

**Draft version for public consultation**

# **Draft 2025 Target Setting Protocol**

**U.N.-CONVENED NET-ZERO ASSET OWNER ALLIANCE**  
MONITORING REPORTING AND VERIFICATION TRACK

In partnership with:



**M2020**



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**Antitrust Disclaimer**

The Alliance and its members are committed to comply with all laws and regulations that apply to them. This includes, amongst others, antitrust laws and regulations and the restrictions on information exchange they impose.

### Note to readers

A growing number of financial institutions, including the world's largest investment managers, banks, and asset owners, are making commitments to set Paris Agreement-aligned portfolio targets. Members of the United Nations-Convened Net-Zero Asset Owner Alliance are involved in a number of these initiatives. With this report, the Alliance seeks to contribute to the next phase of target setting by global investors. The document provides details on a series of approaches, strategies and frameworks for the process of portfolio-level target setting across asset classes, sectors and investment management actions. Members of the Alliance have also made commitments to other initiatives including the UN Global Compact Business Ambition for 1.5°C, the Science Based Targets Initiative for Financial Institutions (SBTIFI), the Paris Aligned Investing Initiative (PAII) of the Institutional Investors Group on Climate Change (IIGCC) and the Investor Agenda Investor Climate Action Plans (ICAPs). The Alliance has coordinated with SBTIFI and offers compatible methodological approaches as well as builds on the comprehensive Net-Zero Investment Framework draft provided by the PAII while offering quantitative insights necessary for 5-year target setting.

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# Acronyms

<b>AFOLU</b>	Agriculture, Forestry and Other Land Use	<b>NACE</b>	Statistical Classification of Economic Activities in the European Community
<b>AO</b>	Asset owner	<b>NDC</b>	Nationally Determined Contribution
<b>AOA</b>	Asset Owner Alliance	<b>NDPE</b>	No deforestation, no peat, no exploitation policies
<b>BECCS</b>	Bioenergy with carbon capture and storage	<b>NOC</b>	National Oil Companies
<b>BICS</b>	Bloomberg Industry Classification System	<b>OECD</b>	One Earth Climate Model
<b>CDR</b>	Carbon Dioxide Removal	<b>OGCI</b>	Oil and Gas Climate Initiative
<b>CO<sub>2</sub>e</b>	Carbon Dioxide Equivalent	<b>PACTA</b>	Paris Agreement Capital Transition Assessment
<b>COP26</b>	26th United Nations Climate Change Conference of the Parties	<b>PAII</b>	Paris Aligned Investing Initiative
<b>CRREM</b>	Carbon Risk Real Estate Monitor	<b>PCAF</b>	Platform for Carbon Accounting Financials
<b>DFI</b>	Development Finance Institution	<b>PIK</b>	Potsdam Institute for Climate Impact Research
<b>EAF</b>	Electric Arc Furnace	<b>PRI</b>	Principles for Responsible Investment
<b>EBA</b>	European Banking Authority	<b>RMI</b>	Rocky Mountain Institute
<b>EDFI</b>	Association of European Development Finance Institutions	<b>RTS</b>	Regulatory Technical Standards
<b>EIOPA</b>	European Insurance and Occupational Pensions Authority	<b>sbt</b>	science-based target (not associated with a validation initiative)
<b>ESG</b>	Environmental, Social and Corporate Governance	<b>SBTI</b>	Science Based Targets Initiative
<b>ESMA</b>	European Securities and Markets Authority	<b>SBTIFI</b>	Science-Based Targets Initiative for Financial Institutions
<b>ETC</b>	Energy Transition Commission	<b>SEI</b>	Stockholm Environment Institute
<b>EV/EVIC</b>	Enterprise Value/ Enterprise Value Including Cash	<b>SRC</b>	Stockholm Resilience Centre
<b>FI</b>	Financial Institution	<b>SSA</b>	Strategic Asset Allocation
<b>GHG</b>	Greenhouse Gases	<b>TPI</b>	Transitions Pathway Initiative
<b>GICS</b>	Global Industry Classification System	<b>ULCOS</b>	Ultra-Low CO <sub>2</sub> Steelmaking
<b>IEA</b>	International Energy Agency	<b>UNEP</b>	United Nations Environment Programme
<b>IGCC</b>	Investor Group on Climate Change	<b>UNEP FI</b>	United Nations Environment Programme Finance initiative
<b>IIASA</b>	International Institute of Applied Systems Analysis	<b>UTS</b>	University of Technology Sydney
<b>IIGCC</b>	Institutional Investors Group on Climate Change	<b>WEF</b>	World Economic Forum
<b>IPCC</b>	International Panel on Climate Change	<b>WEF MPP</b>	World Economic Forum Mission Possible Platform
<b>ISF</b>	Institute for Sustainable Futures	<b>WRI</b>	World Resources Institute
<b>MRV</b>	Monitoring Reporting and Verification	<b>WWF</b>	World Wildlife Foundation

# Consultation

The Alliance 2025 Target Setting Protocol is made available to the public for one month from 13<sup>th</sup> October 2020 to 13<sup>th</sup> November 2020. During this period members of the general public, academia, government, and business are invited to comment on the Protocol and the contents covered in it.

The Alliance will hold one technical webinar on the contents of the Protocol, where the audience will have the opportunity to ask clarification questions. Please see alliance website for further details.

Consultation questions are provided at the end of each chapter. A consultation form is available at [unepfi.org/net-zero-alliance/resources/](https://unepfi.org/net-zero-alliance/resources/). Individuals or organizations responding to the consultation are invited to provide their reactions via the consultation form (online or email submission) by November 13<sup>th</sup> 2020. Please email [jessica.andrews@un.org](mailto:jessica.andrews@un.org) with any questions or comment.

# Executive Summary

The 2025 Alliance Target Setting Protocol sets out the Alliance's approach to individual members and collective target setting and reporting for the period 2020-2025. The Alliance aims to be as **transparent and as robust** as possible. Thus, this document is being circulated for public comment to solicit input and commentary prior to final publication.

Wherever possible the Alliance recommends members use **science-based** ranges, targets and methodologies, noting that data and methodological constraints persist. Members are responsible for employing the **recommended science-based criteria** outlined herein or explaining why they chose an alternative target or methodology from the range of options discussed below.

The Alliance is committed to driving **real world impact, primarily through engagement with corporates and policymakers** as well as **contributing capital required to finance the transition**. Given the complex nature of leveraging ownership and financial strategies to drive real world change, and tracking impacts of these actions, a 4-part structure for target setting is recommended.

## Scope and Coverage of the Protocol

Targets are set on the **asset owner's own Scope 3 emissions** (sometimes referred to as "portfolio emissions" or financed emissions). In addition to setting Scope 3 emissions targets, Alliance members are encouraged to set net-zero targets on their own Scope 1 and 2 emissions, as possible. The Alliance further recommends that members set targets on **Scope 1 and 2 emissions for their underlying holdings** and on **Scope 3 of underlying holdings** for 'priority sectors'<sup>1</sup> when possible as detailed in the chapter on sector-level targets. At the portfolio level Alliance members should track Scope 3 emissions but are not yet expected to set targets until data becomes more reliable.<sup>2</sup>

**Alliance commitments require Alliance members to publish interim targets every 5 years.** This reporting schedule is in line with Article 4.9 of the Paris Agreement which requires signatories to submit updated emissions reductions plans every five years.<sup>3</sup> National governments who have signed up to the Paris Agreement will communicate these updated emissions reduction plans, also known as Nationally Determined Contributions (NDCs), in 2025, 2030, 2035, 2040, 2045 and 2050.

The Alliance continues to discuss an additional -5% per annum adjustment for earlier base years and includes this proposal for review in section 4.2.1 for the purposes of this consultation. Similarly, Alliance members who join the Alliance and issue targets after 2020 would also reduce by 5% per annum from 2020 for their 2025 target.<sup>4</sup> Alliance members will report their emissions reductions targets and associated progress updates in **CO<sub>2</sub>e**.<sup>5</sup> Members are encouraged to disaggregate GHG emission data wherever possible. It is recommended that Alliance members explain and adjust for large organic and inorganic portfolio changes.

1 Identified from those with high Scope 3 emissions or otherwise large emissions contributions as Oil and Gas, Utilities, Steel, Aviation, Shipping and heavy and light duty road transport.

2 Comparisons of Scope 3 data reported by similar companies indicate the largest degree of divergence in reported emissions. See Busch, T., Johnson, M., Pioch, T. and Kopp, M. (2018) 'Consistency of Corporate Carbon Emission Data' University of Hamburg: [https://ec.europa.eu/jrc/sites/jrcsh/files/paper\\_timo\\_busch.pdf](https://ec.europa.eu/jrc/sites/jrcsh/files/paper_timo_busch.pdf).

3 UNFCCC (2015) Paris Agreement: [https://unfccc.int/files/meetings/paris\\_nov\\_2015/application/pdf/paris\\_agreement\\_english\\_.pdf](https://unfccc.int/files/meetings/paris_nov_2015/application/pdf/paris_agreement_english_.pdf)

4 This is in line with IPCC 1.5°C reductions required for 2015–2020 as well as an equitable annual share of the 2020–2025 Alliance reduction target average.

5 Greenhouse gases which contribute to climate change are CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>6</sub> and NF<sub>3</sub>. The predominant gas being Carbon Dioxide (CO<sub>2</sub>). CO<sub>2</sub> equivalent or "CO<sub>2</sub>e" means the number of metric tons of CO<sub>2</sub> emissions with the same global warming potential as one metric ton of another greenhouse gas.

Individual Alliance Member Targets		
<b>Sub-portfolio (later Portfolio) Emission Targets</b>	<ul style="list-style-type: none"> <li>-16 to -29% CO<sub>2</sub>e reduction by 2025 (per IPCC 1.5°C scenarios) on Public Equity and Corporate Debt, with the same recommended for Real Estate and/or CRREM national pathways used</li> <li>Covers Portfolio Emissions Scope 1 &amp; 2, tracking of Scope 3 encouraged</li> <li>Absolute or intensity-based reduction against 2019 base year recommended</li> <li>Phase Two: Sovereign debt to be included</li> </ul>	
<b>Sector Targets</b>	<ul style="list-style-type: none"> <li>Intensity-based reductions on AOA priority Sectors (O&amp;G, Utilities, Steel, and Transport – Aviation, Shipping, Heavy and Light Duty Road)</li> <li>Scope 3 to be included wherever possible</li> <li>Sector specific intensity KPIs recommended</li> <li>Sectoral Decarbonization Pathways top-down and bottom-up necessary to set targets</li> </ul>	
<b>Engagement Targets</b>	<ul style="list-style-type: none"> <li>Engagement with Top 20 (non-aligned) emitters or those responsible for 65% of emission in portfolio (either Direct, Collective, or via Asset Manager )</li> <li>Contribute to               <ul style="list-style-type: none"> <li>Sector - Engagement with target sectors</li> <li>Asset Manager - Each member to participate in at least one engagement with the pre-identified (largest) 4 Asset Managers</li> <li>AOA position papers</li> </ul> </li> </ul>	AOs to set action targets on Policy Maker engagement
<b>Financing Transition Targets</b>	<ul style="list-style-type: none"> <li>Report on progress on climate-positive investments</li> <li>Focus on Renewable Energy in Emerging Markets, Green Buildings, Sustainable Forests, and Hydrogen, among others</li> <li>Contribute to activities enlarging the low carbon investment universe and building solutions</li> </ul>	

**Figure 1:** The 4-part Alliance Target Protocol

**‘Sub-Portfolio’ Targets.**<sup>6</sup> Sub-portfolio targets cover asset classes where credible methodologies and sufficient data coverage exist today. Later, once full coverage is reached these will be termed simply ‘Portfolio targets’. Where sufficient data exists, Alliance members should set targets across their corporate equity, corporate debt and real estate portfolios. The Alliance **assessed the IPCC’s 1.5°C pathways**<sup>7</sup> and identified an asset class-level emissions reduction target range of -16% to -29% by 2025 (see Chapter 5 for further details). Alliance members may choose the most feasible pathway for portfolio target setting taking into account the real impact on the economy and potential divestment. Alliance members will set targets on an absolute or intensity-basis (see sub-portfolio target section for details on appropriate metrics).

**Sector Targets.** Sector targets help link portfolio-level reductions to the efficiency requirements and **real-world outcomes**. Sector targets also feed into Alliance member engagement and stewardship efforts, providing an indication of expected emissions performance from the sector that can be communicated to individual companies and industry associations. **Intensity-based, sector-specific targets** for high emitting sectors reflect the specifics of each sector, their respective energy transition trade-offs with other sectors in the global economy, and the role they are expected to play in the transition to a net-zero economy (e.g. sector specific intensities across transport sector segments, a coal phase-out pathway for power utilities). The Alliance will review emerging sector-specific pathways for inclusion as reference points in the Protocol, so long as these are compatible with carbon budgets and assumptions derived from scientific assessments.

<sup>6</sup> The Alliance will not give any recommendations or instructions to their members which precise measures need to be taken to achieve the targets as stated in this document nor will the Alliance members exchange any information on transaction basis.

<sup>7</sup> P1/P2 are two sets of pathways which relate to ‘low’ or ‘no’ overshoot of the 1.5°C target. These include minimal reliance on carbon dioxide removal technologies. This is considered ‘best available’ science. See Rogeli, J. et al (2018) ‘Mitigation Pathways Compatible with 1.5°C in the Context of Sustainable Development.’ [https://www.ipcc.ch/site/assets/uploads/sites/2/2019/02/SR15\\_Chapter2\\_Low\\_Res.pdf](https://www.ipcc.ch/site/assets/uploads/sites/2/2019/02/SR15_Chapter2_Low_Res.pdf)



**The Alliance will start with the highest emitting sectors** for both Sector specific and Engagement Targets. Alliance members will start by setting sectoral targets for:

- i. **Oil & Gas;**
- ii. **Utilities;**
- iii. **Transport** - civil aviation, shipping and road transport; and
- iv. **Steel.**

**Engagement targets.** Engagement targets track our activities and progress with individual corporates. The engagement targets provide a common and productive lever for Alliance members to drive change at the company and sector-level in the real economy. These targets are a necessary component of the target setting exercise for each Alliance member. To define their 2025 Engagement Target(s), individual Alliance members should identify either the **top 20 emitters or those responsible for 65% of their portfolio emissions which do not already have Paris-Aligned business transition commitments** and set either Direct, Collective, or Asset Manager action targets to engage the identified group of high emitting companies. The Alliance encourages members to define asset class and/or sector-level emissions targets in conjunction with engagement targets, given that engagement activities are expected to play a prominent role in achieving sub-portfolio and sector targets. Members will define their own engagement targets by selecting joint and/or individual and/or outcome-based KPI in this/these area(s) from the common KPI framework (as described in the Engagement Targets Chapter). Each member should decide whether to report on multiple engagement KPIs, while setting targets on a more limited number of KPIs.

**Financing transition targets.** "Financing Transition" targets are broad, long-term targets which contribute to the net-zero economy. This category of targets provides ample long-term contribution to the creation of a net-zero economy, not simply the decarbonization of the current economy or a specific sector. Setting financing transition targets therefore require a less quantitative approach than other targets. Reference to financing transition targets encourages Alliance members to use the resources and capabilities available to them to grow the supply side of net-zero solutions. In particular, Alliance members should explore opportunities to **support the growth of investment into Green Buildings, Renewable Energy in Emerging Markets, Sustainable Forestry and Agriculture, Hydrogen Fuel development**, among other growing market segments linked to the net-zero transition. In general, public reporting on financing transition targets will be conducted at the Alliance level via shared communications. Members are also encouraged to report individually to the public on their progress against these targets. **The Alliance will focus on enlarging the scale, pace, and geographic reach of net-zero compatible technologies.** Alliance members contribute to financing transition targets by conducting roundtables, investing in the supply side of low carbon solutions and establishing working relationships with Development Finance Institutions (DFIs) or other partners to enlarge geographical coverage of investable solutions.

**Policy engagement targets.** Policy engagement targets support all of the above efforts and addresses factors beyond the control of Alliance members. The Alliance's policy work has 3 focus areas:

- i. embedding net-zero by 2050 in the post-COVID19 economic recovery framework, **Nationally Determined Contributions (NDCs)** and national emission reduction plans;
- ii. **sector policies** to promote an accelerated energy transition; and
- iii. promotion of **mandatory climate reporting** and business transition plans at investee companies.

**Alliance recruitment target.** The Alliance recruitment target aims to achieve a minimum of 200 Alliance members or USD25 trillion in assets under management across the group in the mid-term.

The Alliance will publish an annual qualitative progress **report**, and a more detailed report on quantitative achievements every 5 years.

# 1. Introduction: asset owner contributions to global ghg reductions

## 1.1. The Alliance Commitment: What we want to achieve

The members of the Alliance have made the following commitment:

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**“The members of the Alliance commit to transitioning their investment portfolios to net-zero GHG emissions by 2050 consistent with a maximum temperature rise of 1.5°C above pre-industrial temperatures, taking into account the best available scientific knowledge including the findings of the IPCC, and regularly reporting on progress, including establishing intermediate targets every five years in line with Paris Agreement Article 4.9.**

**In order to enable members to meet their fiduciary duty to manage risks and achieve target returns, this Commitment must be embedded in a holistic ESG approach, incorporating but not limited to, climate change, and must emphasise GHG emissions reduction outcomes in the real economy.**

**Members will seek to reach this Commitment, especially through advocating for, and engaging on, corporate and industry action, as well as public policies, for a low-carbon transition of economic sectors in line with science and under consideration of associated social impacts.**

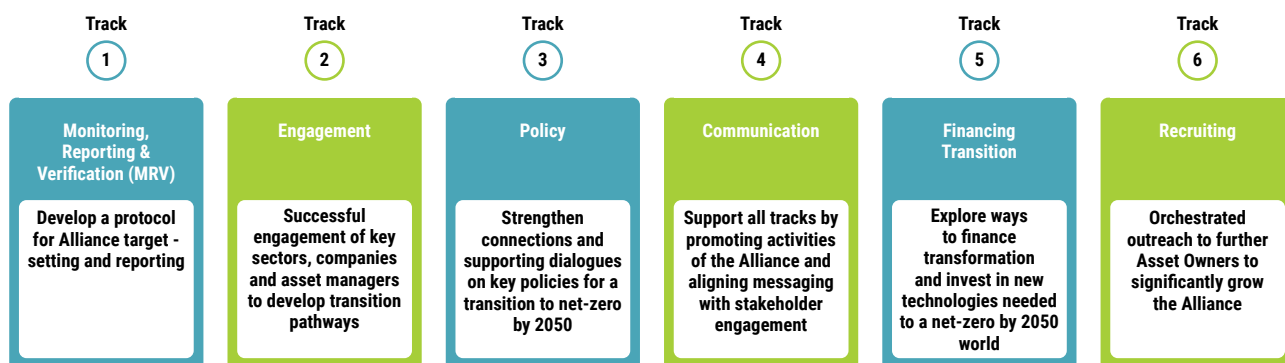
**This Commitment is made in the expectation that governments will follow through on their own commitments to ensure the objectives of the Paris Agreement are met.”**

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**Monitoring, Reporting and Verification.** In order to deliver on this commitment, the members of the Alliance must develop, issue and report against their decarbonisation targets every 5 years. The Monitoring, Reporting and Verification (MRV) track drives this effort. Members of the MRV track have reviewed large amounts of known, available scientific guidance, commissioned scientific guidance, and available methodologies<sup>8</sup> against their own portfolios. The 2025 Target Setting Protocol is the result of this process and is published on behalf of the Alliance. It sets out the Alliance’s approach to target setting and reporting on progress towards real world emissions reductions in line with established science.

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<sup>8</sup> SBTi, PCAF, IIGCC PAI, CRREM, 2dii, were each explored.



