Field to Market®

CLIMATE ACTION IN FOOD AND AGRICULTURE

A COMPENDIUM OF FIELD TO MARKET MEMBER CLIMATE COMMITMENTS

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INTRODUCTION

The stakes for accelerating climate action could not be higher. Rapidly intensifying climate impacts threaten to reverse long-term productivity gains across U.S. agriculture at a time when farmers are being asked to feed a growing global population while delivering natural climate solutions and other ecosystem benefits.

Extreme weather events like the August 2020 derecho, whose devastating winds reaching 100 mph as it carved a 700-mile trail of destruction across Nebraska, Iowa and Illinois, continue to batter America's farmland.[i] Whether farmers are contending with back-to-back hurricanes along the coast or wildfires, extreme heatwaves and withering droughts across the West, these events cost the U.S. agriculture sector billions of dollars each year. [ii]

Enthusiasm is growing about the opportunity to transform agriculture from a net source of greenhouse gas emissions to a net sink— sequestering carbon in healthy soils. To realize this potential, our industry must recognize the urgency to support farmers in sharing in the risk of transitioning to climate-smart agriculture practices while simultaneously addressing the extreme risks the climate crisis poses to their livelihoods today. The compounding effects of rapidly changing weather patterns to emerging pest and disease pressures pose risks not only to yields and farmers' bottom lines, but also to the supply chain. If left unchecked, climate change will not only devastate the agricultural economy, but also pose material risks to the viability of the food and agriculture system.

CASE FOR URGENT ACTION

Companies across the food and agriculture value chain have a critical role to play in adapting their business models to address GHG emissions as material risks. There is a growing business case for rewarding farmers for climate-smart agriculture and the provision of ecosystem services it provides, including the tracking, measuring and active strategy for managing GHG emissions. Doing so will strengthen the resilience of our industry and contribute important solutions to restoring our planet to health.

Investors and consumers are increasingly seeking evidence of corporate climate action, creating opportunities to deliver business benefit across the value chain. An April 2021 study from the Pew Research Center finds six-in-ten Americans (60%) view climate change as a major threat to the well-being of the United States, the highest percentage of any Center survey going back to 2009. [iii]

With the release of the sixth IPCC assessment in August 2021, scientists warned that we are collectively at risk of failing to achieve the necessary emissions reductions to meet the goals of the Paris Agreement. Within weeks of its publication, investors responsible for over $55 trillion in assets issued an urgent challenge to the food and beverage industry to take collective action to rapidly decarbonize the sector. Uniting under the banner of Climate Action 100+, the world's largest investor engagement initiative on climate change, these 615 investors outlined a suite of expectations detailing requirements for the industry to demonstrate progress towards achieving a net zero future in line with the goals of the Paris Agreement. [iv]

THE SHARED ROAD LEFT TO TRAVEL

Delivering ambitious emissions reductions within the next decade is vital. Growing consensus is emerging that a net zero future is not possible without action from food and agriculture companies. Leading conservation organizations have laid out a roadmap of the journey left to travel with the Shared Vision for Climate Action. Yet absent unparalleled collaboration across the sector and supply chains, decarbonization at the scale and pace required will remain an ever-present challenge.

To align with the goals of the Paris Agreement, Climate Action 100+ report calls for reductions in Scope 3 land-based emissions by 85% globally from business as usual in order to align with the International Energy Agency's Net Zero by 2050 scenario. [v] Concerns are being raised that the food system is currently not on track to meet this target by some margin, with recent analysis by Ceres uncovering limited evidence of specific strategies to measure and reduce Scope 3 emissions—finding that more than 60 percent of the companies analyzed do not disclose any Scope 3 supply chain emissions. [vi]

KEY FINDINGS

As the key findings from the second edition of the Climate Action Compendium show, momentum continues to build across the industry in adopting time-bound, measurable emission reduction targets. The question remains whether incremental growth is keeping pace with the urgency to act, as growing scrutiny from investors and consumers alike shifts expectations from 'what' (targets) to 'how' (action).

As we consider the contributions of U.S. agriculture in contributing to a net zero future, key findings from analysis of member climate commitments signal progress, while also highlighting important opportunities to accelerate collective action to rapidly deliver reductions in Scope 3 emissions.

