



# Greenhouse Gas Protocol Land Sector and Removals Initiative

**Project Overview** 

# **1** Project Overview

The Greenhouse Gas Protocol (GHG Protocol) is a multi-stakeholder partnership of businesses, non-governmental organizations (NGOs), governments, and others convened by the World Resources Institute (WRI) and the World Business Council for Sustainable Development (WBCSD). Launched in 1998, the mission of the GHG Protocol is to develop internationally accepted greenhouse gas (GHG) accounting and reporting standards and tools, and to promote their adoption in order to achieve a low emissions economy worldwide.

The Greenhouse Gas Protocol is developing new *Land Sector and Removals Guidance* on how companies account for and report the following activities in their greenhouse gas inventories:

- Land use
- Land use change
- Carbon removals and storage
- Biogenic products
- Related topics

The project will develop internationally accepted guidance on corporate GHG accounting on the above topics. The new guidance is expected to be used by companies to:

- Inform mitigation strategies by understanding the GHG emissions/removals impacts of land use, land use change, bioenergy and carbon removal activities
- Set targets and track performance by including the above activities in GHG targets
- **Report** GHG inventories including GHG emissions and carbon removals and report progress toward GHG mitigation goals

The new guidance will be designed to create more consistency and transparency in the way companies quantify and report GHG emissions and removals from land use, land use change, bioenergy and carbon removal technologies and track progress toward GHG mitigation goals, following a credible approach. The guidance will be developed through an inclusive, multi-stakeholder process and will build on existing methods and approaches.

The new guidance is also likely to be adopted by key programs and initiatives such as the Science Based Targets Initiative.

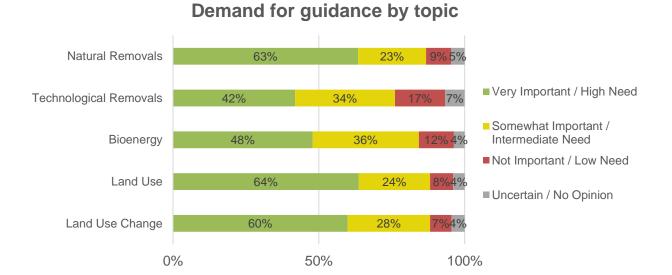
# 2 Summary of Scoping Survey

In early 2019, WRI developed a survey to assess the demand for additional Greenhouse Gas Protocol guidance on carbon dioxide removals (natural and technological), bioenergy, land use and land use change. The survey was distributed online and ran from January to April 2019. A total of 417 individuals responded to the survey from businesses, governments, NGOs, academic/research institutions and consultants across over 50 countries.





#### Key Findings

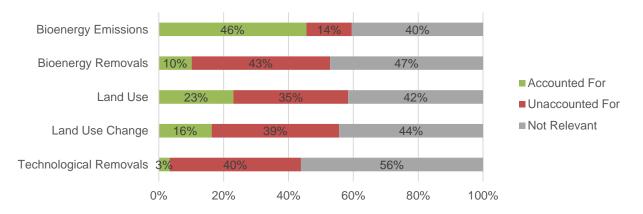


# 1) There was strong demand across survey respondents for guidance in all areas identified

More than three quarters of survey respondents identified new guidance on each topic as being important (either very important or somewhat important):

- Natural (biogenic) carbon removals (86%)
- Technological carbon removals (76%)
- Bioenergy (84%)
- Land use (88%)
- Land use change (88%)

#### 2) Few companies currently account for land sector emissions and removals, even when relevant



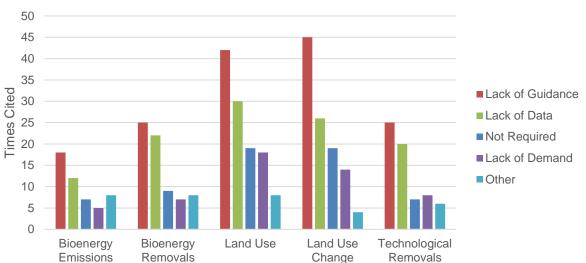
# Share of respondents with GHG inventories accounting for each activity





Emissions and removals from bioenergy, land use and land use change are relevant for more than half of respondents with GHG inventories (n=178), yet few companies account for bioenergy removals, land use and land use change. Very few companies are currently accounting for technological removals (e.g., carbon capture and storage) but 76% of stakeholders still identified a need for new guidance in this area.