**Figure 2:** The 6 Alliance work tracks

## 1.2. Approach to 2025 Target Setting

**The Alliance is committed to supporting the real economy in its transition to a net-zero world while being guided by science.** A range of scientific, academic, and technical experts are engaged in and contribute to the Alliance's work. This report was produced by the technical leads within the Alliance membership with input from our global networks.

The Alliance's work provides **science-based recommendations for portfolio alignment with net-zero targets. Alliance members should set targets based on recommendations outlined in the Protocol and should explain any necessary deviations.** Despite the firm root in science, scaling down global climate, energy, or economic models to the level of a portfolio or economic sector is riddled with challenges. Therefore, while a science-based recommendation may be an appropriate guidepost for the average asset owner, the composition, structure, and investment opportunities of a given asset owner vary significantly.

## 1.3. Objective of this Protocol

The publication of the Protocol sets out to address two objectives:

1. Maximise the impact of *communication with external audiences*. The Alliance aims to be reliably transparent and proactive in explaining our role, views and how we are addressing key issues and limitations of portfolio decarbonisation beyond our control. Our open approach to communication also means that we seek to learn from and build on external feedback received through public consultation.
2. Develop a *shared internal 'playbook'*. The Alliance playbook will help to guide and support Alliance members to develop and articulate a common position on how our Alliance-wide approach can be best implemented.

## 1.4. Transparent, and Unique Targets best suited to Encourage Real World Reductions

Each Alliance member is unique and may identify unique levers that exist within their institutions for accelerating decarbonisation in the real world. They also possess differences in investment scope, strategies, internal governance structures, current exposure to certain high-emitting sectors etc. This Protocol was constructed to allow Alliance members to employ the combination of approaches that best supports their unique decarbonisation and engagement strategies. In this way the Alliance members aim to have "*transparent, and unique*" targets, which suit individual institutions, but which can also be aggregated and against which progress can be tracked.

## 1.5. How we operate (Alliance Governance)

The Alliance is convened by the United Nations Environment Programme Finance Initiative (UNEP FI) and the UN-backed Principles for Responsible Investment (PRI). It is supported and advised by Mission 2020 and WWF. To join the Alliance, asset owner CEOs make a public commitment to align their portfolios and engage in the Alliance. A Steering Group made up of the 7 founding asset owner

members of the Alliance guides the strategic direction of the organisation. The Steering Group meets quarterly and, with secretariat members UNEP FI and PRI,<sup>9</sup> have voting rights to determine the group's strategic direction. It is chaired by one C-suite member. Strategic content reviewed by the Steering Group is submitted by the 'tracks' which are Working Groups comprised of staff from all Alliance members. Any Alliance staff member, regardless of their steering group status, can take up a leadership or content development role on one or several of the 'tracks' or working groups including the chair role, as well as propose additional work areas. The content developed by these colleagues is then submitted to the Steering Group for review, discussion and approval.

The Monitoring, Reporting and Verification (MRV) track is co-chaired by three (3) Alliance member representatives, with sub-track working groups providing support on various aspects of content. Overall, over 25 asset owner organisations and over 100 members of their staff, several external experts, and parallel initiatives have contributed to the design of the guidance contained in this document.

The Alliance Steering Group approved the 2025 Target Setting Protocol for public consultation in October 2020. Approval by the Alliance Steering Group means that the methods, argumentation and standpoints are commonly accepted by the Alliance and that the published document represents views that the Alliance is ready to engage with as an organisation. Adjustments and edits will be made following external expert and public input received during the consultation period. The Alliance will then launch the final 2025 Protocol, followed by the publication of individual targets by members.

Members are expected to issue individual targets according to the Protocol within 12 months of joining the Alliance, unless a reporting period is less than 3 months away. The maximum time window between joining Alliance and issuing a target is 15 months. In setting a decarbonisation target, Alliance members are strongly encouraged to follow the scientific recommendations outlined in the Protocol. They are also encouraged to be ever more ambitious in their individual targets (i.e. setting sectoral targets on additional sectors beyond those identified at present as Alliance priority sectors).

## 1.6. Collaborating Initiatives

The Alliance aims to be a collaborative platform. It seeks to fill a gap connecting investor ambition and investor action on the global net-zero emissions target set in the Paris Agreement. It is not a developer of methodologies, a target validation initiative or an engagement facilitation network. Instead, the Alliance aims to link such initiatives and be grounded in the credibility of each Alliance member commitment to net-zero. With these public commitments, Alliance members hope to raise the level of ambition for action to transform the real economy. To amplify the impact of our work, we collaborate with the following initiatives:

### 1.6.1. Race to Zero COP26 Campaign and the Climate Ambition Alliance launched at COP25

In December 2019, at COP 25, the Alliance became a founding member of the Climate Ambition Alliance. The Climate Ambition Alliance includes investors, companies, banks, cities and regions committed to achieving net-zero emissions by 2050 at the latest.

In June 2020, the COP26 presidency launched the Race to Zero Campaign which supports all non-state actors to issue net-zero targets. The Alliance collaborated on the design of Race to Zero's minimum criteria for net-zero targets and is a part of the Race to Zero Campaign through its membership in the Climate Ambition Alliance.

### 1.6.2. Science-Based Targets Initiative for Financial Institutions

The Alliance and the Science-Based Targets Initiative for Financial Institutions (SBTIFI) entered into a working collaboration in June 2020. SBTIFI, underpinned by the Partnership for Carbon Accounting Financials (PCAF) methodology, supports the validation of financial institution climate targets. The Alliance and the SBTIFI will collaborate to:

- i. understand the available methodologies for financial institutions in target setting;
- ii. align their frameworks/Protocol; and
- iii. collaborate on 1.5°C pathways required for investors.

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<sup>9</sup> Limitations apply.



The Alliance and SBTIFI share a mutual subset of members. SBTIFI and the Alliance agree to ensure that the work required by both initiatives is aligned and that efforts are harmonized to enable asset owners and other investors to engage productively with the two initiatives.

### **1.6.3. Partnership for Carbon Accounting Financials (PCAF)**

The Alliance and PCAF entered into a working arrangement in September 2020. PCAF is working to establish a carbon accounting standard for loan and investment portfolios.<sup>10</sup> Measuring and disclosing the GHG emissions associated with the lending and investment activities of financial institutions is foundational to creating transparency and accountability and to enabling financial institutions to align their portfolios with the Paris Agreement. PCAF methodologies underpin SBTIFI approaches. The Alliance has concluded a working arrangement with PCAF to work together collaboratively to develop new methodologies, such as on sovereign debt, as part of the MRV track.

### **1.6.4. IIGCC's Paris Aligned Investing Initiative**

IIGCC's Paris Aligned Investing Initiative (PAII) brings together asset owners and asset managers to explore methodologies and approaches for aligning investment strategies and portfolios for aligning financial systems with the Paris Agreement. IIGCC was invited to the Inaugural MRV track workshop in February 2020 and has made a presentation of its work to the Alliance. Several members are contributing to both initiatives. The Alliance considered IIGCC's PAII Net Zero Investment Framework in preparation of the Protocol and is utilising outcomes from the PAII project as the foundation of the work outlined in this document. The Alliance has also submitted a shared response to the IIGCC consultation. There is a common understanding of the levers which investors have at their disposal to accelerate collective efforts to limit global warming to 1.5 degrees. The scope of the PAII is somewhat broader and accommodates a range of asset owner and asset manager characteristics. The Alliance proposes more specific target setting guidelines building on the PAII approach.

### **1.6.5. 2dii's Evidence for Impact**

The 2 Degrees Investing Initiative (2dii) Evidence for Impact initiative aims to support the Alliance and offer criteria and tools for tracking the impact of investor decarbonisation efforts in the real economy. By signing up to the Alliance, investors indicate their willingness to trial the EU Horizon 2020 InvECAT tool, a tool measuring impact and designed in partnership with 2dii. 2dii has also initiated a working group to further develop a climate impact measurement tool of which several Alliance members are a part.

### **1.6.6. The Climate Science Community (PIK, IIASA, UTS/ISF, others)**

In order to be able to set sector targets, the Alliance required sector pathways from the scientific community that could be readily applied in the investment decision making process. This meant that climate models needed to be translated into the sector classification schemes commonly used by asset owners, including MSCI's Global Industry Classification system (GICs), the Bloomberg Industry Classification System (BICS) and others. This process required several months of detailed dialogues with the Potsdam Institute for Climate Impact Research (PIK) International Institute of Applied Systems Analysis (IIASA), Stockholm Resilience Centre (SRC), Stockholm Environment Institute (SEI), World Economic Forum Missions Possible Platform (WEF MPP) and the Energy Transition Commission (ETC), Rocky Mountain Institute (RMI), World Resources Institute (WRI), Transition Pathway Initiative (TPI), Exponential Roadmap authors, private consultancies, COP26 sector teams and others. These dialogues identified the One Earth Climate Model (OECM) as the most effective and readily available tool for establishing such pathways. The University of Technology Sydney Institute for Sustainable Futures (UTS/ISF), the OECM model developer, with reviews from SBT/PIK/RMI/ SRC/ ETC/WWF/WRI/ Expo Roadmap, and COP26 sector teams engaged in an effort to adjust the model outputs into financial sector classification schemes. Cambridge Econometrics, and the Investor Leadership Network (ILN)'s 1.5°C model and the IEA's 'Well Below 2 Degrees' models were also included as comparators in this analysis.

<sup>10</sup> <https://carbonaccountingfinancials.com/about#our-mission>

### 1.6.7. Climate Action 100+

Climate Action 100+ (CA100+) launched in December 2017. Delivered through the 5 regional partner organisations PRI, AIGCC, IGCC, IIGCC, and CERES, CA100+ is an investor initiative aiming to ensure the world's largest corporate greenhouse gas emitters take necessary action on climate change. Nearly 500 investors with over \$47 trillion in AUM are engaging 160+<sup>11</sup> companies to request the companies to: reduce emissions in line with Paris Agreement targets; improve governance and strengthen climate-related financial disclosures in line with TCFD recommendations. The target companies include 100 'systemically important emitters', accounting for two-thirds of annual global industrial GHG emissions, alongside more than 60 others with significant opportunity to drive the clean energy transition.

The Alliance is working to partner with CA100+ to support the net-zero focus, collaborate on sector specific decarbonisation pathways, and support collective investor action. Collaborative engagement enhances investor influence, builds expertise, and improves efficiency of the engagement process by sharing the workload, so the Alliance recommends its members join the CA100+ group.

### 1.6.8. WEF Mission Possible Platform (and its partners)

The World Economic Forum through its Mission Possible Platform has demonstrated that net-zero is possible for the so called 'hard to abate' sectors. Mission Possible has organised corporate leaders into 'industry groups' which are exploring sector pathways to net-zero supported by the Energy Transition Commission (ETC) and Rocky Mountain Institute (RMI). In February 2020, the Alliance engaged the platform and its contributing partners. The Alliance is working to align our sector pathway reduction outcomes and engagement efforts with companies and bottom up analysis with the WEF's real economy industry working groups.

### 1.6.9. Task Force on Climate-Related Financial Disclosure Secretariat (TCFD)

The Task Force on Climate-related Financial Disclosures (TCFD) recommendations are designed to solicit consistent, decision-useful, forward-looking information on the material financial impacts of climate-related risks and opportunities, including those related to the global transition to a lower-carbon economy. They are adoptable by all organisations with public debt or equity in G20 jurisdictions for use in mainstream financial filings. The TCFD is also exploring a 'Temperature Alignment' metric and tool. The Alliance supports this objective and has set out a supportive call to Methodological Providers to begin to develop tools to address gaps which exist in emissions and temperature assessments to date.<sup>12</sup> TCFD also provides guidance on climate scenario analysis, including guidance to draw on a range of scenarios. Further, the PRI's reporting framework has climate indicators incorporating TCFD and the Alliance is co-ordinating on PRI reporting.

### 1.6.10. COP 26 Private Finance Hub

In February 2020, the COP26 team together with the UN Special Envoy for Climate Action and Finance and Advisor to the UK Prime Minister, Mark Carney, launched the "Private Finance" agenda. The Alliance has remained in contact with the Private Finance Hub to engage on methodological developments and support the Hub's effort to guide private sector finance towards net-zero commitments.

### 1.6.11. PRI's Inevitable Policy Response (IPR) and Others

The Alliance has engaged with many other related initiatives such as the PRI's IPR which can provide Policy related scenario intelligence to Alliance members, as well as too numerous to list in this document, including NGOs, regulators and data service providers in order to drive change. We invite all interested organisations to contact us to discuss impactful collaboration opportunities.

<sup>11</sup> As of September 2020.

<sup>12</sup> Alliance Call for Comment issued April 2020. <https://www.unepfi.org/net-zero-alliance-call-for-comment-alliance-methodological-criteria/>

## 2. Theory of Change: our potential management actions

Asset owners have a unique role to play in today's financial landscape. They have long-term horizons and invest across a wide range of asset classes and sectors. As such, they are acutely vulnerable to the systemic disruptions that climate change will cause in ecosystems, societies and economies. They also have a key role to play in catalysing decarbonisation of the real economy as well as in boosting climate-resilience and accelerating the energy transition by providing the capital necessary for business transformation.

The five years since COP21 have seen an unprecedented surge in investor concern over the need for accelerated climate action. Partly in response to investor pressure, climate targets have begun to appear in regulatory frameworks, public policy, corporate reporting and the various other spheres of influence that investors have at their disposal including via their portfolio construction and individual company-level investment decisions.

The number of climate-related pledges and targets in the investment industry has increased and the concept of aligning investment portfolios with a 1.5°C decarbonisation trajectory has gained significant interest and attention. Investors, data providers, academia and other stakeholders are focusing their efforts on how this can be achieved and measured, as well as on the strategies and mechanisms best suited to balancing risks and opportunities associated with the energy transition.

### 2.1. Investor impact

In general, investors do not have direct impacts on environmental, social or governance (ESG) parameters applied in the day-to-day running of investee companies. Instead, they have an impact on companies' access to capital, and can influence the management of assets they invest in or finance, which in turn have a direct impact on these parameters in the real economy. Hence, investor impact can be described as the impact an investor's activity has on a company's activity, project or asset which in turns leads to measurable outcomes in the real world.

Kölbel, Heeb et al (2019) describe three mechanisms that investors can use to impact companies; *engagement*, *capital allocation*, and *indirect impacts*. These mechanisms can impact company activities in two ways, either by changing the *level* of the company activity or by changing the *quality* of the company activity. The latter relates to improving the ESG performance of a company's activity whereas the former relates to increasing the net positive impacts a company's activities have in the real world.

Caldecott (2020) argues that in order for a financial service or product to make a difference to the real economy transition to environmental sustainability the activity must, among other things, make a clear and measurable difference by either enabling company adoption of sustainable practices, or reducing or increasing the cost of capital for green or polluting activities.

The important role of institutional investors and financial markets in limiting global warming is widely recognised. Article 2.1c in the Paris Agreement commits all signatories to; "*Making financial flows consistent with a pathway towards low greenhouse gas emissions and climate resilient development*". Achieving the commitment set out in Article 2.1c would require allocating capital differently across the economy and also driving change in individual company behaviours.

## Mechanisms and strategies available to investors

**There is currently limited empirical evidence showing how investor climate pledges, strategies and actions contribute to emission reductions in the real economy.** This is partly due to methodological uncertainty. There are several mechanisms and strategies available for investors wanting to reduce the emissions intensity or absolute emissions profile of their investment portfolios. It is, however, important to understand the difference between reducing emissions in an investment portfolio and reducing emissions in the real economy. While all these mechanisms and strategies may contribute to lowering investment risks, meeting customer demands or supporting climate targets, they do not contribute equally to lowering emissions in the real economy.

Lütkehemöller et al (2020) identify, based on existing literature, the following factors that influence the likelihood of creating impact: the level of control over the investee company, reaching critical mass by investors coming together, the size and recognition of the investor taking action, how easily an investor's action can be offset by other investors, the cost for the company of the requested reform by the investor, the investee's previous experience with ESG issues and its reputational concerns, and finally, how liquid the market is. The Alliance seeks to draw on the most effective strategies to enable change and to benchmark progress to show the global investment community how investors can drive real world emissions reductions.

### 2.1.1. Engagement

Company engagement is a structured non-public dialogue with a company with the intention to improve the company's ESG practices and to support its transition to low carbon and net-zero business strategies. Engagement is possible as a shareholder as well as a bondholder and may include submitting shareholder resolutions and voting at AGMs. Engagement may directly lead to a company changing its behaviour and is a powerful tool for investors to achieve real world impact. It is the mechanism through which the impact on real world emissions is most likely to materialise.

Engagement is the mechanism where the most empirical evidence can be found to prove its effectiveness. Kölbel, Heeb et al (2019) list five different empirical studies that analyse the extent to which companies comply with shareholder engagement requests. Results from all of these studies show a success rate between 18-60% depending on the approach taken and data used. More importantly, these studies list three important factors that may influence the success of an engagement: the cost of the requested change for the target company, the degree of investor influence and the company's level of ESG experience. These findings corroborate what other studies have found and investor experience to date.

Meaningful engagement efforts require significant resources and perseverance from the investor as it can take several years to achieve the intended outcome. Given this consideration, and that the success of an engagement largely depends on the level of control the investors have over the investee company, a positive change is more likely if investors come together in collaborative engagement efforts. Collaborative initiatives such as Climate Action 100+ have shown progress in recent years resulting in significantly improved climate-related pledges and strategies from targeted companies.

Engagement is not limited to investee companies. It can also be pursued in other asset classes and towards different stakeholders. Engaging with tenants is an important part of a decarbonisation strategy for investors with direct real estate holdings in order to drive emission reductions from a whole building or neighbourhood perspective. Engagement can also focus on sectors and on policy advocacy to drive broader change in the real economy. For asset owners, engagement with asset managers is important to drive change across the investment value chain. In this type of asset owner-led engagement, agency problems may arise, where the incentives and actions of the agents—the asset managers—do not align perfectly with the interests of the asset owner. For example, Bebchuk et al. (2017) suggest that in relation to investor stewardship *“investment managers can be expected to underutilise the tools they have to engage with corporations”*. This tendency reinforces the importance of an asset owner-based theory of change, asset owner led engagement with corporations, and asset owner led engagement with asset managers.



### 2.1.2. Capital allocation strategies

The primary focus of capital allocation strategies is to re-allocate capital between companies, sectors and asset classes based on certain restrictions and parameters linked to climate targets.

#### Divestments

Divestment is when an investor divests from a company or sector due to its specific characteristics, most often as the company's business model or the whole sector is not aligned with the values or targets of the investor. It can also be a last resort in an engagement strategy where the requested change has not materialised. Divestment can be applied to several asset classes but is generally most applicable to listed equities and bonds.

Although widely adopted by investors, divestment is critiqued as an abdication of stewardship responsibilities. Divestment limits the opportunity to impact positively on company behaviours and, critics argue, does not lead to measurable outcomes in the real economy. Advocates often argue that divestment strategies can increase the cost of capital, lower the market value of targeted companies and contribute to stigmatisation of companies and sectors with poor ESG practices or unsustainable business models which can incentivise companies to change behaviour. Although such indirect impacts on corporate conduct and the cost of capital possible in theory, there is currently limited empirical evidence to support a divestment beyond coal and distressed segments of the oil and gas sector.

Even though indirect impacts such as stigmatisation have weak empirical evidence, several studies show that using these approaches can impact asset prices and incentivise companies to improve their ESG practices. For example, Cojoianu et al (2019) find that cumulative oil and gas divestment pledges (not limited to investor pledges) in a country are negatively related to new capital flows to oil and gas companies. However, the size and likelihood of the change to materialise seems to be strongly dependent on reaching a critical mass of investors applying the same divestment strategy, how easily the action can be offset by other investors and the company's cost to improve their ESG practices – the higher the cost to improve the less likely it is to happen. Lütkehemöller et al (2020) argue that divestment is more likely to create a larger impact in less liquid private markets and in the corporate lending market.