KEY FINDINGS

68%
(100) of Field to Market's 146 members have public commitments on climate action, growing from 59% in 2020

30%
(19) of Field to Market's 63 corporate members have established **science-based targets** for Scope 3 emissions reductions

4
of the 11 commodities engaged in the Alliance have set **national, industry-wide targets** for emissions reduction from all producers

TRANSLATING AMBITION INTO CREDIBLE ACTION

Field to Market recognizes that setting time-bound, measurable and science-based targets is only the starting block in our race against time. For that reason, this year's analysis seeks to evaluate both ambition and action. To do so, we have analyzed the number of members who have Scope 3 emissions targets, with the number of companies with collaborative projects to engage their supply chain on emissions reduction enrolled in Field to Market's Continuous Improvement Accelerator.

> Field to Market is working with our members to translate ambition into action.

The Accelerator's project directory offers an immediate opportunity for the food and agriculture sector to meet consumer and investor expectations and enables our industry to improve transparency and demonstrate credible action through concrete, time-bound plans and a commitment to report progress annually on efforts to avoid emissions and sequester carbon in healthy soils. The future of climate action relies upon unparalleled collaboration within and across supply chains, which can be most clearly demonstrated by publicly registering and transparently communicating both continuous improvement goals and progress achieved.

- **75 Active Projects** registered in the Accelerator
- **79% (59) focused on measuring Scope 3 GHG emissions** to improve disclosure
- Of those 59 projects, **37% (22) go beyond measurement to implement strategies to support farmers** in adopting practices to drive emissions reductions

As Mother Nature continues to sound the alarm, signaling that we are running out of time, and farmers increasingly bear the brunt of the impacts of extreme weather, it is more important than ever before that food and agriculture value chain supports farmers in driving timely and collective action on climate change. Helping farmers shoulder the agronomic and financial risk of the transition will be essential in moving the needle and driving positive change across U.S. agriculture, while also improving the resilience of America's farmland to adapt.

No organization can solve this challenge alone. We must all pull together to accelerate climate action across all levels of the value chain. The future of the industry and our planet depends on it.

OBJECTIVES AND SCOPE OF REPORT

Field to Market recognizes that setting time-bound, measurable and science-based targets is only the starting This compendium of our membership's publicly available climate commitments seeks to celebrate growing momentum and leadership on climate action, while also underscoring how greater collective action is needed to create a more sustainable and resilient food and agricultural system. The report is rooted in the idea that there is an important correlation between setting public targets, reporting on progress, and ultimately improving performance. By gathering these commitments together in one place and clearly identifying commitments the influence emissions reductions on-farm and the level of alignment with what the science requires from food and agriculture, we hope to enable the following:

- **BENCHMARK AMBITION** – Organizations can compare their goals to others in their sector and across the broader industry to benchmark the scope and scale of their climate ambition;
- **DRIVE PERFORMANCE** – Closely correlated to benchmarking, sustainability champions within our member organizations can use the goals they have set, along with commitments their peers have made, to compel their organization to boldly address the climate crisis;
- **FACILITATE COLLABORATION** – Companies can seek multi-stakeholder partnerships and collaboration with other organizations that have established similar goals, therefore accelerating the industry's collective response to climate change;
- **FOSTER RESEARCH** – The scientific community can point to private sector commitments to spur additional investment in research needed to overcome barriers to climate-smart agriculture; and
- **PROMOTE ACCOUNTABILITY** – NGOs and other stakeholders can use this data to hold organizations accountable to public commitments on climate action.

Throughout the report, we have indicated commitments that target on-farm emissions as well as identifying corporate commitments that align with science to limit temperature rise. It is important to note in 2021, the Science-Based Targets initiative has announced that in response to increasing urgency for climate action they are phasing out validation for targets set to 2°C or well-below 2°C for Scope 1 and 2 and setting a minimum level of ambition of well-below 2°C for Scope 3, requiring that all companies align ambitions with these requirements no later than July 15, 2022.

We will continue to update the compendium annually to reflect the current state of the industry's commitments and level of ambition as well as celebrate new member goals and progress achieved.