# 3) Lack of guidance was the most common reason respondents cited for why they were not accounting for activities, where such activities were relevant



# Reasons cited for not accounting for a category

# 3 Scope

The GHG Protocol Land Sector and Removals Guidance will address the following topics:

- 1) **Removals:** Accounting and reporting for carbon dioxide removals and storage
- 2) Land sector emissions and removals: Accounting and reporting for greenhouse gas emissions and removals from agriculture, forestry, other land use, and land use change
- 3) **Biogenic products:** Accounting and reporting for greenhouse gas emissions and removals from the production and consumption of biogenic products such as bioenergy

# 4 Draft List of Topics to Address

#### 4.1 Carbon Dioxide Removals

- Defining terms and concepts
  - o Removals (from the atmosphere) vs. carbon storage in pools/reservoirs (i.e. carbon sequestration)
  - Removal enhancements vs. avoided emissions or reduced emissions
  - o Removals occurring in the company's value chain vs. removals occurring outside of the value chain
- Types of removals and storage
  - Biogenic removals and storage (e.g., afforestation, reforestation, forest restoration, urban tree planting, agroforestry, building soil carbon, etc.)
  - Technological removals and storage (e.g., direct air capture, enhanced weathering/mineralization, etc.)





- Accounting methods for removals and sequestration across scopes 1 and 3
  - Carbon dioxide removals or carbon fluxes from the atmosphere vs. monitoring carbon storage in pools
  - Accounting for removals and storage over time
  - Allocating removals across companies and scopes
  - Accounting for biogenic and technological removals that do not store carbon and will be emitted back to the atmosphere (i.e. carbon removal and utilization)
  - Accounting for biogenic and technological removals with temporary or long-term storage, including monitoring and verification
- Quantification methods and data sources
  - Identification of relevant tools, methodologies/protocols, datasets, etc.
- Reporting
  - Separate reporting of emissions and removals
  - How to report removals across the value chain (e.g., whether to establish scope 1 removals and scope 3 removals)
  - Separate reporting of removals vs. carbon storage
  - Separate reporting of removals outside of the scopes (i.e., purchased from/sold to other companies, or interventions with impacts outside the value chain)
- Target setting and tracking changes over time
  - o Setting targets that cover removals
  - o Setting a base year and recalculating base year removals and storage
  - o Setting separate targets for emissions and removals
  - Role of removals in achieving net zero targets
  - Tracking removal enhancements within an inventory
  - Mitigation strategies/actions to enhance removals
- Alignment with or revisions to other GHG Protocol standards

## 4.2 Land Sector

- Types of emissions, removals and sequestration within the land sector
  - Carbon emissions and removals from land use (e.g., forest management, crop and livestock production, bioenergy feedstock production, soil carbon, etc.)
  - Carbon emissions and removals from land use change (e.g., deforestation, afforestation, wetland conversion, etc.)
    - Direct and indirect land use change and related impacts from changes in production
  - o Agricultural GHG emissions (e.g., livestock methane emissions, soil nitrous oxide emissions, etc.)
  - Biogenic removals and temporary to long-term storage in biogenic products/materials (e.g., furniture, building materials, etc.)
  - Biogenic carbon dioxide emissions and removals from bioenergy production and consumption (e.g., biomass, biofuels, biogas)
- Land sector accounting approaches
  - o Use of land-based vs. activity-based accounting methods
  - Addressing the timing of removals and emissions
  - Separate biogenic carbon emissions and removals accounting vs. bringing biogenic emissions and removals into scopes 1, 2 and 3
  - o Guidance by scope