Investors wanting to contribute to emission reductions in the real economy could conduct selective divestments as part of their engagement strategy or as part of a broader strategy where the contribution to the real economy comes from how the proceeds from the divestment is used. If the proceeds are used in such a way that they contribute to a change in the financing cost or liquidity for activities considered to yield positive impacts on the real economy it could be argued that a divestment strategy can contribute to real world change.<sup>13</sup>

#### Sector weighting and best-in-class strategies

Sector weighting and best-in-class strategies can take different forms and shapes but normally relates to re-allocating capital within or between sectors based on companies' ESG and climate performance. In a broader application these considerations could be extended to the asset class level and be part of the investor's strategic asset allocation (SAA).<sup>14</sup>

Understanding a company's performance relative to its peers in the same sector allows an investor to identify the most 'carbon efficient' companies and re-allocate capital from the worst to the best performers. The likelihood of such strategies contributing to emission reductions in the real economy remains uncertain as the empirical evidence is limited. The rationale is similar to other capital alignment approaches where the argument is that these 'best-in-class' leaders would enjoy a lower cost of capital and higher market values as they are recognised for their positive contribution to climate targets, and in reducing climate value at risk, by a growing group of investors. Poor performers would meanwhile see their cost of capital increase and market values decrease, and hence be incentivised to improve their ESG performance.

The likelihood of these strategies contributing to measurable impacts in the real economy depends on the proportion of investors applying the same strategy (i.e. achieving critical mass) and the cost for the company to implement the necessary reforms to improve their performance.

<sup>13</sup> Over 1,200 institutions with USD 14 trillion in AUM have joined the Divest/Invest initiative. The Alliance welcomes greater collaboration with Divest/Invest committed institutions. <https://www.divestinvest.org/>

<sup>14</sup> Strategic asset allocation is a portfolio strategy whereby the investor sets target allocations for various asset classes and rebalances the portfolio periodically. The target allocations are based on factors such as the investor's risk tolerance, time horizon, and investment objectives.

## Investing in climate solutions

Decarbonising existing industries is not enough to limit global warming to 1.5°C and reach net-zero around 2050. Significant investments into climate solutions are required and will also be a prerequisite for certain industries to decarbonise. Climate solutions are investments in economic activities that contribute substantially to climate change mitigation. These are solutions that reduce greenhouse gases by avoiding emissions and/or by sequestering carbon dioxide already in the atmosphere., or investments in climate change adaptation that contributes to enhancing adaptive capacity, strengthens resilience and reduces vulnerability to climate change.

The impact rationale is that increasing investments into climate solutions could contribute to improving the liquidity and lowering the cost of capital for green activities. Whether this holds in practice depends on several factors. For example, investors are more likely to reduce real economy emissions if they target companies that are already constrained in their growth prospects by external market conditions such as access to financing (Köbel, Heeb et al, 2019).

Investors can also contribute to a broader change by collaborating with actors across the whole financial value chain to enhance the supply side of finance into climate solutions, increase liquidity and lower financing costs across sectors through systemic change.

## 2.2. The Alliance commitment and our work to contribute to real world outcomes

The net-zero commitment made by each member of the Alliance has several distinguishing features, including a strong emphasis on emissions reductions in the real economy. Transformation in the real economy is a must if we are to reach the ambitions set in the Paris Agreement. Holding a large proportion of low-carbon assets or divesting out of high-emitting ones will not be enough. As members of the Alliance we have come together not only in an effort to reduce emissions from our investment portfolios but also to ensure that these efforts lead to measurable outcomes in the real economy, which would also contribute to lower investment risks and create new investment opportunities.

Although impressive progress has been made in recent years, translating complex climate models into investment portfolios is not straight forward. The limited availability of reliable data is a key issue which provides for asymmetrical information and challenges for investment decision making. The significant increase in climate risk mitigation strategies, regulatory measures and disclosure requirements are all important and contribute to a better understanding of the financial stability. However, relying on these measures to actively contribute to emission reductions in the real economy is, as described in the previous sections, highly uncertain and the empirical evidence is limited. That does not mean that these measures are not worthwhile or necessary. Investors have other objectives and restrictions to consider that goes beyond real world impact. All strategies and mechanisms asset owners have available (engagement, divestments, investing in climate solutions etc.) will contribute to improving the long-term risk-return characteristics of the portfolio.

Each Alliance member has its own unique characteristics which must be carefully considered. Asset and liability management (ALM) constraints, regulation, market conditions, risk-return appetite and investment objectives all differ between members and regions. This will impact how investment portfolios can be changed and which strategies and mechanisms that can be implemented.

It is not the role of the Alliance to set descriptive restrictions or control the strategies deployed by each member to contribute to the overall objectives. Instead, each member selects the strategies and uses the mechanisms that, based on their own unique circumstances, will contribute to the commitment and objectives of the asset owner. Transparent reporting will become important and members must be able to argue for how their strategies which reduce portfolio emissions also contribute to real world impact, even though the impact and evidence may still be difficult to measure or disclose.

We acknowledge that significant issues, limitations and constraints exist and that we don't have all the answers to these. But it's our belief that progression is more important than perfection and that we cannot wait. We need to start taking action now, despite the limitations. As methodologies and data availability improve, we will refine and adjust our strategies.

**Consultation Questions:**

1. Do you agree with the role of the asset owner as described above? Please offer any additional suggestions on action points an asset owner should consider taking when contributing to the net-zero transition.

# 3. Scope covered by the 2025 target setting protocol

## 3.1. Four-part targets to contribute to GHG emissions reductions most effectively

As described in the sections above, reducing GHG emissions in a global, diversified investment portfolio is a complex challenge – no simple solution exists.

The members of the Alliance MRV track reviewed a large number of known and available methodologies for target setting.<sup>15</sup> While several approaches exist, no single stand-alone methodology was determined to be suitable to drive GHG emission reductions in the real economy on a long-term basis. Furthermore, it is generally thought that a multi-faceted approach is likely to be more successful in addressing a challenge as complex as the energy transition.

Given this background, the Alliance decided on a 4-part approach in the 2025 Target Setting Protocol. The implementation of each part will have a particular impact on investee companies and emissions. When combined, the four parts enable an asset owner to contribute to the desired transformation towards a net-zero economy. Implementing all 4 parts of the Protocol will have the greatest impact. Alliance members are recommended to set targets on all 4 parts. The minimum expectation is that Alliance members will set targets on three.

The 2025 Target Setting Protocol consists of 4-parts:

Individual Alliance Member Targets	
<b>Sub-portfolio (later Portfolio) Emission Targets</b>	<ul style="list-style-type: none"><li>▪ -16% to -29% CO<sub>2</sub>e reduction by 2025 (per IPCC 1.5°C scenarios) on Public Equity and Corporate Debt, with the same recommended for Real Estate and/or CRREM national pathways used</li><li>▪ Covers Portfolio Emissions Scope 1 &amp; 2, tracking of Scope 3 encouraged</li><li>▪ Absolute or intensity-based reduction against 2019 base year recommended</li><li>▪ Phase Two: Sovereign debt to be included</li></ul>
<b>Sector Targets</b>	<ul style="list-style-type: none"><li>▪ Intensity-based reductions on AOA priority Sectors (O&amp;G, Utilities, Steel, and Transport – Aviation, Shipping, Heavy and Light Duty Road)</li><li>▪ Scope 3 to be included wherever possible</li><li>▪ Sector specific intensity KPIs recommended</li><li>▪ Sectoral Decarbonization Pathways top-down and bottom-up necessary to set targets</li></ul>

<sup>15</sup> Alliance Methodological Criteria Call to Comment; <https://www.unepfi.org/net-zero-alliance-call-for-comment-alliance-methodological-criteria/>



<b>Engagement Targets</b>	<ul style="list-style-type: none"> <li>■ Engagement with Top 20 (non-aligned) emitters or those responsible for 65% of emission in portfolio (either Direct, Collective, or via Asset Manager )</li> <li>■ Contribute to <ul style="list-style-type: none"> <li>□ Sector - Engagement with target sectors</li> <li>□ Asset Manager - Each member to participate in at least one engagement with the pre-identified (largest) 4 Asset Managers</li> <li>□ AOA position papers</li> </ul> </li> </ul>	AOs to set action targets on Policy Maker engagement
<b>Financing Transition Targets</b>	<ul style="list-style-type: none"> <li>■ Report on progress on climate-positive investments</li> <li>■ Focus on Renewable Energy in Emerging Markets, Green Buildings, Sustainable Forests, and Hydrogen, among others</li> <li>■ Contribute to activities enlarging the low carbon investment universe and building solutions</li> </ul>	

**(T1) Targets at the Sub-Portfolio level** will develop into an overarching “portfolio target”<sup>16</sup> when sufficient coverage is reached. This target draws a ring fence around all emissions in an Alliance member’s portfolio (for which there are currently existing assessment methodologies) and ensures emissions reductions over time across the portfolio. Because portfolio targets can be achieved through reallocation<sup>17</sup> the following 3 additional sets of targets increase the likelihood that emissions reductions are achieved in the real economy.

**(T2) Specific sector targets** on high emitting sectors reflect the specifics of these sectors, their trade-offs with other sectors in the global economy, and the role they play in the transition to a net-zero economy. Sector targets anchor investors’ portfolio emissions reductions requirements to emissions reductions requirements in the highest emitting sectors of the real economy. Sector targets define Alliance members’ climate risk appetite in sector exposures. These targets also help limit exposure to stranded assets and direct capital towards climate change leaders within a sector. Additionally, sector-level emissions targets clearly define a shared expectation on the pace of business transformation across a similarly situated group of companies.

**(T3) Engagement targets** are incorporated into our dialogues with companies, sector organisations and asset managers as well as policy makers. Engagement targets support the Alliance’s theory of change, which is to use the power of collective ownership to encourage real economy actors in high emitting sectors to reduce their emissions. Pooling engagement forces, resources, and capacity enables the building of a coherent and persuasive voice of shareholder and bondholder capital. Companies position themselves relative to their peers, customers and supply chains, so the Alliance engages with an entire sector and sector-specific value chains to support companies in their business transition efforts. As a result of the importance placed on engagement, **the Alliance requires all members to set engagement targets.**

**(T4) “Financing transition”**, allocates the capital required to transition to net-zero. Financing for the transition includes investment in the supply side of “net-zero solutions”. Members of the Alliance are willing to provide capital for the transition but members also fear an increasing price bubble on these assets. Thus, the Alliance aims to increase the supply side of low carbon assets. The available options are numerous, and include exponential technologies in renewables, hydrogen, energy storage systems, carbon capture solutions as well as near zero emission buildings. The financing target leverages the financial might of asset owners to de-risk and finance the technologies and research and development that will accelerate the net-zero economy transition.

<sup>16</sup> The sub-portfolio targets will become an overarching portfolio target whenever Alliance methodologies cover a sufficient proportion of asset classes within the portfolio (see sub-portfolio target setting on a concrete planning on asset class coverage).

<sup>17</sup> Reallocation can occur either through removing the equity from the investor’s portfolio, or through the sale of heavy emitting assets from one portfolio company to another, thereby removing the asset from an investor’s portfolio while the equity remains.

## 3.2. Portfolio Covered by Commitment

Alliance members detailed in a Guidance document issued September 2019 that the Alliance commitment should cover “*all assets under management (and on balance sheet) managed by the asset owner while exercising asset allocation in fiduciary duty*”, this includes:

- inhouse managed money;
- third party managed money (e.g. ETFs, mutual funds, active/passive);
- shareholder money; and
- policyholder money (in cases where the asset allocation is carried out by the asset owner).

but excludes:

- money managed by group owned asset managers for third party clients. This is not considered asset owner money as it does not appear on the balance sheet of the asset owner. The Alliance still recommends that members engage third party investment partners in discussion on net-zero ambitions and associated target setting.<sup>18</sup>

## 3.3. Asset classes covered in the Protocol

**For the period 2020–2025, Alliance members cover listed corporate equity and publicly traded corporate debt and real estate holdings, adding additional asset classes as these become available**

The Protocol requires members to cover certain asset classes wherever methodologies and data are available. Asset class coverage will grow over time. Each Alliance member can define a larger scope for coverage if the member feels comfortable to set targets on this wider scope. The roll-out to further asset classes will depend on several criteria: data availability, data transparency & accuracy as well as established methodologies.

Alliance members identify the following main asset classes across member portfolios:

Asset Class	Coverage
Listed Equity	2020-2025 Protocol, issued 2020
Publicly traded Corporate Debt	2020-2025 Protocol, issued 2020
Real Estate (equity)	2020-2025 Protocol, issued 2020
Infrastructure incl. Renewables (equity)	2020-2025 Protocol, issued 2021
Sovereigns, Sub-Sovereigns & Multinationals	2020-2025 Protocol, issued 2021 <sup>19</sup>
Private Equity	As methodologies & data availability develop
Unlisted (private) Corporate debt	As methodologies & data availability develop <sup>20</sup>
Mortgages	As methodologies & data availability develop
Covered bonds	As methodologies & data availability develop
Other	

<sup>18</sup> Alliance members may include unit linked products when they retain full investment discretion for these products.

<sup>19</sup> The Alliance also seeks to align and build on the efforts of the IIGCC PAII Framework which discusses Sovereigns.

<sup>20</sup> PACTA methodologies have been presented as potentially suitable and will be explored in next phase for applicability.

The long-term target is to develop methodologies for target setting in most asset classes listed above. Sub-portfolio targets will be referred to as simply 'portfolio targets' when available methodologies and data cover >85% of assets. While the methodology for listed/ publicly traded versus unlisted (private) equity and corporate debt should be consistent, the Alliance decided to start with publicly traded companies. The reason for starting with publicly traded companies is that data is more readily available than for unlisted assets. Data for the real estate sector are also considered robust enough to enable target setting, although comprehensive efforts will be required by members to gather relevant tenant-owned emission data.

Alliance members have agreed that Sovereign Debt and Infrastructure constitute the next priority asset classes to be covered by the Protocol created by the end of 2021.

### 3.4. Temperature alignment methods

The Alliance sees large potential in temperature alignment methods to incorporate systematically forward-looking data. As these methodologies are still evolving and there is no recognised global standard, it is too early to set temperature-related targets. The Alliance expressed the need for better and more aligned methods in a spring 2020 Call for Comment.<sup>21</sup> As these methodologies develop, we will consider when it could become appropriate to include them in our target setting Protocol. Until that time, the Alliance will rely, when helpful, on temperature scoring methodologies to identify portfolio leaders and laggards.

### 3.5. Portfolio Company Alignment Methods (e.g. CA100+ Benchmarking)

The Alliance recognizes draft and forthcoming work such as TPI, PAII corporate criteria and CA100+ corporate benchmarking as useful methodologies. It also appreciates the sectoral decarbonization work of the SBTi initiative which can support the sectoral target setting of the Alliance and looks forward to available net-zero and 1.5°C sector decarbonization metrics. However, it views the progress to date and futures advancements as highly relevant to sectoral target setting, which the Alliance advocates for. The Alliance looks forward to collaborating with these initiatives on further development of the approaches.

#### Consultation Questions:

2. Are you aware of alignment methodologies for the asset classes listed above which are not already identified in this chapter?

<sup>21</sup> Methodological Criteria of Call for Comment available at: <https://www.unepfi.org/net-zero-alliance-call-for-comment-alliance-methodological-criteria/>

# 4. Translating net-zero into pathways

## 4.1. Balancing high ambition, science and the real economy

Members of the Alliance have committed to 1) transitioning their investment portfolios to net-zero GHG emissions by 2050 and 2) achieving this especially through advocating for, and engaging on corporate and industry action, as well as public policies, for the low-carbon transition of economic sectors in line with science and under consideration of associated social impacts. Defining net-zero pathways must take both goals into account, while also considering implications for a Just Transition.

The integration of the commitment via engagement is considered a core component to assure that not only the Alliance members' portfolios transition to net-zero, but that the Alliance members also have an impact on the real economy. A decarbonisation of portfolios could be easily achieved by selling carbon intensive investments. However, it is highly questionable if such actions alone would have a positive impact on the real economy. Additionally, it might undermine Alliance members ability to engage with corporates and effect emissions reductions in the real economy. There are also sectors of the economy and corporates where engagement will ultimately have limited to no impact. As such, an Alliance members' sole reliance on an engagement strategy might not allow them to achieve net-zero emissions by 2050, while at the same time expose their portfolios to high transition risks.

This is particularly important in 2020 as only few corporates have announced net-zero commitments and, of those who have, fewer have articulated intermediary targets for 2025. Nevertheless, we expect that today's efforts by corporate pioneers will turn into a groundswell over the next 5 years as momentum is building in the real economy.

We also expect that, by then, Governments will have further advanced by turning their net-zero pledges into policies supporting the real-world economy in its transition.<sup>22</sup>

Thus, the 2025 interim target must be ambitious enough to signal an Alliance member's expectations while taking into account that the real economy is only just beginning its net-zero transition.

Further, asset owners are not created equal in terms of business mix, regulatory aspects, and management approaches. Therefore, a one-size-fits-all approach is not productive. Alliance members have:

1. Different starting points in terms of portfolio carbon emissions,
2. Diverse liability constraints,
3. Diverse sector allocations which may not reflect the global investment universe and may be geographically concentrated,
4. Different maturity profiles for the credit portfolio - constraining the ability to reinvest in greener alternatives,
5. Different levels of new business and growth,
6. Varying investment approaches and turn-over restrictions (active management versus buy and hold strategies).

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<sup>22</sup> The Alliance notes that jurisdictions considering net-zero legislation account for nearly 50% of global GDP, there is still a need for binding legislative and/or regulatory targets to ensure progress. Alliance welcomes further government action in this respect. <https://eciu.net/analysis/briefings/net-zero/net-zero-the-scorecard>



Thus, in the short-term, some Alliance members may choose lower range reduction targets (following an 's' shaped curve, rather than a linear pathway to net-zero) in order to support the transition and exercise active ownership. Such Alliance members would stay invested in select high emitting companies that respond positively to the engagement and have set ambitious decarbonization goals coupled with robust transition plans.

Over the medium term, it is expected Alliance members' carbon profiles converge in line with science as the above investment constraints become less of a barrier, and importantly, governments as well as corporates make progress in addressing the challenges of climate change.

## 4.2. Scenario-derived emission trajectory considerations for sub-portfolio target

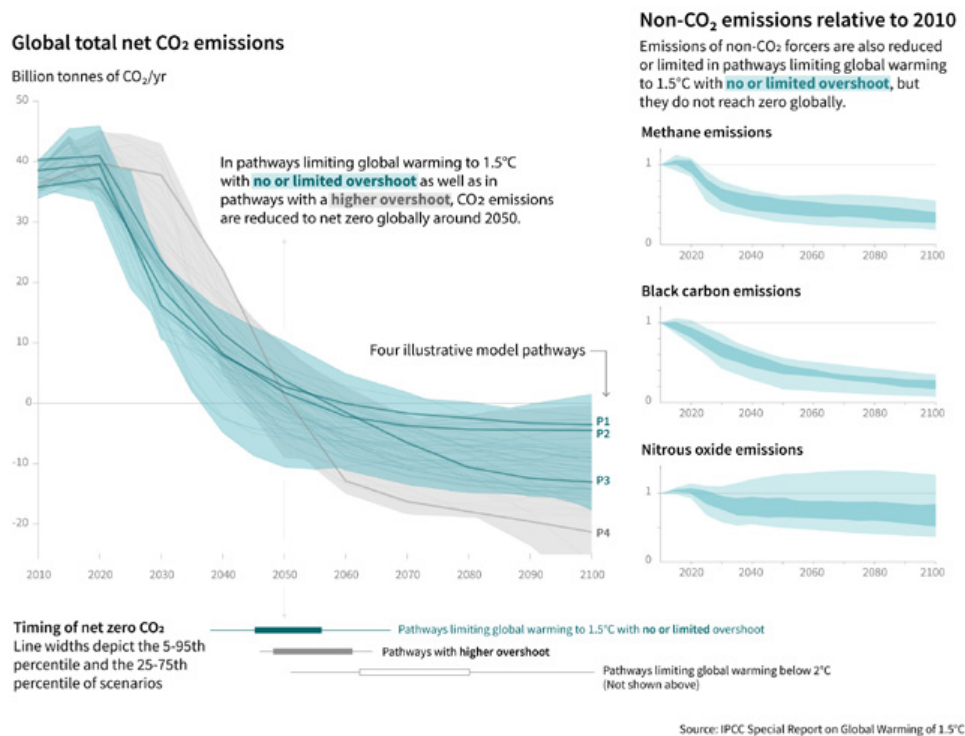
**The Alliance assessed IPCC SR1.5°C pathways to inform individual members in their target setting approach for portfolio emissions reductions. It found emissions reductions for the period 2020 to 2025 should range at least between -16% to -29% (after removing any overlap with 2°C scenarios emissions reductions for the same period) as outlined in the criteria below.**

The Alliance commitment refers to "net-zero GHG emissions by 2050 consistent with a maximum temperature rise of 1.5°C above pre-industrial temperatures, taking into account the best available scientific knowledge including the findings of the IPCC." To this end, we consulted several academic institutions heavily on the conclusions of the *IPCC Special Report on Global Warming of 1.5°C*.<sup>23</sup>

Various efforts were undertaken to ensure that Alliance targets are informed by the best-available science. The following sections describe how scientific climate, energy models and others were used to inform Alliance decarbonization rates.