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[i] Matthew Cappucci, Destructive derecho brings 100 mph winds to Iowa, blasts through Chicago along 700-mile path, The Washington Post, August 11, 2020, available at https://www.washingtonpost.com/weather/2020/08/11/derecho-chicago-midwest-iowa-storm/

[ii] Rosamond L. Naylor, Long-Run Uncertainties for U.S. Agriculture (Kansas City, MO: Federal Reserve Bank of Kansas City, 2019), available at https://www.kansascityfed.org/documents/751/2019-Long-Run%20Uncertainties%20for%20U.S.%20Agriculture%20.pdf

[iii] Jacob Poushter and Moira Fagan, More now say climate change is a major threat. Americans See Spread of Disease as Top International Threat, Along With Terrorism, Nuclear Weapons, Cyberattacks (pp.12) (Pew Research Center, April, 2020), available at https://www.pewresearch.org/global/wp-content/uploads/sites/2/2020/04/PG_2020.04.13_U.S.-Threats_FINAL.pdf

[iv] Global Sector Strategies: Recommended Investor Expectations for Food and Beverage (Ceres and the UN Principles for Responsible Investment, August, 2021), available at https://www.climateaction100.org/wp-content/uploads/2021/08/Global-Sector-Strategies-Food-and-Beverage-Ceres-PRI-August-2021.pdf

[v] Global Sector Strategies: Recommended Investor Expectations for Food and Beverage. (Ceres and the UN Principles for Responsible Investment, August, 2021) pp. 12, available at https://www.climateaction100.org/wp-content/uploads/2021/08/Global-Sector-Strategies-Food-and-Beverage-Ceres-PRI-August-2021.pdf

[vi] Food Emissions 50 Company Benchmark. (Ceres, July, 2021), available at https://www.ceres.org/resources/reports/food-emissions-50-company-benchmark

These charts provide a snapshot of organizations that have set science-based greenhouse gas emissions reduction targets aligned with the methodology of the Science-Based Targets Initiative (SBTi) and/or made a commitment to ensure that emissions from their individual operations, energy sourced and indirect sources are either carbon neutral or climate positive. Many of organizations commiting to carbon neutrality/ net zero are also signatories to the United Nation's Business Ambition for 1.5°C pledge. Please note that organizations with emissions reduction targets not yet validated by SBTi are available in following chapters.

Scope 1 and 2 Commitments

	2020	2025	2029	2030	2035	2040	2050	Undated
Climate Positive				Unilever		Walmart Save money. Live better.		
Carbon Neutral/ Net Zero		FarmProgress By Informa Markets		BAYER Nestlé PURINA	Cornell Atkinson Center for Sustainability P&G	OCP NORTH AMERICA	N EXTENSION INNOVATION CENTER FOR U.S. DAIRY	AJINOMOTO MIT JOINT PROGRAM ON THE SCIENCE AND POLICY of GLOBAL CHANGE
1.5°C		Walmart Save money. Live better.	BAYER	AJINOMOTO				
Well Below 2.0°C		Mondelēz International SNACKING MADE RIGHT		DFA Dairy Farmers of America P&G syngenta SMUCKER'S THE J. M. SMUCKER COMPANY TATE & LYLE				
2.0°C	Kellogg's Nestlé PURINA	Cargill GENERAL MILLS		Corbion McDonald's PEPSICO TARGET The Coca-Cola Company			Kellogg's	

Scope 3 Commitments

	2020	2025	2029	2030	2039	2050	Undated
Climate Positive							
Carbon Neutral/ Net Zero					Unilever	General Mills, Innovation Center for U.S. Dairy, Nestlé PURINA, PepsiCo	Ajinomoto, Syngenta
1.5 °C		U.S. Cotton Trust Protocol	Bayer	Ajinomoto, General Mills, Unilever			
Well Below 2.0°C		Mondelēz International Snacking Made Right		Dairy Farmers of America, Syngenta, Tate & Lyle			
2.0°C	Nestlé PURINA	General Mills		Cargill, Corbion, Kellogg's, McDonald's, PepsiCo, Target, The Coca-Cola Company			

SECTION 1

GROWER SECTOR
CLIMATE COMMITMENTS

Field to Market's Grower Sector is comprised of 23 organizations representing commodity crop producers at both the state and national level. More than half of the sector's members have made public climate commitments, including several examples where organizations have committed to setting national, industry-wide targets for greenhouse gas emissions reduction for corn, cotton, rice and soybeans.