- Scope 1 accounting (e.g., for farmers, ranchers, timber/forest management companies, bioenergy feedstock producers, land managers/owners, etc.)
- Scope 2 accounting (e.g., for bioenergy-sourced electricity consumption)
- Scope 3 accounting (e.g., for food and beverage companies, forest product companies, apparel companies, retailers, finance/investors, etc.)
- o Guidance by sub-sector
  - Forest management / forest products
  - Cropland management / crops
  - Rangeland management / animal products
  - Bioenergy feedstock production / bioenergy (aligning bioenergy accounting approaches with land sector accounting approaches)
- Quantification methods and data sources
  - Methods across carbon pools (i.e., biomass carbon, dead organic carbon, soil organic carbon, carbon storage in biogenic products/materials)
  - Use of primary (monitored) data vs. secondary (estimated) data and modeling approaches
  - Data collection based on the company's location within the value chain (e.g., land managers, processers and retailers)
  - Data approaches depending on whether there is data traceability
  - Estimating and managing uncertainty in data, methods and models
- Reporting requirements for the land sector
  - Reporting emissions and removals across scopes (i.e., scope 1, 2 and 3)
  - o Separate reporting of fossil versus biogenic carbon
  - Whether and how to report avoided emissions (e.g., in a bioenergy life cycle)
  - How to report purchases or sales of credits/certificates
- Target setting and tracking changes over time
  - o Setting targets that cover land sector activities
  - o Setting a base year and recalculating base year emissions and removals
  - o Identifying land sector mitigation strategies and interventions
  - Role of bioenergy and land use removals in achieving GHG targets
- Alignment with or revisions to other GHG Protocol standards and guidance
  - Agriculture Guidance (e.g., livestock emissions, emissions from manure management, soil emissions, biomass burning), Corporate Standard, Scope 3 Standard, Scope 2 Guidance, Product Standard
- Relationship of corporate land sector accounting to other programs and initiatives
  - Jurisdictional accounting initiatives (i.e., national GHG inventories, REDD+ programs)
  - Project-based accounting initiatives (i.e., Agriculture Forestry and Other Land Use (AFOLU) sector offset/inset projects, C removal certificates)
  - Sustainability certification (i.e., sustainable agriculture, green gas certificates, apparel and forestry standards)

#### 4.3 Bioenergy and other biogenic products

- Guidance for biogenic product producers and consumers
- Direct / scope 1 GHG accounting for consumers
  - Accounting for direct biogenic emissions
- Indirect / scope 2 GHG accounting for electricity consumers





- Accounting for indirect biogenic emissions associated with purchased electricity, heat, steam or cooling
- Indirect / scope 3 accounting for producers and consumers
  - Accounting for upstream life cycle GHG emissions and removals for consumers
  - Accounting for downstream life cycle GHG emissions for producers
  - Accounting for bioenergy carbon capture and storage across the value chain
- Evaluating mitigation impacts to inform mitigation strategies
  - o Comparing GHG impacts relative to counterfactual scenarios
- Target setting and tracking progress
  - Accounting for bioenergy and biogenic products in GHG emissions and removals targets
- Reporting
  - Reporting emissions and removals across scopes (i.e., scope 1, 2 and 3)
  - $\circ$   $\;$  Separate or combined reporting of fossil versus biogenic carbon
  - o Whether and how to report avoided emissions
  - How to report purchases or sales of credits/certificates

## 5 Approach

Key elements of the Greenhouse Gas Protocol approach include:

- Develop guidance through a global, inclusive, multi-stakeholder process in partnership with companies, government agencies, NGOs, and other experts and stakeholders from around the world. GHG Protocol has twenty years of experience convening global stakeholders to develop consensus GHG accounting methodologies. The GHG Protocol will follow the same type of global, inclusive, and open multi-stakeholder process used to develop the GHG Protocol Corporate Standard (2004), the GHG Protocol for Project Accounting (2005), the Corporate Value Chain (Scope 3) Standard (2011), and the Product Life Cycle Standard (2011).
- <u>Build on existing approaches</u>, such as the IPCC guidelines for national GHG inventories, GHG Protocol Agricultural Guidance and LULUCF Guidance for Project Accounting, ISO 14064-1:2018, Quantis' Accounting for Natural Climate Solutions guidance, Gold Standard Value Change Initiative's Value Chain (Scope 3) Intervention Guidance and Guidance for Soil Organic Carbon, GHG Protocol Brazil Forestry tool, REDD+ programs and other jurisdiction land sector approaches, CDM and voluntary AFOLU sector project methodologies and other methods and reports recommended by participants in the scoping process.
- <u>Pilot test draft guidance</u> by a set of companies to gain real-world feedback on the practicality and usefulness of draft guidance and ensure that the final guidance is well-suited to their needs.
- Ensure rigorous and user-friendly technical design to ensure a true and fair account of emissions, removals and sequestration and provide comprehensive guidance for land sector accounting aligned with international best practices. The guidance will be based on key GHG accounting principles (relevance, accuracy, completeness, consistency, and transparency).





## 6 Governance and Development Process

#### 6.1 Overview

WRI and WBCSD will convene a series of stakeholder groups as part of the global, inclusive, multi-stakeholder guidance development process. The stakeholder groups will be balanced by including participation from diverse geographies and include a range of government, business, and civil society participants. All outputs will be subject to comprehensive review by any interested stakeholders.

The governance process to oversee and develop the new guidance will consist of five groups:

- Secretariat
- Advisory Committee
- Technical Working Group(s)
- Review Group
- Pilot Testing Group

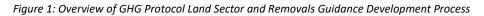
Group	Responsibilities	Commitment
Secretariat (WRI and WBCSD)	Convene, facilitate, and oversee process	The Secretariat will consist of 5 FTE staff dedicated to this initiative
Advisory committee	Provide strategic guidance on the goals and direction of the project	Participate in 2-4 meetings per year
Technical working group(s)	Develop the technical content of the guidance	Participate in biweekly conference calls during the development of the first draft (unless fewer calls are necessary); and the necessary time to prepare and review materials (approx. 5-10 hours per month)
Review group	Review and provide feedback on draft guidance produced through the working group process	At the discretion of the participant, review and provide written comments on draft guidance
Pilot testing group	Implement the draft guidance and provide feedback for their improvement	Implement the draft guidance. Provide feedback on the strengths and weaknesses of the draft guidance. Generate case studies to be included in the final publication(s).

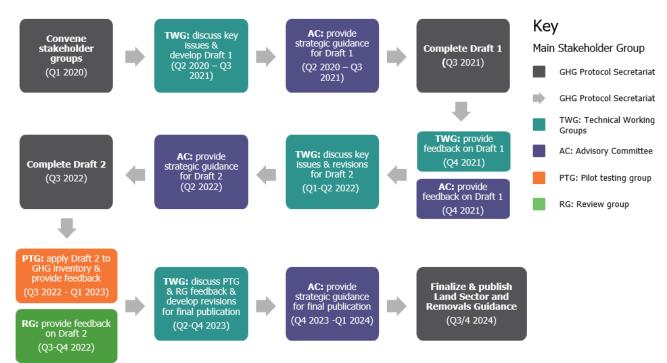
#### Table 1: Summary of responsibilities and expected commitment of each stakeholder group

The following figure illustrates the overall governance and development process.









#### 6.2 Decision making process

As described in more detail in section 6.3 each of the groups (the 1. Secretariat, 2. Advisory Committee, 3. Technical Working Group(s), 4. Review Group, and 5. Pilot Testing Group) plays a distinct role in the development and decision-making process of the GHG Protocol Land Sector and Removals Guidance. The GHG Protocol Secretariat aims to facilitate decision-making on the various elements of the guidance by evaluating options according to the decision-making criteria.