### Global emissions pathway characteristics

General characteristics of the evolution of anthropogenic net emissions of CO<sub>2</sub>, and total emissions of methane, black carbon, and nitrous oxide in model pathways that limit global warming to 1.5°C with no or limited overshoot. Net emissions are defined as anthropogenic emissions reduced by anthropogenic removals. Reductions in net emissions can be achieved through different portfolios of mitigation measures illustrated in Figure SPM.3b.



<sup>23</sup> IPCC (2018) 'Global Warming of 1.5°C: An IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty.' <https://www.ipcc.ch/2018/10/08/summary-for-policymakers-of-ipcc-special-report-on-global-warming-of-1-5c-approved-by-governments/>.

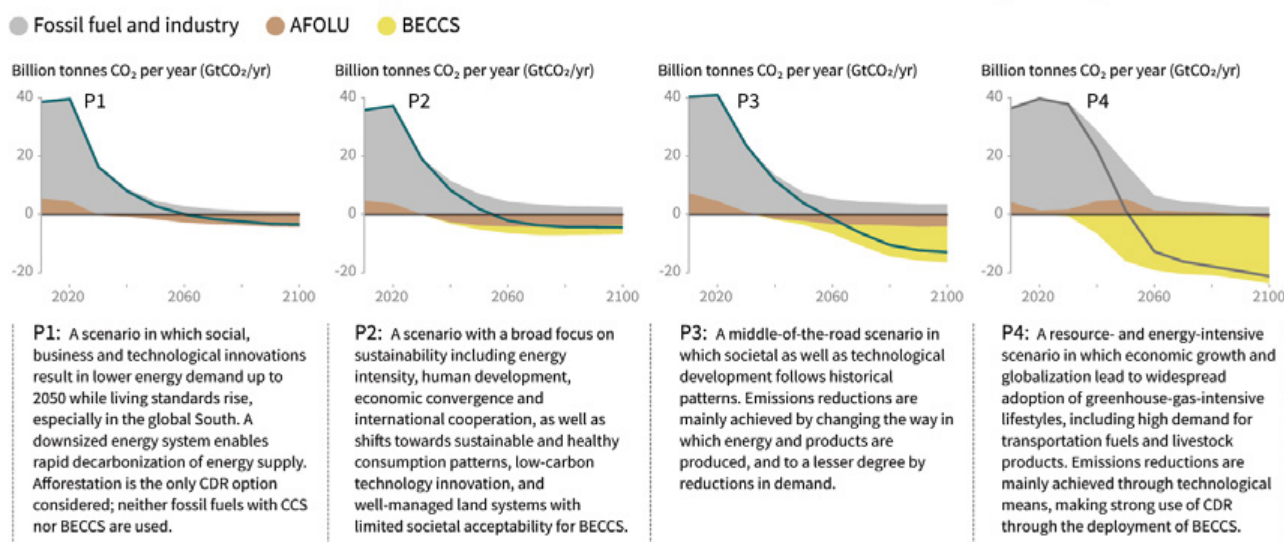
The underlying, academia-vetted assumptions to this are:

- Use of **no and low overshoot scenarios** only (often referred to as P1, P2, P3 type scenarios), i.e. not relying on **very large amounts** of negative emissions (CDR, carbon dioxide removals as seen in P4 pathway scenarios)
  - **Noting that AR6 scenario results** are expected to be in roughly line with SR15 scenarios
- CO<sub>2</sub> trajectories provide the blueprint for all GHGs; the Alliance's goal is net-zero 2050 for all GHG, which is more ambitious than the climate scenarios, which largely see net-zero for non-CO<sub>2</sub> GHGs later than 2050. However due to data reporting practices at present, data is typically reported in CO<sub>2</sub>e. Thus, the Alliance will need to set targets on CO<sub>2</sub>e. This has the effect of somewhat balancing out the net-zero end date between GHGs given practical constraints for tracking GHG emissions reductions as CO<sub>2</sub>e
- Global pathways are sufficient when portfolios are diversified regionally and by sector
- When scenarios did not provide data for 2015, 2025, 2035 etc the data was linearly projected, a method that was supported by colleagues consulted at CICERO, PIK, among others
- To be less sensitive to the assumptions and narratives of individual scenarios, the Alliance will rely on the median of a sub-set of scenarios
- Filtering scenarios which foresaw significant reductions from 2015–2020 as emissions reductions did not occur during these years as these scenarios earlier predicted
- 1.5°C no and low overshoot (P1, P2, P3 type pathways), median ranges indicate a -24% to -29% reduction required between 2020–2025
- 1.5°C high overshoot (P4 type pathways) with a floor value derived from (more ambitious) lower 2°C scenarios, indicates a starting range of -16% for the period 2020–2025

## Characteristics of four illustrative model pathways

Different mitigation strategies can achieve the net emissions reductions that would be required to follow a pathway that limits global warming to 1.5°C with no or limited overshoot. All pathways use Carbon Dioxide Removal (CDR), but the amount varies across pathways, as do the relative contributions of Bioenergy with Carbon Capture and Storage (BECCS) and removals in the Agriculture, Forestry and Other Land Use (AFOLU) sector. This has implications for emissions and several other pathway characteristics.

### Breakdown of contributions to global net CO<sub>2</sub> emissions in four illustrative model pathways



For the period 2020 to 2025, considering that the real economy may have only reached peak emissions this year, Alliance Members may apply any of the above pathways so as to balance their own portfolio taking into account the real impact on the economy and potential divestment, as well as to take into consideration their own assumptions around the future development of CDR or BECCS. The members are expected to be transparent as to the nature of the targets they choose (absolute or intensity or a combination of both) and how these targets relate to the abovementioned pathways (including assumptions on CDR/BECCS).

As part of the Alliance aspiration to further advance the Protocol, Alliance Members are welcomed to explain why certain targets do not fit their overall investment approach. The best available proxy—as described above—is to take guidance from global pathways for the entire economy. This assumes the AO has regional geographic balance in their portfolio. If this is not the case, they may choose to adjust their target to reflect their investable universe more appropriately. Another adjustment may be driven by the fact that some AOs have higher or lower carbon intensity per their respective investment strategy. This may require the AO to adjust up or down. An AO which is above or below average carbon intensity with respect to its peers with similar investment strategies may want to adjust their sub-portfolio targets. It is their responsibility to apply pragmatic, science-based principles to their selection, explain their reasoning for how net-zero can realistically be achieved without large overshoot or unrealistic BECCS assumptions, and in doing so, preserve their reputation and credibility.

The Alliance further recognizes that it intends to undertake that which is realistically within its control to catalyse emissions reductions. However, the rate of technological or policy change cannot be confirmed. It is noted that targets set considering the no and low overshoot scenarios above may not be attainable with an engagement-only approach without **appropriate related government policy and corporate actions**.

#### 4.2.1. Adjusting for Pre-Existing Targets (and Reductions Achieved)

**Alliance members with pre-existing, public targets are able to translate their base year to an earlier one if scientific pathways have been considered for years prior to 2019**

A number of Alliance members already have public quantitative, absolute or intensity-based emission reduction targets with reference to a different base year. Alliance members may opt to use a different base year, but should consider the decarbonization trend line as described above. To this end, Alliance members are recommended to add -5% of reduction for every year<sup>24</sup> they go back before the Alliance base year of 2019 for the upcoming intermediary target-setting period. This would, for instance, mean -10% of additional CO<sub>2</sub> emission reduction requirements on top of the selected percent if an Alliance member uses 2017 as base year instead of 2019. Additionally, targets pre-dating Alliance membership must have been made public and evidence should be produced to this effect. Under this “give credit where credit is due” approach, members can then net the emission reductions already achieved (or not achieved) before 2019 and prior to the launch of the Alliance. To maintain consistency with the Alliance reporting cycle, public targets issued more than 5 years prior (i.e. before 2014) should not be considered and base years closer to 2019 are recommended. The Alliance is aware that the proposed -5% per annum is not in line with observed emission development in the last years thus this approach might be too restrictive for inclusion in the final Protocol and remains under discussion in the Alliance.

#### 4.3. Scenario-derived emission trajectory considerations for sector targets

**The Alliance will review for inclusion scientifically-derived, net-zero sector pathways wherever available**

“Sector decarbonization pathways” are a key tool in guiding the global economy towards net-zero emissions. These pathways can account for the different rates at which a given sector can decarbonize, and anchor this in their existing global emissions budget. They can also provide decision useful information on sector-specific R&D, technological development, decommissioning and in other areas. In practice, sectoral decarbonization pathways rely on a wide range of contested assumptions about the rate of technological change, costs and abatement curves, consideration of emissions allocations between sectors and other factors. A variety of models and scenarios can be reviewed and a range of values for that sector can be established as a model. Ultimately these science-based models can significantly aid, support and accelerate sectoral dialogues. For many years SBT has worked with corporate target setting and established the “sector decarbonization approach”, TPI also tracks corporate commitment and progress against decarbonization pathways, as do many other tools and providers.

<sup>24</sup> This is in line with IPCC 1.5°C reductions required for 2015-2020 as well as an equitable annual share of the 2020-2025 Alliance reduction target average.

However, given the relatively new nature of the net-zero objective, and the time required to develop credible models and scenarios, no known providers of sectoral decarbonization pathways for net-zero by 2050 were readily available for use by the Alliance as of Q1 2020. At the end of Q1 the Alliance brought together the actors indicated in section 1.6.6 above to translate the One Earth Climate Model, an energy systems model, into the financial sectors commonly used (GICS, BICS, NACE) by financial, corporate and political actors. These preliminary results will provide a first model indication against which Alliance members can assess corporate sectoral targets. The Alliance will also compare for and take the range of 1.5°C pathways wherever available. To date, the Alliance is aware of Cambridge Econometrics, Investor Leadership Network and a 1.5°C power sector pathway from SBT. Comparisons have been noted in the Sector Targets chapter. We aim to compare to future IEA scenarios whenever possible.<sup>25</sup>

## 4.4. General Principles

### 4.4.1. Base and Target year

#### **Base year and Target year are 2019 and 2024 respectively**

The Alliance Commitment requires intermediate targets to be set every five years in line with the Paris Agreement Article 4.9. The Alliance aims to report publicly on progress in Q4 2025, and issue targets for Q1 2021. Members should consider the following target dates and underlying data in their work:

- Year of target-setting: Q1 2021
  - Data base year
    - emission data: year-end 2019 (as made available by CDP or similar data providers in H1 2020) or most recent data available
    - portfolio data: year-end 2019
- Target year: Q4 2025
  - Data target year
    - emission data: year-end 2024 (as made available by CDP / data providers in H1 2025) or most recent data available
    - portfolio data: year-end 2024

### 4.4.2. GHG Coverage (CO<sub>2</sub>e)

#### **Alliance members will report in CO<sub>2</sub>e. Members are encouraged to disaggregate GHG emission data wherever possible.**

The Alliance members commit to net-zero GHG emissions by 2050. The Alliance published guidance in September 2019 at its launch which provided the following guidance: *"We envision tracking of all GHGs. Reporting against CO<sub>2</sub> is required, reporting against non-CO<sub>2</sub> GHGs is encouraged and its mandatory inclusion will be considered in the future."*<sup>26</sup>

However, CDP and similar providers typically produce data for underlying holdings in CO<sub>2</sub> equivalent (CO<sub>2</sub>e), which translates the impacts of other GHGs (e.g. Methane "CH<sub>4</sub>", Nitrogen Oxides "Nox") into the climate impact of CO<sub>2</sub>. Therefore, Alliance members will report on a CO<sub>2</sub>e basis – as provided by CDP or similar data providers. Wherever disaggregation is available for non-CO<sub>2</sub> GHGs, Alliance members are encouraged to report on a disaggregated basis.

<sup>25</sup> Mission 2020 'Joint letter to the IEA:' <https://mission2020.global/letter-to-IEA/>

<sup>26</sup> [https://www.unepfi.org/wordpress/wp-content/uploads/2019/09/AQA\\_FAQ.pdf](https://www.unepfi.org/wordpress/wp-content/uploads/2019/09/AQA_FAQ.pdf)

### 4.4.3. Emission Scope Coverage

#### **Targets are set on the Alliance member's Scope 3 emissions (e.g. "Portfolio emissions")**

For asset owners, Scope 3 emissions are equivalent to their "investment portfolio emissions". Alliance members are setting targets on their institution's Scope 3 emissions. Although it is beyond the scope of the Alliance's work, the Alliance supports and encourages members to set net-zero targets for their Scope 1 and Scope 2 emissions. Going forward in this document, all references to Scope 1, 2, and 3 refer to the emissions profile of the underlying investment holdings.<sup>27</sup>

### 4.4.4. Emission Scope Coverage of the Underlying Equity

#### **The Alliance recommends that Alliance members set targets on Scope 3 in sectors covered under Sector Target wherever possible. For sub-portfolio targets, members should track, but not yet set targets on Scope 3 emissions until data becomes more reliable.**

Corporate data on Scope 3 is somewhat unreliable<sup>28</sup> and several data provider estimate Scope 3 emissions with a wide range of outcomes. The estimation methods and reported data can differ substantially. Several options for addressing Scope 3 have been explored:

1. Exclude completely Scope 3 emissions from the first sub-portfolio targets.
2. Exclude completely Scope 3 emissions from the first sub-portfolio targets but recommend internal Alliance member the internal tracking of emissions – as far as data is available.
3. Exclude Scope 3 emissions from sub-portfolio targets but recommend that it is include it in the Sector Targets for the most relevant sectors.
4. Exclude Scope 3 from targets but include it in the reporting. Then, include it in Targets as soon as the Alliance feels comfortable with the underlying data.
5. Include Scope 3 and explicitly comment that there is a lack of reliability in the data. Work with the providers on a methodology to calculate more robust data, which would level up our credibility. A backward revision of targets or data can be done once the Alliance feels more comfortable with the data.

The Alliance decided to employ both option 2 and 3 as listed above.

### 4.4.5. Internal Operationalisation

Alliance members should deploy the necessary operational capacity to make carbon emission data available across the organization. The data should include at least Scope 1 and Scope 2 and are recommended to be sourced from a credible and independent source. The disclosure of portfolio carbon footprints or carbon intensities should be in line with the recommended coverage made in the Protocol. The methodology used for doing the carbon footprint should be accessible and explained in enough details so it can be replicated by an independent institution given they have access to the same level of information. They also commit to disclose the progress that they have made using a consistent methodology.

#### **Consultation Questions:**

3. Do you agree with the inclusion of an additional -5% per annum for members who set targets on earlier base years?
4. Do you have suggestions for different methods of applying scientific scenarios to portfolios and deriving a reductions target than those presented above?
5. Are you aware of 1.5°C sector pathways which are not noted above?

<sup>27</sup> SBTIFI requires that FIs set targets on their own Scope 1 and 2. Alliance does not view this is material at present (roughly 3% of an FI's emissions are an FI's own Scope 1 and 2) and focuses efforts on an FI's Scope 3 or "Portfolio Emissions"

<sup>28</sup> Busch, T., Johnson, M., Pioch, T. and Kopp, M. (2018) 'Consistency of Corporate Carbon Emission Data' University of Hamburg: [https://ec.europa.eu/jrc/sites/jrcsh/files/paper\\_timo\\_busch.pdf](https://ec.europa.eu/jrc/sites/jrcsh/files/paper_timo_busch.pdf).



# 5. T1 – Sub-Portfolio targets

**Member's sub-portfolio targets should strive for carbon reductions in the range outlined above of -16% to -29% by 2025, using a 2019 baseline, covering corporate equities, bonds and real estate asset classes, independently or in aggregate, for Scopes 1 and 2 of the underlying holdings.**

Sub-portfolio targets cover all sectors and asset classes where credible methodologies exist. These targets represent the Alliance's direct commitment to decarbonizing member portfolios. Together with the sectoral targets, the sub-portfolio targets are the most significant quantitative component of our target setting scheme and reporting rubric. Sub-portfolio targets aim to guide a decrease in the underlying emissions profile for a pool of investee companies. They enable an aggregate ambition and monitor progress, notably achieved through engagement and financing activities, against an asset class desired outcome. Alliance members will work to reach portfolio targets on a sector-neutral basis. Members do not want to withdraw capital from the high emitting sectors but do want to provide the necessary capital for the transition as needed (so long as the sector activities are transformable to a net-zero economy). Capital should be directed towards those companies who are willing to transform their business models to align with a net-zero pathway.<sup>29</sup>

The asset classes that should be included in the sub-portfolio target are corporate bonds, equities and real estate, because carbon emissions data are more readily available for these asset classes, the metrics supported by organisations around the world are readily available to be used by the Alliance and these asset classes represent a good starting point for Alliance members to work towards the 2050 objective. The carbon emissions<sup>30</sup> included in the first iteration of the Alliance portfolio target are the Scope 1 and Scope 2 of the portfolio companies (as the consistency of Scope 3 data is not robust enough to be used by members of the Alliance for target setting).<sup>31</sup> This can be revised backwards if the consistency of Scope 3 emissions improves in the coming years.

As described in the preceding section 'Scenario-derived emission trajectory considerations for sub-portfolio target' should be set based on the chosen pathway. This reduction can be assessed with an aggregation of (i) real estate; (ii) corporate equity; and (iii) corporate bond emission reductions,<sup>32</sup> or can be applied to each asset class separately. It can also be applied in aggregate or separately across Scopes 1 and 2.

The aggregation of corporate equities, bonds and real estate into a single portfolio target is feasible but depends on the metrics used to track emissions reductions by portfolio type. The first publicly announced targets will focus on laying the groundwork for a broader scope of asset class to be included. The Alliance will continually improve the KPIs used to assess real-world impact of target setting across all asset classes.

29 At present, the Alliance relies on each Alliance member to make their own determination on a company's ability to meet a business model transition. Guidance from IIGCC PAII framework provides an early set of criteria which is aligned with Alliance criteria as described above.

30 By carbon emissions, it is implied throughout this document that this notion covers carbon and the equivalence of other GHG converted to CO<sub>2</sub>. This topic can be discussed further.

31 However, Alliance members who believe they can set targets on scope 3 emissions are encouraged to do so. University of Hamburg, Consistency of corporate carbon emission data (See Appendix I).

32 In this scenario higher reductions in one asset class could offset a lag in the other.

## 5.1. Corporate Bonds and Listed Equity

### 5.1.1. Key Metrics

**The Alliance prefers the use of an absolute Total Carbon Emissions approach for target setting; however, the current Protocol accepts intensity-based targets.**

It is not uncommon to associate carbon reduction targets (or other qualitative targets) with KPIs. The KPIs can be used to assess how well an Alliance member performs towards its objectives. The KPIs listed below are commonly used to assess the progress towards portfolio decarbonization.