While Scope 3 points to on-farm impact unless otherwise noted for all other sectors in this report, it has a different context for the grower sector. For farming, emissions boundaries are delineated by:

Scope 1: Direct emissions from sources that are owned or controlled by the farming operation, e.g. CO_2 emitted as a result of diesel used in tractors and farm machinery, gas for heating, land use change; N_2O from manure and/or nitrogen fertilizer application; and CH_4 from enteric fermentation.

Scope 2: Emissions associated with the generation of purchased electricity used on the farm.

Scope 3 Indirect or embedded emissions associated with the production, processing and distribution of inputs into the farming system, e.g. seed, bought in grain and compound feed, fertilizers, pesticides, etc. This also includes embedded emissions in machinery, building materials and farm infrastructure.

65%

HAVE MADE PUBLIC CLIMATE COMMITMENTS

to help farmers mitigate and adapt to climate change

- Measure the carbon footprint and other indicators of sustainability throughout the supply chain for peanuts and collaborate on methods to further improve the sustainability of U.S. peanuts and products.[1]

  Commitment Scope: Individual Operations, Energy, Embedded Emissions | Commitment Type: Aspirational

U.S. SOYBEAN INDUSTRY

Groups representing U.S. soybean farmers, including the United Soybean Board, American Soybean Association and U.S. Soybean Export Council, outlined and committed to goals for improvements by 2025 on a key set of metrics:

- By 2025, reduce total greenhouse gas emissions by 10% (measured as pounds CO_2-equivelent gases emitted per year).
- By 2025, increase energy use efficiency by 10% (measured as BTUs per year)[2, 3]

  Commitment Scope: Individual Operations, Energy, Embedded Emissions | Commitment Type: Specific & Dated | Target Type: Intensity

U.S. COTTON INDUSTRY

Under the advisory of the U.S. Cotton Industry Sustainability Task Force, the U.S. cotton industry is committed to:

- Reducing greenhouse gas emissions by 39 percent by 2025;
- Increasing soil carbon in fields by 30 percent by 2025; and
- Reducing energy to produce seed cotton and ginned lint by 15 percent by 2025.[4,5]

  Commitment Scope: Individual Operations, Energy, Embedded Emissions | Commitment Type: Specific & Dated | Target Type: Intensity

- Edge stands with our farmers in their commitment to seek effective and financially viable ways to protect and improve water quality and reduce greenhouse gas emissions. We believe environmentally focused policies affecting agriculture should be guided by farmers, grounded in science, driven by the market and sufficiently flexible to allow for innovation at the farm level.[6]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

To support the Indiana Agriculture Nutrient Alliance's statewide practice adoption goals by 2025, Indiana Corn Marketing Council and Indiana Soybean Alliance jointly commit to the following goals:

- 100% of Indiana farmers regularly perform soil sampling;
- 100% of Indiana farmers implement plans for nutrient management;
- 75% of Indiana farmers making nutrient applications at planting or in-season;
- 100% of Indiana farmers making frozen and snow covered ground applications only as a last resort;
- 25% increase of Indiana cropland acres using reduced tillage systems;
- 10% increase of Indiana cropland acres using no-till or strip-till systems; and
- 40% increase of living green cover acres of Indiana cropland.[7]

  Commitment Scope: Individual Operations | Commitment Type: Specific & Dated

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

U.S. DAIRY INDUSTRY

INNOVATION CENTER FOR U.S. DAIRY
HEALTHY PEOPLE • HEALTHY PRODUCTS • HEALTHY PLANET

- The U.S. Dairy Industry commits to collectively become carbon neutral or better by 2050.

  Commitment Scope: Individual Operations, Energy, Embedded Emissions | Commitment Type: Specific & Dated

- Improve water quality by optimizing use of manure and nutrients.[8]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

NCGA

- Reduce greenhouse gas emissions per bushel by 13 percent from 2020 to 2030
- Increase energy use efficiency by 13 percent from 2020 to 2030.[9]

  Commitment Scope: Individual Operations, Energy, Embedded Emissions | Commitment Type: Aspirational

National Farmers Union

- Support research, education, outreach, cost share, risk management, and other incentives to help family farmers and ranchers install and manage practices and infrastructure that mitigate and adapt to climate change, build soil health and increase watershed function, reduce greenhouse gas emissions, and sequester carbon at the farm level and throughout food supply chains.
- Develop and implement a comprehensive national energy and fuel strategy that reduces carbon emissions using renewable energy, carbon capture, ethanol and biofuels, and other technologies while balancing rural energy needs and jobs.[10]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

