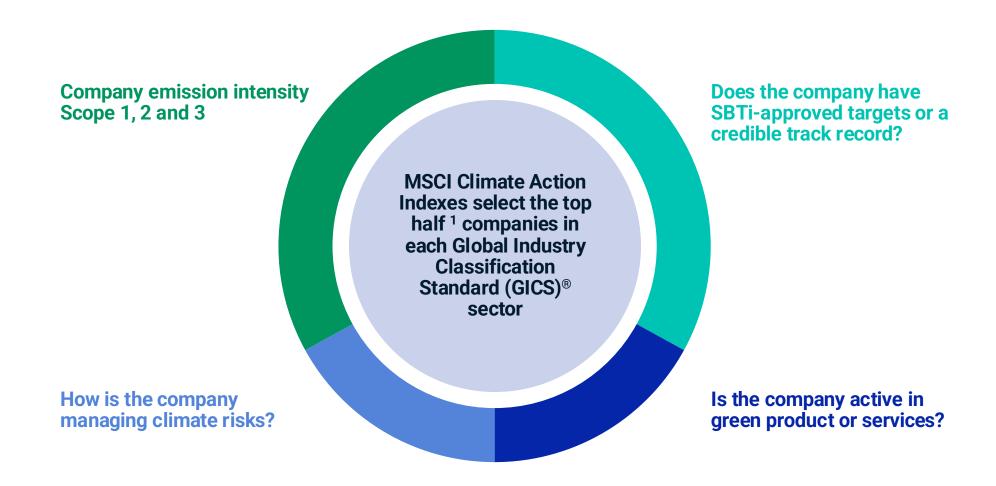
#### **Target-performance gap**

- Across all markets and sectors, criterion 3
  (emissions performance) had a higher pass
  rate than criteria 1 (ambition), 2 (short-term
  targets).
- These companies had not necessarily set both short-term and medium-term targets nor committed to ambitious long-term net-zero targets.

#### <u>Percentages of companies that met maturity scale criteria by impact categories</u> <u>and markets</u>



### Product development: How do I identify climate transition leaders/laggards?





## **MSCI Contacts – Italy**

For more details please contact:

Michela.rota@msci.com Xiaoou.ye@msci.com Ilaria.digiamberardino@msci.com



Information Classification: GENERAL 30

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## **Contact Us**

AMERICAS	EUROPE, MIDDLE EAST & AFRICA	ASIA PACIFIC			
United States +1 888 588 4567 *	South Africa + 27 21 673 0103	China + 86 21 61326611			
Canada + 1 416 687 6270	Germany + 49 69 133 859 00	Hong Kong + 852 2844 9333			
Brazil + 55 11 4040 7830	Switzerland + 41 22 817 9777	India + 91 22 6784 9160			
Mexico + 52 81 1253 4020	United Kingdom + 44 20 7618 2222	Malaysia 1800818185 *			
	Italy + 39 02 5849 0415	South Korea +82 70 4769 4231			
	France + 33 17 6769 810	Singapore +65 67011177			
		Australia +612 9033 9333			
		Taiwan 008 0112 7513*			
		Thailand 0018 0015 6207 7181*			
* = toll free msci.com/contact-us		Japan +81 3 4579 0333			