Alliance members are deeply committed to relying on the best available science to inform their targets and working to reduce absolute emissions. However, both absolute and intensity metrics are useful for investors for the following reasons:

- Carbon intensity is a highly useful tool in allocating capital, in the construction of decarbonizing portfolios and in measuring progress. Therefore, carbon intensity can play a key role in setting the stage for achieving absolute emission reductions.
- In a given specific sector, absolute corporate emissions are highly dependent on the size of the corporate. Using a carbon intensity measure allows an investor to compare companies within an industry and select the most carbon efficient player in a given industry, independent of the size of a company.
- Alliance members may be expecting significant growth in their portfolios as a result of shifting capital, good returns, economic growth or simply because they manage products or plans that are in an accretive phase (contributions exceed withdrawals). The opposite may be true for other members. These variations of asset under management will highly influence absolute portfolio emissions and thus not reflect real decarbonization trends. Here, an intensity metric helps to better mirror the decarbonization efforts on the marginal dollar.

Notwithstanding the Alliance's overarching (absolute) net-zero ambition for 2050, we consider that intensity metrics and intensity-based targets can play an important role in the implementation and management of portfolio decarbonization within asset owners. Alliance members may therefore set absolute or intensity-based targets, particularly in the early years.

**Reporting for both absolute and intensity-based is encouraged. If an intensity-based metric is utilised than an explanation should be included** detailing which assumptions intensity reduction targets are based on (e.g. GDP growth etc.) and how this relates to absolute emission reductions and net-zero pathways.

Using market cap is common for equity portfolios but as most members of the Alliance are also invested in corporate bonds, we recommend using enterprise value (or EVIC) to allocate emissions to the relevant parts of the balance sheet (equity/debt).<sup>33</sup>

In general, we recommend that in all calculations nominators and denominators are closely aligned e.g. taking nominal value for bonds in an EV based calculation as the outstanding debt component in the EV of a company is also based on nominal value. Moreover, less volatile measures will lead to more stable results.

#### **Total Carbon Emissions (absolute metrics)**

This metric measures the total carbon emissions associated with the underlying investments of a portfolio. The Scope 1, Scope 2 and potentially Scope 3 carbon emissions are attributed based on the equity or debt ownership relative to the Enterprise Value or EVIC and for equities, Market Cap.<sup>34</sup>

<sup>33</sup> This is also in line with the EU Benchmark Regulation linked to the EU Action Plan on Sustainable Finance and the European Banking Authority's Regulatory Technical Standards (RTS) consultation.

<sup>34</sup> The Alliance notes that market cap would not be a reasonable metric for calculating emissions for fixed income holdings.

**Pros:**

- Easily understandable and well known across the investment industry
- The metric can be used on a number of asset classes, including real estate, by using the asset value as the denominator

**Cons:**

- Portfolio growth can outpace the reduction in carbon emissions. Adaptations for M&A and unusual portfolio growth rates are necessary
- Difficult to compare portfolios, as it is an absolute rather than a relative metric
- Might be difficult to implement using market value of debt. We recommend the use of debt's nominal value

**Formula:**

Weighted by EV	Weighted by Market Cap
$\sum_{i=1}^n \left( \frac{I_i}{EV_i} \times C_i \right)$	$\sum_{i=1}^n \left( \frac{I_i}{M_i} \times C_i \right)$
I: Current value of investment in issuer i	I: Current value of investment in issuer i
EV: Enterprise Value of issuer i	M: Market Capitalisation of issuer i
C: Carbon emissions of issuer i	C: Carbon emissions of issuer i

Other initiatives which are utilising similar methodologies:  
TCFD, PCAF

**Carbon Intensity (intensity metrics)**

**If an Intensity-based metric is reported, it is recommended that either Revenue or EV/EVIC is used.**

This metric represents the volume of emissions attributed to an Alliance member in relation to a specific financial metric. The carbon intensity can be expressed with different denominators as shown below.

**Pros:**

- As emissions data coverage improves and new asset classes are added, an intensity metric is more stable and better accommodates baseline adjustment
- The metric can be used on a number of asset classes, including real estate assets. If a member selects a combined target, this metric can still be created by using the asset value as the denominator or revenues
- This metric can be used to compare the emissions intensity level of different asset classes, portfolios or even members. It is also a useful metric to select, within the same sectors, the best players to rebalance a portfolio towards a low carbon tilt
- A quantitative analysis on variation factors can be performed on this metric

**Cons:**

- The reduction/increase in emissions can be driven by volatility in the economic metric selected as the denominator
- Total emissions can still increase even if the carbon intensity measure used decreases
- Might be difficult to implement using market value of debt. We recommend the use of debt's book value
- Revenues in high emitting sectors are often directly linked to volatile commodity prices (e.g. oil, gas, and coal)

## Formula:

Carbon Intensity by EV	Carbon intensity by Revenues
$\frac{\sum_{i=1}^n \left( \frac{C_i}{EV_i} \times I_i \right)}{\sum_{i=1}^n I_i}$	$\frac{\sum_{i=1}^n \left( \frac{C_i}{R_i} \times I_i \right)}{\sum_{i=1}^n I_i}$
I: Current value of investment in issuer i	I: Current value of investment in issuer i
EV: Enterprise Value of issuer i	R: Annual revenues of issuer i
C: Carbon emissions of issuer i	C: Carbon emissions of issuer i

Other initiatives which are utilising similar:  
EU's Financial Supervisory Authorities (EBA, ESMA and EIOPA)

### 5.1.2. Adjustments for growth for absolute emission targets

Where a member sets targets on absolute emissions an adjustment for extensive variation in portfolio size (either organic or inorganic) may be necessary.

For instance:

- In case portfolios grow significantly faster or slower than average GDP over time, a target adjustment could be made to account for this change. The Alliance recommends the use of GDP growth based on World Bank data as outlined in the table below. The climate models on which Alliance members base their CO<sub>2</sub>e reduction targets usually work with assumed GDP growth based on World Bank data which suggests a 3 percent global average growth rate (see table below).
- In the case where portfolios are structurally subject to significant variations in size, members can express footprint targets per million euros/dollars invested, thereby simultaneously encompassing inflows in their target setting scope, while neutralising the bias that would be caused by capital flows.

Region	Growth rate
<b>OECD North America</b>	<b>2.1%</b>
OECD Pacific	1.3%
<b>OECD Europe</b>	<b>1.5%</b>
Eastern Europe/Eurasia	2.5%
Middle East	3.4%
Latin America	2.8%
China	4.2%
Africa	4.4%
India	5.6%
Non-OECD Asia	3.6%
<b>Global</b>	<b>3.2%</b>

### 5.1.3. Adjustments based on Merger and Acquisitions (M&A) activities

M&A transactions may require an adjustment to sub-portfolio targets. For the adjustment, a linear reduction between base year and target year is assumed. The emissions of the acquired (or sold) portfolio are measured at transaction time and the adjusted portfolio will then have a new target. It is the responsibility of each Alliance member to decide whether a M&A transaction is large enough to justify a new target and to properly document the adjustment in case a new target is set.

For example, Company A sets targets with base date 31.12.2019 and absolute reduction of -25% in the 5 years to 31.12.2024, reducing emissions from the 100 point baseline figure to 75. Company A acquires Company B at 30.06.2021 with emissions of 35 at that date. As the time until 31.12.2024 is 70% of the initial 5 years, Company B needs to reduce emissions by 18% from 30.06.2021 to 31.12.2024 and the new joint emissions target is 103,9. See also the table below.

	Company A	Company B	Company A+B
<b>Base date</b>	31.12.2019	30.06.2021	
<b>Target date</b>	31.12.2024	31.12.2024	31.12.2024
<b>Share in target timeline</b>	100%	70%	
<b>Reduction</b>	-25%	-18%	
<b>CO<sub>2</sub> emissions @base date</b>	100	35	
<b>Target CO<sub>2</sub> emissions</b>	75	28.9	103.9

### Communicating Adjustments for intensity-based targets

While far less applicable for intensity-based targets, all adjustments to targets must be communicated in a transparent way, explaining the reasons and the methods in detail.

#### Consultation Questions:

6. Do you agree with the approaches described above for setting sub-portfolio targets?
7. Do you agree with the preference of absolute targets over intensity targets?
8. Do you agree with the use of EV/EVIC or Market cap as metrics for assessing absolute emission? If not, please describe the alternative.
9. Do you have further suggestions for how an Alliance member should adjust for inorganic growth (or other portfolio change) or M&A activities? Please explain the rationale?
10. Do you have a suggestion for a threshold in change in size which should trigger a revision of targets?



# 6. Real Estate

## 6.1. Objectives and scope

### Target Setting Protocol Summary

Term	Definition
<b>Asset Class</b>	The Alliance recommends that members set emissions reductions targets on “fully and jointly owned” Real Estate portfolios
<b>Sectors</b>	Commercial and Residential buildings
<b>Scope</b>	Targets are recommended to be set on Scope 1 and 2, plus tenant related Scope 3 emissions from heating and electricity
<b>Target</b>	Includes both landlord controlled and tenant-controlled areas in line with the overall sub-portfolio target or Carbon Risk Real Estate Monitor (CRREM) 1.5°C national pathways. The output will be an emission target (per gross floor area) at the portfolio level. The recommended metric is CO <sub>2</sub> e/m <sup>2</sup> /annum
<b>Approach</b>	As a science-based scenario is required, the use of CRREM35 1.5°C pathways is recommended

## 6.2. Key Definitions

- **Residential buildings:** refers to private dwellings such as apartments and houses.
- **Service buildings:** includes properties related to trade, finance, retail, public administration, health, food and lodging, education and commercial services
- **Fully-owned:** includes all assets that are held 100% in portfolio during the baseline year (2019)<sup>36</sup>
- **Joint Venture:** when an asset or assets are part of a joint venture, joint operation or are in joint ownership, participants are required to report on these assets. Joint venture partners with a stake of 25 percent or higher are considered to have significant influence over operational initiatives and can therefore drive implementation of performance improvements.
- **Operational control:** is defined by the asset owner having the ability to introduce and implement operating policies, health and safety policies, and/or environmental policies. (This recognizes the actual capacity of the asset owner to advance decisions which can lead to a reduction in the level of CO<sub>2</sub>e emissions.)
- **Tenant Controlled:** where a single tenant has the greatest authority to introduce and implement operating policies and environmental policies, the tenant should be assumed to have operational control.<sup>37</sup>
- **Scope 1:** for the purposes of this asset class refers to direct emissions from onsite fuel combustion for space heating, water heating, cooking purposes in the full building.

<sup>35</sup> The Carbon Risk Real Estate Monitor (CRREM) is a European Horizon 2020 research and innovation project. The objective of CRREM is to accelerate the decarbonisation and climate change resilience of the EU real estate sector by providing appropriate science-based carbon reduction pathways at property, portfolio and company level. See: [www.crrem.eu](http://www.crrem.eu).

<sup>36</sup> Final guidance is being elaborated but the working definition would include assets held 200 of 365 days.

<sup>37</sup> For example, in the case of a full repairing and insuring (FRI) lease in England and Wales, the tenant has operational control meaning that the area is tenant controlled.

- **Scope 2:** for the purposes of this asset class refers to indirect emissions from purchased energy (electricity, steam, heat and cooling) for space heating, water heating, space cooling, lighting, cooking, appliances and miscellaneous equipment. These indirect emissions include the energy use by the tenants.
- **Scope 3:** for the purposes of this asset class refers to tenant-related emissions from electricity and heating (embodied carbon, downstream, upstream not included)

### 6.3. Setting Target

As a science-based scenario is required, the use of CRREM 1.5°C pathways is recommended.<sup>38</sup>

Therefore, an Alliance member can either set:

- a specific target for the Real Estate portfolio using CRREM 1.5°C pathways. Targets derived from the CRREM model allow asset owners to reflect the actual makeup of their real estate portfolios with respect to geographic location and building type (such as residential and commercial).
- a target for the Real Estate portfolio aligned with the selected reduction ambition as outlined in Chapter 5, allowing also combined targets with Equity and Corporate bonds

#### 6.3.1. The Use of CRREM Pathways

CRREM offers the possibility to evaluate the progress of a portfolio's carbon reduction performance against reduction targets in line with the Paris Agreement (i.e. limiting global warming to 2°C / 1.5°C). CRREM offers several inputs to define a specific target for a real estate portfolio and allows for global and/or country-specific decarbonization rates.

The use of a specific target for real estate allows a better consideration of the specificities of the portfolio of each Alliance member. In this case, the member can define the target according to the geographic location of its assets (some countries are more advanced in terms of decarbonisation of the energy mix) and the assets type, which can be included in the real estate target via a bottom up approach. A member with 50% of the buildings in country A and 50% of the buildings in country B would have an aggregated target based on a 50% weight for the national pathway target for country A and country B, respectively. Additional adjustments could be made in similar ways for specific building types.

Individual member targets defined according to this approach can differ significantly as national decarbonisation targets differ significantly. As an example, the 2020-2025 emission reduction requirement in CRREM 1.5°C global pathway is 28% but national reductions vary between 15-28% (residential) and 14-32% (commercial).

Limitations are noted in the CRREM pathways as its current version coverage is limited to the EU and a selected number of additional countries. However, for the purposes of the Alliance with the current composition of asset owners the country coverage of the CRREM model was determined to be sufficient, via the tool or via the global pathway model, to be used by the member to define their specific target.

<sup>38</sup> A different pathway provider can be used by the Alliance member as long as it is aligned with a credible net-zero by 2050 model or scenario which conforms to a 1.5°C carbon budget. The Alliance is not aware of any alternatives to CRREM at this time.

## 6.4. Coverage

Where an Alliance member cannot define a target based on the total floor area under management, the member should:

- Declare in a transparent way the percentage of its RE portfolio (in terms of percentage of total gross floor area) covered by the target.
- Declare what percentage of the emissions considered in the target are estimated.
- Define and communicate how they intend to reach full coverage over time.
- For buildings where only common area/operational area is taken for target setting, tenant area of such buildings should be deducted from the target setting area under consideration.

As Alliance members should show a positive commitment to cooperate with tenants, all members are encouraged to track energy performance metrics and should ultimately seek to engage utilities on their supplied energy mix.

Further, while historic buildings can present specific challenges, it is the objective of the Alliance that all assets under management should be taken into consideration in the target setting process. If the member cannot make improvements for some specific buildings (ex. if retrofit does not make economic sense, or some characteristics of the building make it difficult to make important refurbishment works), this should be clearly explained by the Alliance member.

### 6.4.1. Data Availability and Estimation

Data is, as for all asset classes, a central component in the ability to set and achieve emission reduction targets. Significant differences exist between regions in terms of reported data availability for the carbon emissions and/or energy consumption, particularly when the asset is occupied by third party tenants.

Reported data is preferred over inferred (proxy-based) data, where it is robust (e.g. audited, publicly reported). Proxies may be used to cover lack of data provided these are transparent and based on robust and dynamic extrapolation rules that are revised regularly.

**Estimation:** When utility consumption annual data is partially unavailable or unreliable for an asset, estimation is allowed.

Where estimations are used, the Alliance member should;

- Disclose the estimation methodology used
- Disclose the proportion of total disclosed data that is estimated (based on both the floor area for which estimates are used)

Members who rely on estimated data should include a strategy to collect real data and replace estimated data with real data in the coming years. A revision mechanism should be considered to allow for evolution in the target as data quality improves.

## 6.5. Key levers for Emission Reductions in the Real Estate Asset Class

The levers available depend on the asset type and geographic exposure. Feedback suggests that the different levers can be considered according to the specificities of the assets.

Reallocation or divestment approaches are less feasible compared to liquid asset classes. Achieving emission reductions by selling low performing buildings and acquiring better performing ones should not be the primary lever to reach targets. Instead, the approach should be reducing the carbon emission of the existing portfolios.

The key levers should be:

- **Changes in the energy mix.** This lever can be readily applied unless the energy mix of the country/ portfolio already relies highly upon renewables.
- **Improving the buildings' energy performance** (this lever can require capital expenditure (CAPEX) and should ideally be based on building-specific retrofit plans that lead to net-zero by 2050 at latest). The suitability of this lever depends on the average age of the portfolio, as for more recent buildings the improvement can be marginal.
- **Tenant engagement.** The use of this lever depends on regulation and on the type of tenant. This approach is easier for buildings occupied by a single large tenant. In case of a wider, fragmented portfolio the engagement option to reduce emissions may be more challenging.
- **Policy advocacy and grid operator engagement** can be used with the intention to create obligations for the disclosure of energy consumption data from tenants and to align asset owner and tenants on a common goal of reducing the CO<sub>2</sub> emissions from the building. Alliance members should also evaluate the possibility of engaging with real estate industry associations to explain the needs from an asset owner perspective in terms of data availability and goal alignment with the tenants. For example, in France, regulation requires alignment between tenants and asset owners on decarbonisation targets.
- **Investing in new buildings which have lower emissions-intensity.** This lever can be used for a growing real estate portfolio, while it can be difficult in case of a stable or decreasing portfolio.
- **Divesting existing buildings which have higher emissions-intensity.** This lever can be difficult to use and, at best, only has indirect impacts on real world emissions reductions.

The ability to work with these levers and to understand how they will impact each Alliance member's decarbonisation is important. Efforts across the real estate sector will have significant regional differences and also depend on the owner structures. In particular, engagement initiatives will need to be member-specific at the local, national, or regional level.

## 6.6. Future Work

As a general principle, embodied emissions (e.g. from retrofits) should be included in target setting considerations. However, the availability of consistent and reliable standards and data is currently very limited. This can make it difficult to include embodied emissions in the first round of targets for Real Estate. Embodied emissions calculations (methodology, estimations, etc.) will be discussed further before being included in any sort of Alliance target.

Exposure through real estate funds etc. will also be investigated in the future and addressed on the basis of its materiality among Alliance members.

### Consultation Questions:

11. Do you have suggestions for a minimum threshold of real estate assets covered which should be recommended?
12. If the Alliance member selects the second option for target setting (combination with other asset classes) normalisation could be carried out e.g. through CO<sub>2</sub>e/invested amount. If CO<sub>2</sub>e/invested is considered, definitions for application to real estate need to be clarified. It could also be CO<sub>2</sub>e/asset value (stock) which would thus reflect improvement achieved both through improvements of existing holding and virtuous new acquisitions. As it is a relative indicator based on monetary values there is a potential problem that overall performance varies if denominator increases or decreases without actual changes in emissions (i.e. real-world impact). Do you have relevant content for the alliance to consider?

# 7. T2 - Sector Targets

**When setting sector targets, Alliance members should set sector intensity-based targets for all Alliance priority sectors.** If a priority sector represents less than a significant part of the member's portfolio, a member can choose not to apply a target to this priority sector. However, in exercising this judgement, an Alliance member should employ the recommendations herein or explain the approach by which it should set and justify a threshold for not applying a sector target. The identified threshold for each sector should be commensurate with both the member's portfolio size and the portfolio emissions profile, in absolute and relative terms.

The guidance for sector targets has three main objectives to:

1. Define an average carbon reduction pathway for key high emitting sectors;
2. Inform our engagement efforts, identifying desirable emissions level outcomes; and
3. Inform portfolio construction, sectoral allocation and target setting at Alliance member-level.