Nebraska CornGrowers ASSOCIATION

- NeCGA supports the development and recognition of various conservation and production practices that sequester carbon and reduce greenhouse gas emissions.[11]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

U.S. GRAINS COUNCIL

- The U.S. Grains Council is proud to support the climate resiliency work of our sister organizations and corn, sorghum and barley farmers around the country as well as the climate commitments of our agribusiness members, as they commit to continuous improvement in their production practices.[12]

  Commitment Scope: Individual Operations, On-Farm | Commitment Type: Aspirational

USA Rice FEDERATION

- Reduce greenhouse gas emissions by 13% compared to 2015 baseline by 2030.[13]

  Commitment Scope: Individual Operations, Energy, Embedded Emissions | Type: Specific & Dated | Target Type: Intensity

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

SECTION 2

AGRIBUSINESS SECTOR
CLIMATE COMMITMENTS

Field to Market's Agribusiness Sector is comprised of 51 organizations which provide a range of services to both farmers and the supply chain, including grain aggregators, input manufacturers, technology providers, finance companies and others.

Forty-seven percent of agribusiness sector members have made public climate commitments, with thirty-three percent of the sector committing to support farmers in delivering emissions reductions on farm. Twelve percent of the sector's members have established science-based targets to reduce greenhouse gas emissions to limit global warming at or below 2° Celsius.

47%

HAVE MADE PUBLIC CLIMATE COMMITMENTS
that apply to either their operations and/or on-farm impact

AJINOMOTO

1.5°

- Become carbon neutral across overall product lifecycle.[14]

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Undated

- **Reduce absolute scope 1 and 2 GHG emissions 50% by 2030 from a 2018 base year.** [15]

  Commitment Scope: Individual Operations, Energy Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 1.5°C

- **Reduce scope 3 GHG emissions 24% per ton of production by 2030 from 2018 baseline.**[15]

  Commitment Scope: On-Farm | Commitment Type: Specific & Dated | Target Type: Intensity | Validated Pathway: 1.5°C

- Achieve 50% renewable energy use by 2030.[16]

  Commitment Scope: Energy | Commitment Type: Specific & Dated | Target Type: Absolute

Amalgamated Sugar

Pure. Sweet. Grower-Owned.

- Continue to focus on reductions in energy use, air emissions, and excess water discharges as well as increased beneficial reuse of residual products. Amalgamated Sugar grower-owners continue to implement sustainable agricultural practices to protect farm ground and the environment.[17]

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Aspirational

American Society of Agronomy / Certified Crop Adviser

- Seek ways to mitigate climate change to the extent possible by reducing agricultural GHG emissions and sequestering carbon in soils, and to adapt the practices of agriculture and other land uses to the climate manifestations that cannot be prevented.[18]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

Agricultural Retailers Association

- Provide voluntary, incentive-based tools to farmers, ranchers and forest owners so they are able to maximize the sequestration of carbon and the reduction of other greenhouse gas emissions, as well as increase the resilience of the land.
- Offer incentives for farmers to reduce energy consumption, increase use of on-farm renewable energy, and make continued progress toward reducing the lifecycle GHG emissions of agriculture- and forestry-based renewable energy
- Support development and oversight of private sector markets for GHG credits.[19]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

ADM

- Reduce Scope 1 and 2 absolute greenhouse gas emissions by 25 percent and its energy intensity by 15 percent by 2035.[20]

  Commitment Scope: Individual Operations, Energy Commitment Type: Specific & Dated | Target Type: Absolute

Ardent Mills

- Track climate action in our facilities and our offices.
- By 2025, 50% of Ardent Mills' global electricity usage will be powered by renewable energy. [21]

  Commitment Scope: Individual Operations, Energy Commitment Type: Specific & Dated

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

BASF
We create chemistry

- Achieve CO_2-neutral growth until 2030. Maintain total greenhouse gas emissions from our production sites (excluding emissions from sale of energy to third parties) and our energy purchases at the 2018 level (21.9 million metric tons of CO_2 equivalents) while increasing production.
- Net zero CO_2 emissions globally by 2050 based on Scope 1 and Scope 2 emissions of the BASF group, other greenhouse gases are converted into CO_2 equivalents according to the Greenhouse Gas Protocol.
- Reduce GHG worldwide by 25% compared with 2018 emissions.
- Increase the use of renewable energies and accelerate the development and deployment of new CO_2-free processes for the production of chemicals.
- Help farmers achieve a 30% reduction in CO_2 emissions per ton of crop produced. BASF will support farmers to become more carbon efficient and resilient to volatile weather conditions with technologies that increase yield, make farm management more effective, and decrease environmental impact. [22]