Decisions and development of GHG Protocol standards and guidance are made according to the GHG Protocol decisionmaking criteria and hierarchy, explained below.

GHG Protocol decision-making criteria and hierarchy

- First, GHG Protocol accounting and reporting approaches shall meet the GHG Protocol accounting and reporting principles (see below), and shall align with the latest climate science and global climate goals (i.e. keeping global warming below 1.5°C).
- 2. Second, GHG Protocol accounting frameworks should support ambitious climate goals and actions in the private and public sector.
- 3. Third, GHG Protocol accounting frameworks which meet the above criteria should be feasible. For aspects of accounting frameworks that meet the above criteria but are difficult to implement, the GHG Protocol should provide additional guidance and tools to support implementation.





#### **Table 2: GHG Protocol Accounting and Reporting Principles**

Principle	Definition
Relevance	Ensure the GHG inventory appropriately reflects the GHG emissions (and removals, if applicable) of the company and serves the decision-making needs of users – both internal and external to the company.
Completeness	Account for and report on all GHG emissions (and removals, if applicable) from sources, sinks, and activities within the inventory boundary. Disclose and justify any specific exclusions.
Consistency	Use consistent methodologies to allow for meaningful performance tracking of emissions (and removals, if applicable) over time and between companies. Transparently document any changes to the data, inventory boundary, methods, or any other relevant factors in the time series.
Transparency	Address all relevant issues in a factual and coherent manner, based on a clear audit trail. Disclose any relevant assumptions and make appropriate references to the accounting and calculation methodologies and data sources used.
Accuracy	Ensure that the quantification of GHG emissions (and removals, if applicable) is systematically neither over nor under actual emissions (and removals, if applicable), and that uncertainties are reduced as far as practicable. Achieve sufficient accuracy to enable users to make decisions with reasonable assurance as to the integrity of the reported information.
Conservativeness	Use conservative assumptions, values, and procedures when uncertainty is high. Conservative values and assumptions are those that are more likely to overestimate GHG emissions and underestimate removals, rather than underestimate emissions and overestimate removals.
Permanence	Ensure mechanisms are in place to monitor the continued storage of reported removals, account for reversals, and report emissions from associated carbon pools.

#### 6.3 Terms of reference for stakeholder groups

See below for additional details on the composition, responsibilities, decision making process, commitment and acknowledgement for each of the groups.

#### 1. Secretariat

WRI and WBCSD will convene and facilitate the guidance development process and act as the secretariat.

#### **Responsibilities**

- Convene participants
- Raise funds to support the process
- Facilitate and coordinate meetings of the advisory committee, technical working groups, and stakeholder workshops





- Draft written inputs into the advisory committee and technical working group process, including background on relevant standards and methodologies, accounting issues and challenges, and key decisions to be made by each group
- Draft sections of the standards/guidance
- Recruit pilot testers and manage pilot testing
- Ensure consistency and user-friendly presentation in the final standards across all sections developed by the technical working groups
- Produce final publications taking into account feedback received to ensure the highest quality

#### **Decision Making Process**

In cases where the Technical Working Group and Advisory Committee is unable to reach consensus recommendations, the Secretariat retains the authority to make a final decision, guided by the majority viewpoint and GHG Protocol decision-making criteria and hierarchy described above.

#### 2. Advisory Committee

The Advisory Committee will provide strategic guidance on the goals and direction of the project.

#### **Composition**

The Advisory Committee will consist of 10-20 strategic and technical advisors with expertise in GHG accounting and reporting related to carbon removals and sequestration and land sector accounting (i.e., agriculture, forestry, other land use, land use change and bioenergy expertise). Participation in the Advisory Committee is by invitation only.