## 7.1. Alliance priority sectors and link to engagement

**The Alliance will set sectoral targets in the first instance on Alliance priority sectors: (i) Energy, including Oil & Gas and Utilities; (ii) Transport (civil aviation, shipping and road); and (iii) Steel**

Sector targets enable Alliance members to enhance the link between overall (absolute) emissions reductions and sectoral efficiency gains. Sectoral targets track changes in the underlying holdings in line with a net-zero trajectory, frequently as a direct or indirect result of engagement and policy actions or investment decisions. This is done by tying emissions reductions in the overall portfolio to real economy sector emitters held in the portfolio. Sectors, particularly so called 'hard-to-abate' sectors given their various roles in achieving a net-zero economy, have different sequencing in their role in the transition and thus varying rates of decarbonization. Ultimately it would be ideal to have sector targets for all sectors. Since this is not possible within the given time frame, we have decided to start with some of the highest emitting sectors **which also aligns with engagement track efforts**. This list includes, but is not limited to:

- Oil & Gas
- Utilities, incl. coal (26-39% of global emissions)
- Transport
  - civil aviation (2-3% of global emissions)
  - shipping (2-3% of global emissions)
  - road transport (11-17% of global emissions)
- Steel manufacturing (5-7% of global emissions)<sup>39</sup>

The list of sectors will be extended in the future, focusing on high emitting sectors (e.g. cement,<sup>40</sup> aluminium, chemicals). It should be noted that transport is a large component of the Oil & Gas sector's Scope 3 emissions, and the Alliance views this 'value chain' approach as a first step towards tackling Oil & Gas Scope 3 emissions. See Annex II for the NACE/GICS/BICS classification codes and their association to the sectors named above. In the first instance, Alliance members who set sectoral targets should set them in line with the engagement priority sectors described above. Alliance members who wish to set targets on additional sectors, are encouraged to do so.

<sup>39</sup> Various sources including IPCC, WRI, and US Department of Energy

<sup>40</sup> The sectoral pathway for Cement is also available from the OECM. Alliance members who wish to do so are encouraged to set Cement sectoral targets.



## 7.2. How to set targets and scope of emissions

The global carbon budget<sup>41</sup> as referenced by the Alliance is the cumulative amount of GHG emissions permitted until the end of the century to keep within a 1.5°C threshold. The idea behind sector targets is to allocate the remaining carbon budget across economic sectors split by geographic locations until 2050 using a set of economic and technological assumptions compatible with a 1.5°C pathway.

It is difficult to make a causal link between asset owner engagement and the decarbonization of individual companies and sectors. Assessing the impacts of divestment on cost of capital for high emissions companies and associated emissions reductions is similarly hard to calculate. Given these challenges, in order to track decarbonisation progress across the investable universe the Alliance will track a constant, non-managed “representative” portfolio. The Alliance aims to start with the top 20 emitters from each of the priority sectors as part of a benchmarking exercise that will run in parallel with member actions.

## 7.3. Sector pathways (various models)

The sectoral targets are being set using scenarios and sector pathways modelled to align with a 1.5°C carbon budget. The modelling approach provides a translation of technology development and technology use into transition and decarbonisation pathways for economic sectors. The 1.5°C models explored include:

- i. One Earth Climate Model;
- ii. Investor Leadership Network pathways; and the
- iii. Cambridge E3ME.

The Alliance also examined the SBT 1.5C Power Pathway, and the IEA Well Below 2°C scenario, noting this is not a net-zero by 2050 scenario.

The pathways will be compared in order to establish a corridor of possible quantitative targets and will also be used to corroborate the portfolio target to make sure portfolio targets and sector targets are aligned and consistent.

It is challenging to identify multisector models which include information at the sector level which is granular enough for target setting purposes. We invite all respondents to this consultation to share information and comments on their preferred approach.

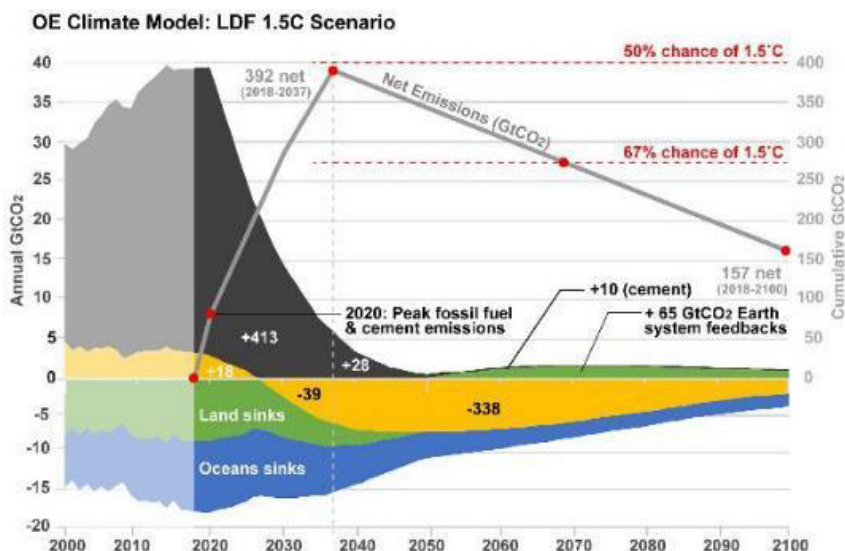
### 7.3.1. Model: One Earth Climate Model

Beginning Q1 2020 and following a period of consultation with various climate modelling organisations, the Alliance has collaborated with the University of Technology Sydney, Institute for Sustainable Futures’ OECM as the top-down/bottom-up model.<sup>42</sup> It will be used as a first reference case with which to set sector targets at five-year intervals to 2050 across all economic sectors and geographic regions.

The OECM shows the 1.5°C target can be achieved through a rapid transition to 100% renewables by 2050, with renewables needing to hit 56% of the global power generation mix by 2030 under the model. The shift to renewable energy will need to be coupled with a major conservation effort to increase the resilience of natural ecosystems and boost food security. This includes a moratorium on land conversions by 2030 and nearly 400 GtCO<sub>2</sub> of ‘emissions removed’ via afforestation and land restoration (shown in gold below the zero line), which pulls carbon dioxide out of the atmosphere and stores it in trees and the soil.

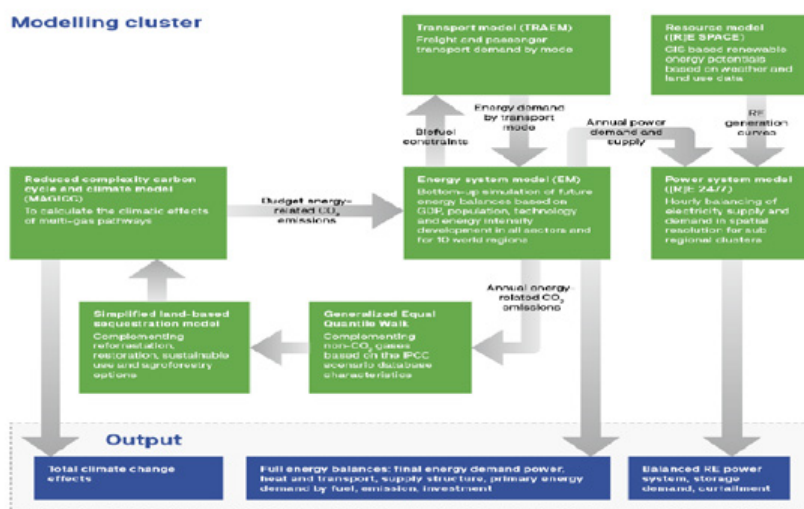
41 The IPCC special report Global Warming of 1.5°C (SR1.5) calls for a carbon budget of 400 GtCO<sub>2</sub> to maintain either a 50% or 66% chance of staying below the threshold of 1.5°C in global average temperature rise, adjusted to account for additional warming since the beginning of the industrial era (circa 1750).

42 (OECM report forthcoming)



The OECM is based on a modelling cluster that will provide sector specific 5-year targets compatible with a 1.5°C pathway. The model is based on the following assumptions:

- Development of a 100% renewable energy scenario
- De-carbonization of the entire global energy sector within one generation (until 2050).
- Based only on technologies currently available or under development, excluding BECCS, CCS and nuclear energy. Note that the exclusion of CCS technology from the OECM model used to set sector targets might differ from the approach by other organisations including the International Energy Agency.



The OECM-derived net-zero pathways for the Alliance have been peer reviewed by a number of climate modelling organisations including the Energy Transition Commission, Exponential Roadmap, Potsdam Institute for Climate Impact Research, Science Based Targets Initiative, CDP, and WWF.

### 7.3.2. Model: Investor Leadership Network (ILN) Sector Pathways

The ILN scenario is built on a bottom-up, sector-by-sector assessment of greenhouse gas emissions and abatement potential based on extensive industry insights gained through a consultative process. The analysis began with the status quo of each emissions source and the constraints of emission reduction forecasts by the IPCC. The researchers then applied ten levers across the economy in light of technology readiness, implementation constraints and regional variations. Most of the technologies considered in this analysis are commercially available; only a handful still require material R&D.

### 7.3.3. Model: Cambridge E3ME

The Cambridge Econometrics E3ME model is a leading macro-econometrics model for comprehensive economic modelling of policy and technology scenarios. The Cambridge Econometrics scenario set is based on implementation of low-carbon policies, technological developments and substitution away from fossil-fuels to cleaner energy sources and biofuels. The E3ME model includes a close integration of the world's energy systems and the environment with two-way linkages between each component. The model output includes sector CO<sub>2</sub> pathways covering the period 2020-2025 across multiple geographies.

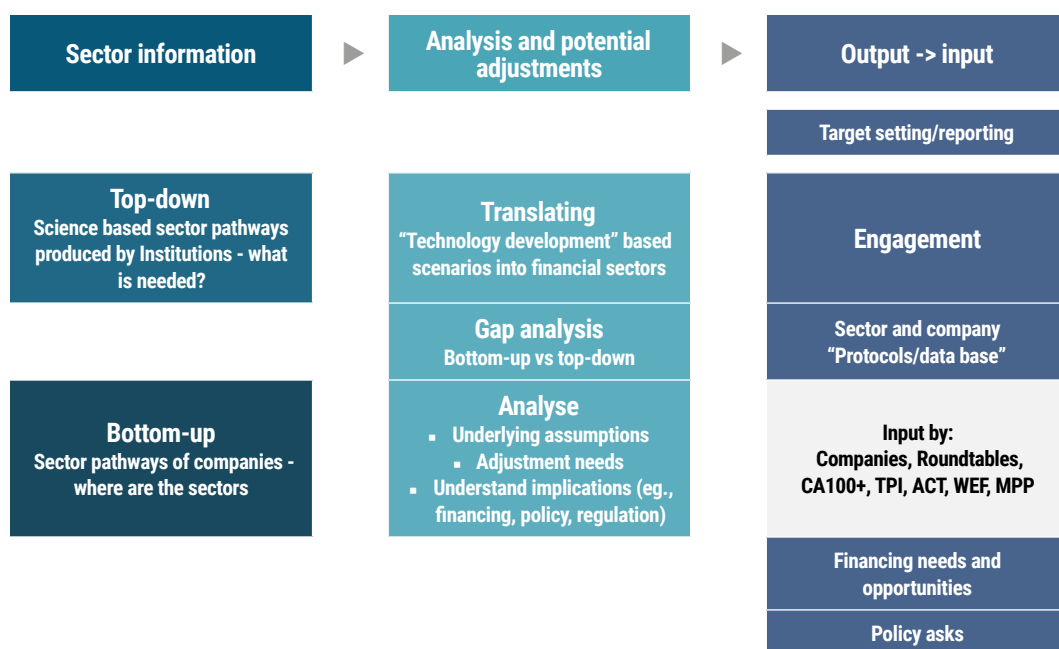
### 7.3.4. Other Models and Sector Pathways

We are also comparing the OECM 1.5°C transition pathway with the Transition Pathway Initiative (TPI) which is based on the IEA Well Below 2°C Scenario (~1.8°C).

### 7.3.5. Sectoral Intelligence received from Sector Participants

To reality check the top down sector pathways, the Alliance will also employ a bottom up approach. This includes, but is not limited to:

- **Sector dialogues:** As companies converge around intensity-based or CO<sub>2</sub> per production unit it is possible to begin to identify those who are 'on the mark' and those who fall short. Through sector dialogues, the "climate change sector leaders" will be used for reality checking the net-zero targets.<sup>43</sup>
- **Gap Analysis:** Transition Pathway Initiative (TPI) and other initiatives and data providers have collected targets for the high emitting sectors. This data will be used for a gap analysis where the selected high emitting sectors are today and will be compared to what science deems necessary to achieve net-zero pathways. The result will feed into sector, company and policy engagement.
- **Reference to other sector pathways:** Where sector pathways are not derived from an economy-wide model, but rather developed per sector, the Alliance will compare the individual sector pathways as well. For example, the Science Based Targets initiative has produced a 1.5°C pathway for the power sector. The results from these sector decarbonization pathways will be compared to the top down sector pathways 'corridor' derived from OECM, Cambridge E3ME, and ILN.



<sup>43</sup> Participation in WEF Mission Possible and Rocky Mountain Institute sector dialogues have been identified as one such avenue.

## 7.4. Challenges for asset owners when using these models for target setting

The OECM model provides sector decarbonization pathways for both total CO<sub>2</sub>e emissions on scope 1 and 2, and on a sector production specific level using an output intensity metric (see specific targets in the Appendix). The other models (ILN, E3ME) consist only of a decarbonization pathway for total CO<sub>2</sub> emissions per high emitting sector.

### 7.4.1. Product/Production specific sector targets

For Alliance members that have access to product/production specific data, it is recommended to use these metrics for sector target setting. This could for example be the amount of CO<sub>2</sub>e per ton of steel produced. Product/production is largely independent of economic variables such as revenue and have no market or price volatility, making it easy to track the real emission reductions in isolation and across companies within a sector on a like for like basis.

Data availability on a product/production specific level is known to be a challenge for some members in the short term. The Alliance believes that some product/production data will become available through implementation of the economic activity disclosures related to the EU taxonomy for example. In the meantime, the Alliance commits to play a role in making data accessible to the investment community through an open source data initiative taking place within 3 years.<sup>44</sup>

### 7.4.2. Carbon intensity-based sector targets

For Alliance members that do not have access to production level data, or can only source either unreliable or weak data at a product/production level, the Alliance suggests setting carbon intensity-based emission targets for the high emitting sectors instead, in line with OECM sector targets. This carbon intensity-based emission target can either be based on revenue or enterprise value. An intensity-based target should be used in conjunction with an absolute emissions target, to limit the risk of divestments as a means for reaching the sector targets and in order to stimulate emission reductions in the real economy.<sup>45</sup>

Since the sector decarbonization pathways that have been provided for the Alliance only includes Scope 1 and 2 data, **the recommendation is to set targets on Scope 1 and 2, as well as tracking and reporting on Scope 3 data.**

Scope 3 is especially material for the oil and gas sector as these are inputs for many industrial production processes. Initially, the Alliance will focus on the demand side, setting sector targets for the transportation and steel sector, and asset class targets for real estate. Due to data availability and lack of consistent metrics for Scope 3 within the oil and gas sector, we do not currently recommend setting carbon-intensity based Scope 3 sector targets for oil and gas in the short term. To ensure that we have better, comparable Scope 3 data for the next target setting period, the Alliance will work to clarify the definition of Scope 3 emissions and provide open source data for the largest oil and gas companies within 3 years.

For the automotive sector, Scope 3 emissions can be addressed through product specific targets, such as CO<sub>2</sub>e per km of produced automobiles.

## 7.5. Targets for Utilities

The Utilities sector covers emissions associated with the energy, transport, operations and maintenance of power/heat generating equipment and associated transport infrastructure (energy grid and pipeline infrastructure).

The Utilities sector, under the Alliance Protocol, includes the operation and maintenance of:

- Power plants/ co-generation plants
- Power grids (transmission to distribution)
- Energy service infrastructure e.g. smart grid storage
- Pipelines for gas transport

<sup>44</sup> OS-Climate has been identified as a possible entry point.

<sup>45</sup> Please refer to calculations in sub-portfolio chapter.

### Issues:

- One of the sectors with the most significant exposure to climate-related risks is utilities, as this sector lies at the core of the energy transition.
- Plans for phasing out coal and the need to meet emission reduction targets set are an example of potential transition risks.
- Reliance on coal is one of the key transition risks for electric utilities. Uncertainty remains about when and at what pace the coal-fired plants will be phased out.

### Way forward:

- Setting carbon emission reductions targets is a key area of engagement for investors with electric utilities.
- More transparency is needed on the retirement schedule of coal-fired plants (particularly on a national level) as the timing of this is important to understand the future financial impact on companies and the investments that will be needed to develop alternative generation sources. Retirement schedules should be aligned with scientific scenarios.<sup>46</sup>
- Speed of development of renewables and other low-emission energy sources sets the pace of the shift away from fossil fuels.
- New technologies and supporting infrastructure need to be developed to achieve carbon neutrality such as battery storage and smart grids.
- According to the International Renewable Energy Agency (IRENA), electricity could become the main energy carrier, growing from a 20% to a 50% share of global final consumption by 2050, with renewable power able to provide the bulk of global power demand.
- Supported by a conducive regulatory and economic context, coupled with strong customer demand evidenced by growth in power purchase agreements (PPAs), hydro, nuclear, wind and solar PV will be significant sources of emission-free electricity.
- Fossil fuel-based gas (and in the future green and blue gases), existing and emerging electricity storage forms and demand-side management may also play an important role in enabling the low-carbon transition, balancing the volatility of renewable energy.

## 7.6. Coal phase out

All Alliance targets should therefore be in line with IPCC Special Report on Global Warming of 1.5°C findings on coal. The Alliance has produced a Position Paper on Coal (publication pending) and target setting on utilities with reference to coal should conform with the guidance as indicated in the paper. The Alliance will allow for coal thresholds which are determined by either 'energy generated' or 'installed capacity'.

### 7.6.1. Examples of product/production targets

- t CO<sub>2</sub>e/MWh
- mio. t CO<sub>2</sub>/PJ

## 7.7. Targets for Oil & Gas

The oil and gas industry can be roughly broken down into three main segments: upstream, midstream and downstream. The Alliance sector metrics focus predominantly on upstream and downstream, as this is where the majority of emissions and mitigation actions are focused.

### Upstream

Upstream businesses are involved in exploring for oil and gas reservoirs, developing the sites and then extracting the fossil fuels. There is a high degree of collaboration across the industry. Many extraction projects are joint ventures between national oil companies (NOCs), who often control the rights to the largest reserves, and publicly listed oil companies (supermajors, majors and independents) who may have better access to technology or capital, as well as often owning downstream businesses that will receive and refine the products between partners. The NOCs account for ~80% of global oil and gas reserves; whilst they are often uninvestable on public markets they are vital to the energy transition.<sup>47</sup>

<sup>46</sup> Options derive from the forthcoming Alliance position paper on coal.

<sup>47</sup> The Alliance will consider mechanisms for understanding whether NOCs can be included in Sovereign Debt methodologies and to what extent they can be engaged.

## Midstream

Midstream businesses are responsible for moving extracted raw materials to refineries to process the oil and gas. They include shipping, trucking, pipelines, and storage operations. Whilst there are not insignificant emissions associated with these operations, ultimately decarbonisation of the energy sector will rely on the transformation of the upstream and downstream sectors.

## Downstream

Downstream businesses refine raw materials into products for sale, converting oil and gas to products such as gasoline, heating oil, lubricants and plastics. All the supermajors are integrated, meaning they have both upstream and downstream assets.

The sector has a range of climate and environmental problems, not least because the fossil fuels it produces, and that the global economy is dependent on, are one of the main global sources of GHGs. The sector itself must fundamentally transform if we are to achieve the goals of the Paris Agreement, with companies either winding down and returning value to shareholders or pivoting and driving the transition to a low carbon energy system. In a net-zero world only a small proportion of residual oil and gas demand will remain, as feedstock to various petrochemical products, or for use as fuels combined with CCUS or natural carbon sinks.

Especially notable climate-related issues are:

- Many companies continue to invest in the expansion of oil and gas production, locking them into assets that are incompatible with the goals of the Paris Agreement. This exposes them and shareholders to stranded asset risk, as well as continuing to emit at unsustainable rates. Supermajors (notably European supermajors) are starting to pivot their business models to become providers of low carbon energy, but the rest of the sector and NOCs must follow.
- Climate risk is inadequately priced into markets.