Commitment Scope: Individual Operations, Energy, On-Farm
Commitment Type: Specific & Dated | Target Type: Intensity

BUNGE

- Reduce both energy consumption and greenhouse gas emissions per ton of production by 10% by 2026, compared to a 2016 baseline.[23]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated | Target Type: Intensity

Bayer CropScience

1.5°

- **Reduce absolute scope 1 and 2 greenhouse gas emissions 42% by 2029 from a 2019 base year.**[24]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 1.5°C

- **Reduce absolute scope 3 greenhouse gas emissions from purchased goods and services, capital goods, fuel and energy related activities, upstream transportation and distribution, and business travel 12.3% by 2029 from a 2019 base year.**[24]

Commitment Scope: On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 1.5°C

- Work with farmers to reduce the ecological footprint of agriculture, which currently accounts for about 25 percent of greenhouse gas emissions worldwide, by reducing greenhouse gas emissions in major agricultural markets – per kilogram of crop yield – by 30 percent by 2030. [25]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated | Target Type: Intensity

- Become carbon-neutral in its own operations by 2030. [26]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated

- Source 100% of procured electricity from renewable energies by 2030. [25]

Commitment Scope: Individual Operations, Energy, On-Farm, Value Chain | Commitment Type: Aspirational

- As a signatory to the Business Ambition for 1.5°C initiative, strive to attain net zero emissions in its entire value chain by 2050. [25]
Commitment Scope: Individual Operations, Energy, On-Farm, Value Chain | Commitment Type: Aspirational

Cargill

2.0°

- **Reduce our Scope 1 and 2 greenhouse emissions—those caused directly and indirectly by our operations—by 10% by 2025, measured against a 2017 baseline.**[27]

  Commitment Scope: Individual Operations, Energy Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 2.0°C

- **Reduce our Scope 3 emissions—those produced from sources in our extended supply chain—by 30% per ton of product by 2030.**[27]

  Commitment Scope: On-Farm | Commitment Type: Specific & Dated | Target Type: Intensity | Validated Pathway: 2.0°C

CF

- Reduce carbon emissions by:
  - During 2021, develop and prioritize a list of viable GHG reduction capital projects.
  - Reduce total CO_2 equivalent emissions by 25% per ton of product by 2030 (2015 baseline year)
  - Achieve net-zero carbon emissions by 2050.
- Construct North America's first commercial-scale green (fossil fuel-free) ammonia production, with completion expected in 2023. [28]

  Commitment Scope: Individual Operations, Energy | Commitment Type: Specific & Dated

CORTEVA agriscience

- By 2030: Enable farmers to sustainably increase crop yields by 20 percent while also reducing greenhouse gas emissions by 20 percent within cropping systems compared to 2020. [28]
- Achieve a 65% intensity reduction in scope 1 and 2 emissions and 20% intensity reduction in scope 3 emissions by 2030 by committing to company-wide Science Based Targets. [29]

  Commitment Scope: On Farm | Commitment Type: Specific & Dated | Target Type: Intensity

CRA Corn Refiners Association

- Identify and undertake initiatives to reduce the overall carbon footprint of corn refining products and processes.
- Advocate for greenhouse gas reduction goals and targets that are grounded in science, in addition to being clear, measurable, and achievable over time.
- Advocate for research, technical assistance, and incentives to support the adoption of agricultural practices that sequester carbon into the soil.
- Advocate for the recognition of agricultural feedstocks in industrial processes as a key element in advancing greenhouse gas reductions. [31]

  Commitment Scope: Individual Operations, Energy | Commitment Type: Aspirational

DFA Dairy Farmers of America

<2.0°

- **30% reduction in absolute emissions across business (scope 1, 2 and 3) by 2030 from a 2018 baseline.**

  Commitment Scope: Individual Operations, Energy, On-Farm Commitment Type: Specific & Dated | Target Type: Absolute Validated Pathway: Well Below 2°C

- Achieve net zero emissions for our Cooperative by 2050.[32]

  Commitment Scope: Individual Operations, Energy, On-Farm Commitment Type: Specific & Dated

John Deere

- Reduce greenhouse emissions by 15% through 50% renewable electricity supply and excellence in energy efficiency.