#### **Responsibilities**

1) Strategic guidance

- Provide advice on the objectives and scope of the standards/guidance
- Provide advice and guidance on objectives and composition of working groups and ensure that working group
  outputs are consistent with established objectives
- Provide guidance on the topics to be addressed by the technical working groups
- Support broad adoption and use of the standards/guidance by companies, GHG reporting and target setting programs/initiatives, governments, financial institutions, and civil society

#### 2) Technical and policy guidance

• Recommend solutions to major technical or policy disagreements or questions when the technical working groups are unable to reach consensus and/or provide solutions (e.g., technical questions include what types of methods are available, while policy questions include what types of methods should be required or optional.).

3) Standards/guidance review

• Review draft standards/guidance from the technical working groups for relevance, accuracy, consistency, and completeness.

#### **Decision Making Process**

Members of the Advisory Committee will provide inputs and recommendations on key questions. In cases where the Advisory Committee is unable to reach consensus recommendations, the Secretariat retains the authority to make a final decision, guided by the GHG Protocol decision-making criteria and hierarchy.

#### **Commitment**

Advisory Committee members are requested to make a two-year commitment to participate in the standards/guidance development process. This is expected to involve:

2-4 meetings per year (for 3 years)

#### **Acknowledgement**





Members of the Advisory Committee will be acknowledged as such and listed by name and affiliation in the final publication.

#### 3. Technical Working Group(s)

Members of the technical working group(s) will develop the technical content of the standards/guidance. The number of technical working groups is to be determined.

#### **Composition**

Each technical working group(s) will consist of about 15-20 experts from business, government, academia, and NGOs with technical backgrounds in quantifying carbon removals and sequestration and land sector accounting (i.e., agriculture, forestry, other land use, land use change and bioenergy expertise). A Secretariat staff member will be designated as a facilitator for each group.

#### **Responsibilities**

- For the set of technical accounting issues designated to the group: review relevant existing methodologies and practices; analyze the issues and challenges; and develop recommendations around content of standards/guidance
- Draft sections of text on the designated topics and review draft text at frequent intervals
- Receive and respond to feedback on draft chapters from the Advisory Committee, the Review Group, the pilot testing phase, and public comment periods

#### **Decision-Making Process**

Technical Working Groups will strive to reach consensus recommendations on each aspect of the standards/guidance. If the Technical Working Group is unable to reach a consensus, the group will provide the Advisory Committee with a set of options for review and recommendation, indicating the relevant advantages and disadvantages of each option. In cases where the Advisory Committee is unable to reach a consensus, the Secretariat retains the authority to make a final decision, guided by the majority viewpoint and decision-making criteria and hierarchy.

#### **Commitment**

Technical working group members are requested to make a two-year commitment to participate in the standards and guidance development. This is expected to involve:

- 2 conference calls per month during the first draft development (unless fewer calls are necessary), with optional participation in additional conference calls in sub-groups as needed
- Occasional calls after the first draft is developed, as needed
- The necessary time to prepare and review materials (approx. 5-10 hours per month)

#### Acknowledgement

Members of the Technical Working Groups will be acknowledged as Technical Working Group Members and listed by name and affiliation in the final publication.

#### 4. Review Group

The review group will provide feedback on the draft guidance as it is produced through the working group process.

#### **Composition**

The group will consist of any interested stakeholders from government, business, NGOs, academia, etc.

#### **Responsibilities**

At the discretion of the individual participant, provide written feedback on draft guidance. Comments from the Review Group will be incorporated at the discretion of the Technical Working Groups, Advisory Committee members, and the Secretariat.

#### <u>Commitment</u>





Receive draft guidance and provide written feedback at the discretion of the individual participant.

#### Acknowledgement

Stakeholders who submit comments as part of the Review Group will be acknowledged and recognized as Reviewers and listed by name and affiliation in the final publication.

#### **5. Pilot Testing Group**

After the draft guidance is prepared, a select group of companies and organizations will have an opportunity to test the draft guidance to ensure that it can be practically implemented, provide any feedback for its improvement, and serve as important case studies in the final publication. The Secretariat will provide technical support to pilot testers in implementing the draft guidance. Feedback from the pilot testing will be incorporated into the final version of the guidance.