### 7.7.1. Examples of intensity Targets

- Operational carbon intensity (scopes 1 & 2);  $\text{mio.tCO}_2\text{e/PJ}$ 
  - TPI: <https://www.transitionpathwayinitiative.org/tpi/sectors/oil-gas>
  - Not currently split out, but should be available as part of the sub-metrics used to get the overall Carbon Performance score
- Portfolio carbon intensity (scopes 1,2 & 3);  $\text{tCO}_2\text{e/TJ}$ 
  - TPI: <https://www.transitionpathwayinitiative.org/tpi/sectors/oil-gas>
- Average methane intensity of aggregated upstream gas and oil operations; %
  - The methane intensity refers to the methane that gets lost in the atmosphere when producing oil and gas, as a percentage of the gas sold
  - IIGCC recently wrote to the EU pushing for a target of 0.25% intensity of upstream supply covering all gas sold in the EU by 2025, striving to achieve 0.2% where possible, as an interim objective on the pathway to net-zero emissions
  - Most O&G companies report on this, and Oil and Gas Climate Initiative (OGCI) members are also committed to reporting on average methane intensity
- Percentage of sanctioned/unsanctioned CAPEX outside 1.5°C Scenario; % of total Capex

Carbon Tracker have done initial analysis using IPCC's no-CCS 1.5°C scenario

## 7.8. Targets for Transport

The Transport Sector, under the Alliance Protocol, includes civil aviation, shipping and road transport. Civil aviation includes; passenger planes and airline services/airplane operation. Shipping includes; ships and shipping line services/ ship operation. Road transport includes; light and heavy-duty vehicles, car services/ car operations, and truck/bus services or operation.

### Issues:

- Transportation is responsible for as much as 24% of direct  $\text{CO}_2$  emissions from fuel combustion.
- As world urban populations grow demand for transport will increase.
- With the exception of the current year, emissions from aviation and shipping have recently been increasing at a faster rate than for any other transport mode. But energy demand and emissions have also continued to rise for all modes of road transport (cars, trucks, buses and two- and three-wheel vehicles). Increases have been particularly rapid in heavy-duty road



freight transport. As a result, the road share of total transport emissions has remained relatively stable at nearly three-quarters of total transport emissions since the turn of the century. This apparent lack of progress highlights the need for greater international policy focus on these hard-to-abate subsectors.

- Challenge is road transport emissions continued to increase despite progress in electrification: the number of electric cars on the world's roads exceeded 7 million in 2019, and fleets of electric buses and trucks are being procured in more and more cities around the world. Therefore, continued growth in emissions is due largely to:
  - Car buyers continue to purchase larger, heavier vehicles, not only in the United States but increasingly in Europe and Asia. This trend is common to all vehicle markets and has led to a slackening – or in some cases even reversal – of national rates of fuel consumption improvements. The worldwide market share of SUVs rose 15 percentage points between 2014 and 2019, to make up 40% of the global light-duty vehicle market. Shares in North America and Australia were particularly high, around 50%.
  - Rising global GDP in 2019, together with the proliferation of online commerce and rapid (i.e. same-day and next-day) delivery, which continues to raise road freight demand.
- Increasing demand for SUVs and for goods leads to greater freight transport activity.
- Global transport sector energy intensity (total energy consumption per unit of GDP) dropped by 2.3% in 2019 after falling an average 1.4% per year between 2000 and 2018. However, according to the International Energy Agency, the energy intensity (total energy consumption per unit of GDP) must drop by more than double the annual average rate of decrease since 2000 – to put transport efficiency on track with Sustainable Development Scenario (SDS).

#### Way forward:

- Transport sector is dependent on the ability of the *Energy* and *Utility* sector to provide sufficient amounts of renewable electricity, bio and synthetic fuels to supply airlines, shipping lines and road vehicles for passenger and freight transport.
- The key responsibility for the *Transport* sector is to move to electric vehicles, biofuels and renewable produced synthetic fuels. The manufacturer of road vehicles, planes and ships are required to phase-out internal combustion engines (ICE) over the next two decades.
- The market share of electric road vehicles – for passenger and freight transport – need to increase from currently around 2% globally to 30% by 2030. The increased electricity demand needs to come from renewable generated electricity.
- A rapid electrification of road transport fleets has crosscutting benefits for *Energy* and especially for the *Utility* sector as increased numbers of electric vehicles will come with higher storage capacities for electricity and significant demand side management possibilities to integrate high shares of variable solar and wind generation.

### 7.8.1. Examples of product/production targets

- g CO<sub>2</sub>/pkm
- MJ/pkm
- g CO<sub>2</sub>/tkm
- MJ/tkm

## 7.9. Targets for Steel

The Steel Sector covers steel manufacturing from mining to the product steel and doesn't take into account emissions from secondary steel products e.g. construction materials.

Steel manufacturing, under the Alliance Protocol, includes the following:

- Mining iron ore;
- Primary steel processes; and
- Manufacture of basic iron and steel

**Issues:**

- On average, 1.9 tonnes of CO<sub>2</sub> are emitted for every ton of steel produced. According to the International Energy Agency, the iron and steel industry accounts for approximately 5-7% of total world CO<sub>2</sub> emissions.
- As world population grows demand is only predicted to increase.
- Even though producers of steel develop a spectrum of new technologies from dealing with waste gases to rethinking core metallurgical equations experts say large-scale decarbonization of the industry remains decades away.
- Challenge is to deliver so-called “Green Steel” at a competitive price.
- In principle there are technology routes to lower emissions from steel making but society would have to accept higher cost of steel production.
- The biggest challenge is finding a less polluting way of extracting iron from its ore, as it involves the use of carbon for the chemical reaction that is required but hopefully one day hydrogen can be used instead.
- Challenge with hydrogen-based steel is that clean hydrogen production is expensive and would require a huge expansion of renewable energy generation capacity.

**Way forward:**

- To reduce the carbon footprint, we need to avoid CO<sub>2</sub> in the steel production by using either scrap or other reducing agents (e.g. gas based or hydrogen).
- Use end-of-pipe technology which is carbon storage or usage.
- A well-established alternative to blast furnaces is the electric arc furnace (EAF) that melt down scrap instead of using raw materials. EAFs are less expensive and pump out less CO<sub>2</sub> than blast furnaces they already account for about one quarter of global steel output.
- Some companies are trying to make hydrogen-based steel economically viable (e.g. Swedish Steel group SSAB is building a €150m pilot facility that would make it the first to manufacture the metal without fossil fuels)
- Ultra-Low CO<sub>2</sub> Steelmaking (ULCOS), a consortium formed by 48 European companies and 15 European organisations, is working on an R&D project that is focused on finding opportunities to produce steel using techniques that have at least a 50% reduction of CO<sub>2</sub> emissions.

### 7.9.1. Examples of product/production targets

- tCO<sub>2</sub>/ton steel

**Consultation Questions:**

13. The Alliance will seek to expand sector pathway coverage and is considering i) chemicals and ii) aluminium as next sectors. Do you agree with the prioritisation of these sectors? Please share any relevant sector pathway information.
14. Sector pathways can be defined based solely on modelled pathways from scientific providers within a low to no overshoot carbon budget or can be complemented with ‘bottom-up’ technology development pathways from industry insight that may rely on substantial negative emissions technologies, what is your opinion on the application/applicability of the two?
15. Do you agree with the suggestion to begin setting sector targets on Scope 1 and 2 (except for areas where Scope 3 is covered through product/production targets), while Scope 3 data becomes more readily availability and consistent?
16. Target metrics (e.g. tCO<sub>2</sub>/steel) are a work in progress for all sectors. Do you have suggestions for additional metrics?
17. Are there any sectors for which you believe the Alliance should not set targets? Why?
18. The Alliance is exploring treatment of tar sands, fracking, and methane leakage. Please provide any appropriate methodologies.

# 8. T3 – Engagement Targets

Alliance members have committed to “*engaging on corporate & industry action for a low-carbon transition of economic sectors, in line with science and under consideration of associated social impacts*” and to emphasising “*real world impact*”. Therefore, Engagement targets are perhaps the most important mechanism asset-owners have for contributing to a net-zero economy transition and should be set in conjunction with sub-portfolio and sector targets. **Engagement targets are, therefore, a necessary component of the target setting exercise for each Alliance member.**

To implement the net-zero engagement commitment, members can:

- participate in engagement activities that are jointly pursued through the Alliance engagement track (together with collaborating initiatives);
- and/or perform other engagement activities (in house or via other collaborations) that are aligned with the Alliance’s aim of driving companies to commit to net-zero greenhouse gas emissions across their value chains by no later than 2050.<sup>48</sup>

These individual and joint engagement activities can take four different forms:

- Corporate engagement with a company, notably in the framework of the CA100+ initiative;
- Sector and value chain engagement, engaging simultaneously with numerous companies from the same sector or value chain;
- Publishing position papers on an issue or sector, which can be used to anchor and leverage Net-Zero engagement activities;
- Engaging with Asset manager, to evaluate their efforts to understand and manage the risks of climate change, while also taking action to influence transformational activities in climate change mitigation in line with the long-term interests of their customers.

These engagement **activities seek to achieve a common outcome**:

- Alliance engagement “statement of intent” is to increase, over time, the percentage of portfolio companies that are aligned with the Alliance’s corporate net-zero expectations.
- For simplicity’s sake, this outcome is approached using a “portfolio coverage science-based target”, irrespective of responsibilities for this outcome.
- In addition, the Alliance is also:
  - considering the development, over time, of more granular KPIs for assessing portfolio progress; and
  - monitoring and advocating for the development of scalable methodologies and guidelines for attributing engagement outcomes.
- With that aim in mind, indicators are being developed by each engagement stream to enable members to refine their monitoring of engagement outcomes, and that of the Alliance as a whole. These indicators and guidelines will be refined and tested, over time and in relationship with industry frameworks (e.g. PRI reporting framework, CA100+ reports, IFC Operating Principles for Impact Management), regulatory frameworks (e.g. EU ecolabel and other RI labelling schemes or rules), and academic guidance. Developing the ability to robustly forecast these KPIs would then be critical to extending the use of these indicators from a monitoring purpose to a target setting purpose.

<sup>48</sup> For a detailed view of Alliance members’ corporate net-zero expectations, please refer to the engagement track strategy paper.

## **To define their 2025 engagement target(s), individual Alliance members should:**

First, Alliance members should identify either the Top 20 non-aligned<sup>49</sup> emitters or those responsible for 65% of emissions in a corporate bond/equity portfolio and set either Direct, Collective, or Asset Manager action targets accordingly to engage the identified set of emitters/emissions.

Then, Alliance members should

- select from one up to four contributions to net-zero engagement activities that are most relevant for their engagement activities, style and resources; and
- define their own outcome based KPI from the common KPI framework below.

## **8.1. Engagement KPIs:**

### **8.1.1. KPIs linked to Alliance member contribution to joint Alliance engagement activities**

#### **Corporate engagement contributions:**

**Number of additional CA 100+ engagement supported by the member through Alliance**

- **Background.** This KPI aims to capture the additionality of the Alliance membership to the CA100+ initiative.
- **Definition.** Additional engagements include staffing by Alliance members to understaffed CA100+ engagement flagged by the Alliance or taking leadership on CA100+ company engagements that are lacking a leader. A list of these companies can be provided by the engagement track. Pre-existing CA100+ engagement activities should not be included.

#### **Sector engagement contributions:**

**Number of contributions to sector engagement activities developed under the Alliance**

- **Background.** This KPI aims to capture the additionality of the Alliance membership to joint sector engagement activities.
- **Definition.** Sector engagement activities include contributing to the definition, by the Alliance of a sector engagement protocol (i.e. establishing the asks) and contributing to the roundtable co-organized by the Alliance on a sector.

**Note.** During the 2020-2025 target setting period, the track will cover the following sectors: Oil & Gas, Transport, Utilities, Steel, Cement, Consumer Goods, and Chemicals. This will start by initiating roundtables on Freight Trucks, Automotive, Aviation Shipping, Steel, and Utilities.

#### **Asset management engagement contributions:**

**Number of AM engaged on climate change policies and practices through the Alliance**

- **Background.** This KPI aims to capture the additionality of the Alliance membership to joint asset management engagement activities.
- **Definition.** The Alliance member expected contribution to the AM engagement process is defined in a forthcoming alliance position paper.

**Note.** Engagement is to be prioritised by the track during the target setting period and it will include the four largest asset managers by AUM.

#### **Position papers engagement contributions:**

**Number of contributions to Alliance position papers**

- **Background.** This KPI aims to capture the additionality of the Alliance membership to joint publication of position papers.
- **Definition.** Contribution to a position paper is defined as the material participation to its development through the engagement track.

**Note.** It is estimated that the track will produce 2-3 positions per year, beginning with Coal, integration of climate change in International Accounting Standard, Oil Sands, Arctic, Deforestation and negative emissions technology (CCS, offset markets).

<sup>49</sup> Non-aligned refers to those which do not already have Paris Aligned commitments, or do not have a concrete set of mid-term reduction targets. Alignment with PAII or CA100+ benchmarking criteria is encouraged.

## 8.1.2. KPIs linked to Alliance member engagement activities that contribute to achieving net-zero commitments

### Corporate engagement contributions:

Number of corporate engagements aligned with the Alliance's net-zero corporate expectations led or supported (directly or by explicit ask given to an AM).

- **Background.** This KPI aims to capture all bilateral corporate engagement activities that contribute to more companies implementing the Alliance net-zero corporate expectations.
- **Definition.** The net-zero corporate expectations are defined in the Alliance engagement strategy and will be further circulated in a standalone document. Engagements that do not meet this level of ambition should not be included. Engagement performed through the Alliance can be included.

**Note.** The Alliance does not prescribe a modus operandi for member's engagement but will be seeking to remain aligned with PRI reporting framework for accounting on engagement activities.

### Sector engagement contributions:

Number of contributions to sector engagement activities

- **Background.** This KPI aims to capture a member's contribution to all sector engagement activities.
- **Definition.** Sector engagement activities include the definition of a sector engagement protocol (individually or via other initiatives), or the participation in a sector roundtable (individually or via other initiatives). Engagement performed through the Alliance can be included.

**Note.** Members are encouraged to seek synergies between activities jointly led in the track and other individual or collaborative initiatives.

### Asset management engagement contributions:

Number of asset managers engaged on climate change policies and practices in line with Alliance AM expectations

- **Background.** This KPI aims to capture a member's engagement activities with asset managers that are aligned with the Alliance AM expectations.
- **Definition.** The Alliance AM expectations are defined in a forthcoming Alliance position paper. Engagement performed through the Alliance can be included.

### Position papers engagement contributions:

Number climate position papers published in line with Alliance corporate expectations

- **Background.** This KPI aims to capture a member's contribution to building reference climate positions.
- **Definition.** Position papers are public documents which define either independently or through collaborations, the member's position on topics (i.e. that encompass multiple corporates and may have policy implications) of key relevance to the net-zero agenda. The positions must include a clear reference to the net-zero/1.5°C goal. The positions that a member has co-authored through the Alliance can be included.

### 8.1.3. Cross-cutting outcome (optional for target setting, compulsory to report on for a 5-year stock take)

#### Engagement contributions:

##### Portfolio science-based target<sup>50</sup> coverage in key Alliance sectors

- **Background.** This KPI aims to capture progress over time and scale on the outcome of engagement activities, i.e. a growing implementation by portfolio companies, of the net-zero corporate expectations.

**Note.** The Engagement Track of the Alliance has defined its consolidated activity targets for 2020 and will proceed to defining an annual roadmap and targets. Engagement activities are also integrated into the reporting framework. The general reporting framework architecture is summarized below. Each member can decide to report on multiple KPIs identified in the engagement framework above, while setting targets on a more limited number of KPIs.

1. individual target-setting, monitoring and reporting by a member (asset owner),
2. consolidated target setting, monitoring and reporting by the Alliance

#### Consultation Questions:

19. Do you have further suggestions on the Alliance's engagement target setting approach?

<sup>50</sup> Science based targets as verified by the SBTi initiative as well as corporate targets that can be shown to be based in scientific scenarios will be accepted (reference to appropriate sector pathways should be included in the latter case). Verified targets are encouraged.



# 9. T4 - Financing Transition Targets

The Alliance Financing Transition Track focuses on enhancing the supply side of climate solution investments in general but also specifically in the Alliance members' investment portfolios.

To enable consistent reporting within across the Alliance membership, a definition for "Climate Solution Investments" has been created taking into account publicly available definitions:

*Investments in economic activities **considered to contribute substantially to climate change mitigation** (solutions substantially reducing greenhouse gases by avoiding emissions and/or by sequestering carbon dioxide already in the atmosphere), or **climate change adaptation** (where that activity substantially contributes to enhancing adaptive capacity, strengthening resilience and reducing vulnerability to climate change).*

Asset Owners have a fiduciary responsibility to seek the maximum risk-adjusted returns on their investments. This means, among other criteria, that no investments in the green transition and climate solutions should be conducted if they are expected to give a loss or perform significantly worse than other investments, on an expected risk-adjusted return basis. The Alliance therefore strives to collaborate with public finance institutions such as DFIs and to support policy work on blended finance, de-risking and enlarging the supply side of investable climate solutions.

## 9.1. Scope of Financing Transition Track

Main goals of the track

- Enhance the supply side by
  - Providing more transparency via screening existing platforms and vehicles
  - Work together on building new vehicles together with DFIs, governments and asset managers
- Build up Sector and Asset Class expertise on
  - New technologies
  - Understand financial needs per sector
  - Analyse and work on de-risking together with the other Alliance tracks
  - Foster knowledge and opportunity sharing

Working together with sectors, the other Alliance tracks and other initiatives (eg. WEF, ETC, RMI, etc) and / or facilitating round tables
- Alongside decarbonizing Alliance member investment portfolios, investments in climate solution investments need to grow. The target is to report on this progress.

## 9.2. Financing Transition Targets

Financing Transition Targets ensure that Alliance members use the resources and capacities available to them to grow the supply side of net-zero solutions, particularly Alliance members should explore supporting the growth of Green Buildings, Renewable Energy in Emerging Markets, Sustainable Forestry, Hydrogen development, among others.

In general, the financing transition track targets are two-fold. On the one hand Alliance members want to measure and report on progress in our portfolios and at the same time members want to enlarge the universe and build solutions.

## Financing transition - Target setting

<b>Targets</b>	<ol style="list-style-type: none"> <li><b>1. Report on progress on a climate-positive trend</b> (without a specific quantitative progress target)</li> <li><b>2. Number of contributionf to activities enlarging the universe and building solutions</b> eg., dialogues with DFIs building, conducting round tables increasing the supply side of low carbon investments</li> </ol>
<b>Level of target setting</b>	<ul style="list-style-type: none"> <li>■ <b>On AOA level</b> for external publication</li> <li>■ Internal yearly AOs individual reporting for information, tracking and consolidation</li> </ul>
<b>Reporting on progress...*</b>  *details to be discussed	<ul style="list-style-type: none"> <li>■ Invested/committed value in climate solution investments</li> <li>■ Avoided emissins (as data availability and quality allows)</li> <li>■ Portfolio revenue share in green/brown activities respectively EU taxonomy compliant</li> </ul> Report on OECD and non OECD countries

### 9.2.1. Alliance Collective Reporting on Progress Target

Target the public reporting on Financing Transition will be aggregated at the level of the entire Alliance level. If desired, members are free to report individually to the public.

**It is required that all Alliance members individually contribute to the overall collective targets.**

Alliance members are asked to report their investments in a common set-up so the Alliance can aggregate and publish totals. Members decide whether their individual figures can be published by the Alliance. For the time being, the Alliance will report on progress on a climate-positive trend – without a specific numerical progress target.