  Commitment Scope: Individual Operations, Energy Commitment Type: Specific & Dated

- Reduce environmental impact, including CO_2e emissions, on 90% of new products. Increase the use of sustainable materials by growing remanufactured and rebuild sales by 30 percent and by increasing recyclable, renewable, and recycled content.[33]

  Commitment Scope: On-Farm | Commitment Type: Specific & Undated

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

Marrone Bio Innovations

- Conduct third-party studies to evaluate and quantify the climate and environmental impact and the carbon trading potential of our products, including independent scope 3 life cycle analyses for our entire product portfolio and a scope 1 and 2 analysis of our U.S. operations. [34]

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Aspirational

Nutrien Feeding the Future

- By 2030, achieve at least a 30 percent reduction in greenhouse gas (GHG) emissions (Scope 1 + 2) per tonne of our products produced, from a baseline year of 2018. [35]

  Commitment Scope: Individual Operations, Energy | Commitment Type: Specific & Dated | Target Type: Intensity

NCFC National Council of Farmer Cooperatives

- NCFC supports policies that promote voluntary, incentive-based tools for farmers and ranchers to maximize the sequestration of carbon and the reduction of other GHG emissions, as well as additional technical assistance measures to ensure producers can overcome barriers to adoption of practices that can lead to significant reduction of GHGs and improvements in soil health to increase the resilience of the land. [36]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

OCP North America

- Reduce Sulfur Dioxide (SO_2) emissions 50% from 2014 baseline by 2030.[37]

  Commitment Scope: Individual Operations | Commitment Type: Specific & Dated | Target Type: Absolute

- Achieve carbon neutrality by 2040, and 50% reduction in carbon footprint by 2030.[37]

  Commitment Scope: Individual Operations, Energy Commitment Type: Specific & Dated

- By 2030, meet 100% of our electricity needs though wind, solar and cogeneration production.[38]

  Commitment Scope: Energy | Commitment Type: Specific & Dated

syngenta

<2.0°

- **Reduce the carbon intensity of our operations and supply chain by at least 50% by 2030.**[39]

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Intensity | Validated Pathway: Well Below 2°C

- Strive for carbon neutral agriculture.[40]
  - Measure and enable carbon capture and mitigation in agriculture.
  - Enhance biodiversity and soil health on three million hectares of rural land every year.
  - As part of our Good Growth Plan, we will deliver these commitments by accelerating innovation for farmers and nature, helping people stay safe and healthy and partnering for impact.

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Aspirational

RiceTec

- Partner with growers to help them maximize sustainability efforts in their farming operations.[41]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

TATE & LYLE

- **By 2030, deliver a 30% absolute reduction in Scope 1 and 2 CO_2e emissions, with an ambition to reach a 20% reduction by 2025.**
- **By 2030, deliver a 15% absolute reduction in Scope 3 CO_2e emissions.**

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: Well Below 2°C

- By 2025, eliminate coal from all operations.

  Commitment Scope: Individual Operations, Energy
  Commitment Type: Specific & Dated

- Maintain sustainable acreage equivalent to the volume of corn we buy globally each year, currently 1.5 million acres, and through partnerships accelerate the adoption of conservation practices. [42]

  Commitment Scope: On-Farm Commitment Type: Aspirational

Mosaic

- Reduce greenhouse gas emissions by 20% per tonne of product by 2025.

  Commitment Scope: Individual Operations, Energy
  Commitment Type: Specific & Dated | Target Type: Intensity

- Empower farmers in key growing areas in North America to reduce the impact of crop nutrient products on the environment by facilitating the implementation of 4R Nutrient Stewardship on 25 million acres by 2025.[43]

  Commitment Scope: On-Farm | Commitment Type: Specific & Dated

Valagro

Where science serves nature

- Increase energy efficiency (through the use of cogeneration) and reduce emissions through reorganizable services.[44]