#### **Composition**

The group will consist of selected organizations representing a diversity of sectors and geographic locations.

#### **Responsibilities**

Implement the draft guidance. Provide detailed, constructive feedback on the strengths and weaknesses of the draft guidance. Generate case studies to be included in the final publication.

#### **Commitment**

Commit to testing and implementing the draft guidance, providing feedback through a questionnaire, and developing a case study.

#### Acknowledgement

Pilot testers will be recognized as Pilot Testers and listed by affiliation in the final publication.

#### 6.4 List of participants

#### **Advisory Committee Members**

Greg Downing	Cargill									
Thomas Maddox / Tatiana Boldyreva	CDP									
Soojin Kim	ClimateWorks Foundation									
Nicolas Gordon	CMPC									
Michele Galatola / Susanna Andreasi Bassi	European Commission									
Francesco Tubiello	Food and Agriculture Organization of the United Nations									
Owen Hewlett	Gold Standard									
Uwe Fritsche	IEA Bioenergy / IINAS									
Andreas Ahrens	IKEA									
Kevin Rabinovitch	Mars									
Gladys Naylor	Mondi									
Conor McMahon	Nestlé									
Jon Dettling / Alexi Ernstoff	Quantis International									
Leah Samberg	Rainforest Alliance									
Alex Cantlay	Shell									
Antti Marjokorpi	Stora Enso									
Sarita Da Cunha Marques Severien	Suzano									
Volker Sick	Global CO <sub>2</sub> Initiative / University of Michigan									
Martha Stevenson	WWF									
Bernhard Stormyr	Yara									





#### Technical Working Group Members

3Degrees
3Keel
AdAstra
Aether UK
American Forest
American Forest Foundation
Anthesis
Asia Pacific Resource Holdings International
Australia NSW Dept. of Primary Industries / IEA Bioenergy
Barry Callebaut
Bayer
Brazilian Tree Industry (IBÁ)
Biz Excellence Systems Sdn Bhd
BP
Braskem
Cameroon Ministry of External Relations
Carbon Trust
Carbone 4
CDP
Center for Resource Solutions
Climate Change Atelier, S.L.
Climeworks
Confederation of European Paper Industries
Danone
DNV GL
Drax
Ecosystem Services Market Consortium
EDF
Environmental Defense Fund
Environmental Resources Management Brazil
Enviva Biomass
European Biogas Association
European Investment Bank
European Joint Research Centre
European Renewable Gas Registry
Fair Climate Services Pvt. Ltd.
Field to Market
Firmenich Inc.
Forest Investment Associates
Forest Stewardship Council
General Mills
Global Roundtable for Sustainable Beef
Green Strategies
Guidehouse
Heineken



**Christoph Leibing** Andreas Flad Miguel Brandão **George Peridas** Laura Overton Anthansia Xeros Pete Garbutt Lauren Cooper **Christian Ramaseder Rob Waterworth Kirsten Vice Urs Schenker** James Goudreau **Michelle Nutting** Tom Oldfield Morten Pedersen Marv Booth Abdulmutalib Yussuff Olivia Tuchten Jeff Seale Jamie Bohan **David Morris** Jacob Crous Steve Muzzy Tanya Yatchenia Derik Broekhoff Simon Armstrong David Cockburn Stephan Wehr Ran Tao Steve Wood Michael Mugarura Cher Xue Sara Ohrel Sasha Wilson Gary Bull **Diarmaid Clery** Matthew Brander Rachel Lamb Hilton Thadeu do Couto Ara Erickson Anna Stephens Christa Anderson