Common reporting on positive trends may include:

- *invested/committed value* in climate solution investments e.g. green buildings, renewable energy, carbon sinks to *remove* greenhouse gasses (GHGs) from the atmosphere (Carbon Dioxide Removal) or “net-negative emissions”
- *associated emissions avoided* (as data availability and quality allows)
- *revenue share in “green/brown” activities respectively EU taxonomy compliant reporting* (as data availability and quality allows)

Reporting will cover information on OECD and non-OECD countries. Further details are under development.

Trends in brown/green assets along with the EU taxonomy will also be of interest going forward. For clarity, here we are considering the portfolio revenue share from green/grey/brown activities. The “climate positive trend” then being a flow of revenue share from brown to green. This would be built up to a company and/or sector value from a granular level.

For example, a bank’s revenue is, in the first order, not directly linked with green or brown activities by any common definition. However, an important part of the Protocol may be the second-order revenue exposure, where the activity classification of the activities financed by the bank loan book is carried through to represent the bank’s green/brown revenue attribution.

The attractiveness of this approach is that it can be implemented using data from major providers, and not only captures portfolio construction choices (to allocate to obviously green assets/projects) but also captures the outcomes of successful engagement to transition firms’ activities.

## 9.3. Enlarging the universe and building solutions Target

### 9.3.1. Key Metrics

**With a focus to enlarge geographic-coverage and upscale new (but mostly known) technologies, the Alliance should conduct at least 3–5 annual roundtables on a sector or asset class basis by 2025.**

In a first step, the Alliance will determine which asset classes are the most promising for financing transition and focus further work on providing ways to help overcome current barriers, bring the relevant stakeholders to the table and help scale up investment opportunities in those areas.

The **work on selected asset classes/sectors** includes, but is not limited to, conducting at least 3-5 annual roundtables based on sector/asset class, **by 2025. The purpose of these roundtables is** to connect stakeholders who can work on solutions that increase the supply side of low carbon investments. Beyond the roundtables, further work will be done on deep dives into the value chain and identifying stakeholders.

Collaboration with the Engagement Track on Sector Roundtables will enable a more cohesive and coherent approach across the Alliance membership.

New technologies need to be scaled in order to decarbonize sectors like heavy transport, aviation, shipping, cement and steel production that cannot yet be fully electrified. On a technical level PTX and E-fuels (hydrogen, methanol, ammonia) and CCS/CCUS are known technologies that have not yet been deployed at scale. This also means that the most economically efficient solutions for decarbonising high emitting sectors have not yet emerged.

Identified solutions and investment opportunities in new technologies and their upscaling will be displayed in a digital map providing investor relevant information in an open-source manner. This digital map will be hosted by the Alliance, with reference to available information and sources to deepen the investors' knowledge.

#### **Establish working relationship with 5 DFIs or other partners by 2025**

The Alliance will establish working relationships with 5 DFIs or other partners by 2025 to enlarge geographical coverage. The focus will be on establishing partnerships to help create investment opportunities with acceptable risk profiles.

While renewable energy infrastructure is on the rise in most OECD-economies due to favourable cost developments, capacity building in Emerging Markets and less developed countries is still limited. Huge gains can be achieved by transferring well-known solutions to EM's but political conditions and financial risk premiums are barriers that have to be addressed. Collaboration with DFIs is a way to create partnerships that can help overcome these barriers.

The Alliance will list and create engagements with key players, including OECD-DAC, Governments, EDFI and World Bank Group institutions as well as private sector initiatives to mitigate risks associated with investments in non-OECD economies.

#### **Consultation Questions:**

20. Do you agree with the definition of Climate Solution Investments? If not, please suggest an alternative.
21. What are other relevant and evolving technologies that should be mentioned in the digital map?
22. Are there other measures of impact such as avoided emissions (scope 4) or off-setting emissions you would like to suggest?
23. Do you find the geographic dichotomy in OECD/Non-OECD countries appropriate?
24. Do you have suggestions on how the Alliance should interface with other initiatives outside the Alliance?
25. What other public institutions should the Alliance seek to establish partnerships with?
26. Note, the Alliance has solicited advice from Green Bond Principles and PCAF on the treatment emission accounting for green bonds (which aim to finance net-zero projects). The Alliance aims to include guidance on emissions accounting for such bonds in future versions of the Protocol. Please provide any guidance you would have the Alliance consider.

# 10. Policy Engagement

The Alliance is committed to policy advocacy as a necessary means to achieve net-zero by 2050. Individual members are encouraged to engage their domestic governments to increase ambition on decarbonisation. New Alliance members are encouraged from all geographies and in time the Alliance membership will be truly global in its geographic coverage. The Alliance policy track has developed a strategy to work on these three priorities:

1. Embedding net-zero by 2050 in the economic recovery, NDCs and national emission reduction plans
2. Sector policies to promote transition
3. Promotion of mandatory climate reporting and transition plans

To this end, the Alliance will directly engage policy-makers and regulators, partake in regulatory consultations, write private and public letters as well as joint statements, develop position papers and leverage international platforms like the WEF, the International Climate Policy Hub, the Investor Agenda and its constituent institutions, the Coalition of Finance Minister for Climate Action and others.

In the execution of this strategy the track will leverage policy and regulatory messages developed in the other tracks, e.g. MRV where it relates to disclosure recommendations, or engagement where it relates to sectoral policy barriers.

The overarching aim of the policy track is to seek public policy consistent with the achievement of global net-zero emissions by 2050 and the realisation of the goals of the Paris Agreement. Without public policy properly to implement the Paris Agreement, Alliance members will be unable to achieve their goal of net-zero portfolio emissions by 2050.

## 10.1. Embedding net-zero by 2050 in the economic recovery, NDCs and national emission reduction plans

The coronavirus pandemic has upended financial markets, government spending plans as well as delivering a profound economic shock. The imperative to manage the crisis and provide relief has knocked climate change off the agenda of governments and markets. Yet the threat to the planet remains and once there is evidence that efforts to control the virus are taking hold, the focus will once again shift to resilience and recovery. Ensuring that planning for net-zero is at the heart of efforts to repair economies are a high priority.

The new round of NDC submissions required under the Paris Agreement this year is a potential catalyst for enhanced commitments and emission reduction plans consistent with the goals of the Paris Agreement and net-zero emissions by 2050. Maximizing this opportunity is a key goal for the policy track.

### 10.1.1. Targeted Asks

- a. Embedding climate goals at the heart of economic recovery plans
- b. Commitment to enhance current NDCs with 2025 and 2030 targets that are in line with a trajectory to achieve net-zero GHGs by 2050 or sooner from developed countries
- c. Implement net-zero commitments and trajectories via best practice national policy mechanisms, including: climate legislation enshrining the net-zero commitment; intermediate targets; an independent body to monitor and advise government; and appropriate carbon pricing regimes.

## 10.2. Sector policies to promote transition

Sector policies are a key component of effective climate policy, and the Alliance will advocate for sector policies consistent with net-zero emissions by 2050 or sooner from developed and large emitter countries.

### 10.2.1. Targeted Asks

- a. Elimination of direct and indirect fossil fuel subsidies
- b. Policy measures (via regulation or carbon pricing or both) to deliver the national phase-out of fossil fuel technologies e.g. coal-fired power and coal mining, sale of new internal combustion engine vehicles
- c. No deforestation, no peat, no exploitation policies<sup>51</sup> (NDPE)
- d. Support for afforestation and enhancement of natural capital, and a net-zero pathway for agriculture
- e. Support for and potentially redirecting of subsidies for scale-up of new technologies that will provide solutions in hard to abate sectors, e.g. CCS, green hydrogen
- f. Sectoral net-zero policies for key economic sectors: energy, power, industry, agriculture, automotive, aviation and shipping
- g. Commitment to develop granular short, medium and long term zero carbon infrastructure plans.

## 10.3. Promotion of mandatory climate reporting and transition plans

Support the COP 26 presidency, provide investor support for mandatory TCFD reporting and net-zero transition plans in advanced markets by COP 26.

### 10.3.1. Policy track working methods

The policy track will operate primarily through:

- a. Direct engagement with politicians / officials of target countries
- b. Private letter writing to officials from alliance members
- c. Attendance at UNFCCC talks in Bonn and Glasgow
- d. Leveraging UN platforms (e.g. UNSC office, the Coalition of Finance Ministers for Climate Action) and key moments\* (e.g. World Bank meeting, London & NY Climate Action Weeks, Petersberg Dialogue, EU-China Summit, PRI in Person, Japan TCFD summit, IMF annual meeting). \*At least some of these events may be rescheduled due to travel restrictions resulting from the coronavirus.
- e. Mobilising Alliance members to sign appropriate investor statements
- f. Letter writing to target countries or multilateral fora
- g. Media activities

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<sup>51</sup> Refers to no exploitation of the rights of indigenous peoples, workers and local communities.

## 10.4. Policy track partnerships

The policy track will work in close partnership with the British Government's COP26 unit so that investor influence is deployed appropriately with the Presidency's target countries alongside diplomatic and political influence. Working with Mark Carney, as Finance Adviser for COP26, as well as the wider Finance Theme team, will be particularly important.

The Alliance's relationship with the European Commission and Parliament, and leading EU member states, will also be important given the EU's climate leadership and shared agenda, and the predominance of major European asset owners among the Alliance's current membership. The policy track will leverage output from other tracks (notably MRV and engagement) as well as PRI's climate policy programme to develop a specific and targeted set of policy asks.

The Alliance will work in coordination with the Investor Agenda, whose policy working group activities are led by IIGCC and the Investor Group on Climate Change (IGCC). The goal will be to maintain a consistency of investor asks and to ensure that target countries are covered by in-person engagement by either the Investor Agenda and/or Alliance.

### **Consultation Questions:**

27. General comments accepted.



# 11. Alliance Recruitment Targets

**The target is to achieve steady growth, reaching 200 members or USD25tn by 2025, for the full member category.**

The target of the Alliance is to continue to grow in AUM, membership, and regional representation to achieve high impact in the Alliance ambition for a net-zero economy by 2050. The more assets under management is linked to a net-zero target the higher the real-world impact. The more assets owners are active within the Alliance, the higher the impact in local and global markets, sector dialogues and political debate and developments to drive the net-zero ambition.

The recruitment target is achieved by:

- Alliance members support outreach (all types), especially within their region
- Identifying strategic opportunities e.g. in conferences, events, etc.
- C-suite relationships
- Arranging bilateral meetings at key events
- Support by the Alliance Scientific Advisory Committee (currently WWF and M2020)
- Support of the PRI signatory relations team

The target is to achieve steady growth, reaching 200 members or USD25tn by 2025 for the full member category. In its first year,<sup>52</sup> the Alliance experienced a 140% increase in membership.

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<sup>52</sup> Inception of Alliance September 2019 to September 2020.

# 12. Reporting on Annual Progress and 5-year Targets

Reporting on progress is firmly rooted in the Commitment of the Alliance. For the Alliance and its members, it is important to publicly and transparently communicate on progress both individually and collectively. Members have committed to publish targets and report on progress in line with Article 4.9 of the Paris Agreement. This reflects Alliance's objective of reporting progress to the private sector, and particularly owners of capital, so that this progress can be taken forward together. Transparency on progress is also relevant for other stakeholders, such as companies held in the portfolio of Alliance members, the clients of institutional investors as well as the general public, recognizing that climate change is a challenge that confronts us all. To this end the Alliance has worked through its inaugural year to establish a well-structured reporting framework, which will enable investors to report on the set targets as well as to disclose their progress to the Alliance.

The Alliance will issue an annual progress report which will base on the Alliance's member reporting to cover progress to date. Additional information included in the report will be about governance; membership growth; progress from all 'working group' tracks, including references and updates to the Alliance 2025 Target Setting Protocol. Furthermore, the Alliance will report on its engagement progress with collaborative initiatives, asset managers, corporates as well as policy-makers; and provide an overview related to financing the transition.

The inaugural annual report will also include 2025 targets and thought leadership contributions ahead of the COP26. The 2025 targets will be presented in the metrics and formats identified throughout this document.

## Consultation Questions:

28. General comments accepted

# 13. Annex – Financial Sector Classifications

OIL & GAS		
Proposal Financial Sector - Energy and O&G		
NACE	B - Mining and quarrying	B5 - Mining of coal and lignite
		B6 - Extraction of crude petroleum and natural gas
		B7 - Mining of metal ores
		B8 - Other mining and quarrying
		B9 - Mining support service activities
BICS - Bloomberg	Energy	Coal
		Oil & Gas
		Oil Comp-Explor&Prodtn
		Oil Comp-Integrated
		Oil Refining&Marketing
		Oil&Gas Drilling
		Oil-US Royalty Trusts
		Oil&Gas Services
GICS - S&P and MSCI	Energy	Pipelines
		Renewables
		Energy Equipment & Services
		Oil & Gas Drilling
		Oil & Gas Equipment & Services
		Oil, Gas & Consumable Fuels
		Integrated Oil & Gas
		Oil & Gas Exploration & Production
		Oil & Gas Refining & Marketing
		Oil & Gas Storage & Transportation
		Coal & Consumable Fuels

## UTILITIES

Proposal Financial Sector - Utilities / Electric Generation and Distribution and Gas distribution

<b>NACE</b>	D - Electricity, gas, steam and air conditioning supply	D35 - Electricity, gas, steam and air conditioning supply
		D35.1 - Electric power generation, transmission and distribution
		D35.1.1 - Production of electricity
		D35.1.2 - Transmission of electricity
		D35.1.3 - Distribution of electricity
		D35.1.4 - Trade of electricity
		D35.2 - Manufacture of gas; distribution of gaseous fuels through mains
		D35.2.1 - Manufacture of gas
		D35.2.2 - Distribution of gaseous fuels through mains
		D35.2.3 - Trade of gas through mains
		D35.3 - Steam and air conditioning supply
		D35.3.0 - Steam and air conditioning supply
<b>BICS - Bloomberg</b>	Utilities	Electric
		Distribution
		Generation
		Integrated
		Transmission
		Independent Power Producer
		Gas
		Distribution
		Transportation
		Water
		Water
<b>GICS - S&amp;P and MSCI</b>	Utilities	Electric Utilities
		Companies that produce or distribute electricity. Includes both nuclear and non-nuclear facilities.
		Gas Utilities
		Companies whose main charter is to distribute and transmit natural and manufactured gas. Excludes companies primarily involved in gas exploration or production classified in the Oil & Gas Exploration & Production Sub-Industry. Also excludes companies engaged in the storage and/or transportation of oil, gas, and/or refined products classified in the Oil & Gas Storage & Transportation Sub-Industry.
		Multi-Utilities
		Water Utilities
		Independent Power and Renewable Electricity Producers
		Companies that operate as Independent Power Producers (IPPs), Gas & Power Marketing & Trading Specialists and/or Integrated Energy Merchants. Excludes producers of electricity using renewable sources, such as solar power, hydropower, and wind power. Also excludes electric transmission companies and utility distribution companies classified in the Electric Utilities Sub-Industry.
		Renewable Electricity
		Companies that engage in the generation and distribution of electricity using renewable sources, including, but not limited to, companies that produce electricity using biomass, geothermal energy, solar energy, hydropower, and wind power. Excludes companies manufacturing capital equipment used to generate electricity using renewable sources, such as manufacturers of solar power systems, installers of photovoltaic cells, and companies involved in the provision of technology, components, and services mainly to this market.

## TRANSPORT

Proposal Financial Sector - Transportation / Airlines, Transportation / Light and Heavy Road Transport, Transportation / Shipping

NACE	H - Transporting and storage	H49 - Land transport and transport via pipelines			
		H50 - Water transport			
		H51 - Air transport			
		H52 - Warehousing and support activities for transportation			
		H53 - Postal and courier activities			
	C - Manufacturing	C29 - Manufacture of motor vehicles, trailers and semi-trailers	C30.2 - Manufacture of railway locomotives and rolling stock		
		C29.1 - Manufacture of motor vehicles	C30.2.0 - Manufacture of railway locomotives and rolling stock		
		C29.1.0 - Manufacture of motor vehicles	C30.3 - Manufacture of air and spacecraft and related machinery		
		C29.2 - Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers	C30.3.0 - Manufacture of air and spacecraft and related machinery		
		C29.2.0 - Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers	C30.4 - Manufacture of military fighting vehicles		
		C29.3 - Manufacture of parts and accessories for motor vehicles	C30.4.0 - Manufacture of military fighting vehicles		
		C29.3.1 - Manufacture of electrical and electronic equipment for motor vehicles	C30.9 - Manufacture of transport equipment n.e.c.		
		C29.3.2 - Manufacture of other parts and accessories for motor vehicles	C30.9.1 - Manufacture of motorcycles		
		C30 - Manufacture of other transport equipment	C30.9.2 - Manufacture of bicycles and invalid carriages		
		C30.1 - Building of ships and boats	C30.9.9 - Manufacture of other transport equipment n.e.c.		
		C30.1.1 - Building of ships and floating structures			
		C30.1.2 - Building of pleasure and sporting boats			
		BICS - Bloomberg	Consumer, Cyclical	Airlines	
				Airlines	
Auto Manufacturers					
Auto-Cars/Light Trucks					
Auto-Med&Heavy Duty Trks					
Auto-Truck Trailers					
Auto Parts&Equipment					
Auto/Trk Prts&Equip-Orig					
Auto/Trk Prts&Equip-Repl					
N/A					
Rubber-Tires					
Home Builders					
Bldg-Mobil Home/Mfd Hous					
Bldg-Residential/Commer					
Retail					
Textiles					

	Industrial	Aerospace/Defense	Transportation		
		Building Materials	Transport-Air Freight		
		Electrical Compo&Equip	Transport-Marine		
		Electronics	Transport-Rail		
		Engineering&Construction	Transport-Services		
		Environmental Control	Transport-Truck		
		Hand/Machine Tools	Trucking&Leasing		
		Machinery-Constr&Mining	Transport-Equip&Leasng		
		Machinery-Diversified	Trucking&Leasing		
		Metal Fabricate/Hardware			
		Miscellaneous Manufactur			
		Packaging&Containers			
		Shipbuilding			
		GICS - S&P and MSCI	Transportation	Air Freight & Logistics	
				Airlines	
Marine					
Companies providing goods or passenger maritime transportation. Excludes cruise-ships classified in the Hotels, Resorts & Cruise Lines Sub-Industry.					
Road & Rail					
Railroads					
Trucking					
Transportation Infrastructure					
Airport Services					
Highways & Railtracks					
Marine Ports & Services					

CEMENT			
Proposal Financial Sector - Materials / Cement			
NACE	C - Manufacturing	C23.5 - Manufacture of cement, lime and plaster	C23.6.5 - Manufacture of fibre cement
		C23.5.1 - Manufacture of cement	C23.6.9 - Manufacture of other articles of concrete, plaster and cement
		C23.5.2 - Manufacture of lime and plaster	C23.7 - Cutting, shaping and finishing of stone
		C23.6 - Manufacture of articles of concrete, cement and plaster	C23.7.0 - Cutting, shaping and finishing of stone
		C23.6.1 - Manufacture of concrete products for construction purposes	C23.9 - Manufacture of abrasive products and non-metallic mineral products n.e.c.
		C23.6.2 - Manufacture of plaster products for construction purposes	C23.9.1 - Production of abrasive products
		C23.6.3 - Manufacture of ready-mixed concrete	C23.9.9 - Manufacture of other non-metallic mineral products n.e.c.
		C23.6.4 - Manufacture of mortars	C24 - Manufacture of basic metals
BICS - Bloomberg	Industrial	Building Materials	
		Bldg Prod-Air&Heating	
		Bldg Prod-Cement/Aggreg	
		Bldg Prod-Doors&Windows	
		Bldg Prod-Light Fixtures	
		Bldg Prod-Wood	
		Bldg&Construct Prod-Misc	
GICS - S&P and MSCI	Materials	Ceramic Products	
		Construction Materials	
		Construction Materials	



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For more information please visit our website:  
[unepfi.org/net-zero-alliance](https://unepfi.org/net-zero-alliance)

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