Inter IKEA Group KlimAktiv Consulting GmbH KTH - Royal Institute of Technology, Sweden / IEA Bioenergy Lawrence Livermore National Lab Mars Incorporated Mastercard McDonald's Corporation Michigan State University Forestry Department Mondi **Mullion Group** NCASI Nestlé Research Novartis Nutrien **Olam International** Orsted Partnership for Policy Integrity Project Drawdown **Promethium Carbon Regrow Agriculture** Republic Services, Inc. Royal DSM Sappi Forests Second Nature Shell Stockholm Environment Institute Sustainable Biomass Program Tetra Pak The Delphi Group The Estée Lauder Companies Inc The Nature Conservancy Thünen Institute of Forest Ecosystems **True North Collective** United States Environmental Protection Agency University of Alberta University of British Columbia University of East Anglia University of Edinburgh University of Maryland University of São Paulo Weyerhaeuser WSP WWF





#### Pilot Testing Companies (as of June 16, 2023)

Pilot testing companies that have agreed for their names to be shared at this stage are listed below. Please note that public acknowledgement in the final publication of the guidance will be determined by which organizations complete the pilot testing process and will be confirmed in a later stage.

A.P. Moller - Maersk A/S	GFL Environmental	OCP Group					
AB InBev	Green Asia Network	Olam International Limited					
Altri Florestal	Greenwood / Westchester – Nuveen	PepsiCo					
AMAGGI	Grupo Alimenta	Pernod Ricard					
Ansell	Hancock Natural Resource Group (HNRG),	Philip Morris SA					
APRIL	a Manulife Investment Management company	Preferred by Nature					
Aptar	Hedeselskabet	Protos					
Arauco	IKEA Industry	Rabobank					
Arla Foods	Ingka Investments	Rayonier, Inc					
Bayer	Inter IKEA	Sappi Southern Africa Ltd (Forests only)					
Braskem	International Paper	Stockholm Exergi					
BTG Pactual Timberland Investment Group	International Woodland Company A/S	Stora Enso Oyj					
("TIG")	Land O'Lakes, Inc.	Suzano S.A.					
Bunge	Lenzing AG	Sveaskog					
Canadian Forest Products Ltd.	Maple Leaf Foods	Sylvamo					
Cargill, Inc	Marfrig Global Foods S.A.	Tate & Lyle					
CDPQ	Mars Incorporated	The New Zealand Merino Company					
Church Commissioners of England	McDonald's	Tyson Foods, Inc.					
Clean Energy	Neste Oyj	UPM					
Corteva Agriscience	Nestle	Vale S.A.					
Dawn Meats Group and Dunbia	New Forests	Wasa, part of Barilla Group					
Dexco S.A	Noosa Council	Weyerhaeuser					
Drax	Nutrien	Yeo Valley Farms					
General Mills	Nutren	-					

#### Pilot Testing Supporting Partners (as of June 16, 2023)

Supporting partners that have agreed for their names to be shared at this stage are listed below. Please note that public acknowledgement in the final publication of the guidance will be determined by which organizations complete the pilot testing process and will be confirmed in a later stage.

2050 Consulting AB	CEPI
3p metrics	ClimatePartner GmbH
ACT Commodities	Embrapa
AdAstra Sustainability	Environmental Defense Fund
AECOM	ERM
Carbon Trust	Field to Market: The Alliance for Sustainable Agriculture
Carbone 4	Guidehouse





	RMI, Sustainable Aviation Buyer's Alliance (SABA) co-led by R and Environmental Defence Fund (EDF)					
Lestari Capital Mullion Group	South Pole					
NCASI	Verra					
Quantis	WRAP WSP					
Regrow Ag						

# 7 Timeline (Subject to Change)

Activities	2020			2021			2022				2023				2024					
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Convene stakeholder groups																				
Technical Working Group and Advisory Committee discussions and development of first draft																				
TWG and Advisory Committee review of first draft (6 weeks)																				
Revision through TWG and AC																				
Review by Review Group (2 months)																				
Pilot Testing (5 months)																				
Revision through TWG and AC based on feedback from pilot testing and review																				
Finalize and publish																				