  Commitment Scope: Individual Operations, Energy
  Commitment Type: Aspirational

ZURICH

- Reduce greenhouse gas emissions on USD 5.5 billion of its real estate portfolio by 20% by 2020 and 80% by 2050, as compared to 2010.
- Avoid 5 million tons of CO2-equivalent emissions per year through impact investments.
- Utilize 100% renewable power in all global operations by the end of 2022.
- Launch a carbon removal fund through setting a realistic internal price on carbon emissions for our operations by end of 2021.
- Action over next few years set to curb emissions in line with Paris Agreement ambition to limit global warming to 1.5°C.
- Zurich pledges to use influence as investor and insurer to press for change, and urge companies it invests in to set their own targets for a 1.5°C future. [45]

  Commitment Scope: Individual Operations, Energy, Financed Emissions | Commitment Type: Specific & Dated

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

SECTION 3

BRANDS & RETAIL SECTOR

CLIMATE COMMITMENTS

Field to Market's Brands & Retail Sector is comprised of 19 food, beverage, apparel, restaurant and retail companies.

Ninety-five percent of the sector has made public commitments to climate action in their own operations, with seventy-four percent of the sector committing to drive change among key suppliers and farmers who produce the raw materials in the products they manufacture and sell. Sixty-eight percent of the sector has established science-based targets to reduce greenhouse gas emissions to limit global warming at or below 2° Celsius.

Forward-looking businesses are harnessing climate action as a driver of innovation, competitiveness, risk management and growth, recognizing that collaborating with their supply chain to achieve emissions reductions is paramount to reaching their goals. Bold leadership that align corporate commitments with science signals a recognition that ambitious action is needed to secure a sustainable and resilient future for business, society and the planet.

95%

HAVE MADE PUBLIC CLIMATE COMMITMENTS

that apply to either their operations and/or on-farm impact

American Bakers Association

- Promote increased energy efficiency for the U.S. baking industry by promoting EPA's ENERGY STAR Challenge .[46]

  Commitment Scope: Individual Operations, Energy
  Commitment Type: Aspirational

Corbion

2.0°

- **Reduce CO_2 emissions related to energy, key raw materials, and transport by 33% per ton of product by 2030 from a 2016 base year.**

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Intensity | Validated Pathway: 2.0°C

- Transition to 100% renewable electricity by 2030.

  Commitment Scope: Energy | Commitment Type: Specific & Dated

- Implement energy-saving projects in our manufacturing sites.
- Partner with key raw material suppliers to jointly reduce CO_2 emissions.[47]

  Commitment Scope: On-Farm, Energy | Commitment Type: Aspirational

GENERAL MILLS

1.5° 2.0°

- **Reduce absolute GHG emissions by 30 percent across our full value chain (scopes 1, 2 and 3), from farm to fork to landfill by 2025, using a 2020 base-year.**[48]
  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 1.5°C

- **Reduce GHG emissions across the full value chain by 30% by 2030 and net zero emissions by 2050 in alignment with the new SBTi 1.5°C guidance.**[48]

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 1.5°C

- Advance regenerative agriculture practices on 1 million acres of farmland by 2030.[49]

  Commitment Scope: On-Farm | Commitment Type: Specific & Dated

Ingredion

- Achieve a 25% reduction in absolute GHG emissions by the end of 2030;
- Source 50% of our purchased electricity from renewable sources by 2030.

  Commitment Scope: Individual Operations, Energy
  Commitment Type: Specific & Dated | Target Type: Absolute

- Evaluate on-farm carbon emissions in Brazil and the U.S. using the Cool Farm Tool, currently in its pilot stage. [50]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

Kellogg's®

2.0°

- **Short-Term: Reduce emissions intensity (tonne of CO_2e per tonne of food produced) by 15% by 2020 from a 2015 base-year (scopes 1 & 2).**[51] **(ACHIEVED)**

  Commitment Scope: Individual Operations, Energy
  Commitment Type: Specific & Dated | Target Type: Intensity
  Validated Pathway: 2.0°C

- **Mid-Term: Reduce absolute value chain emissions by 20% from 2015-2030 (scope 3).**[51]

  Commitment Scope: On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 2.0°C

- **Long-Term: Achieve 65% absolute reduction in emissions by 2050 from a 2015 base-year (scopes 1 & 2) and to reduce absolute value chain emissions by 50% from 2015-2050 (scope 3).**[51]

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 2.0°C

- By 2020, improve sustainable agriculture by enabling 500,000 farmers to implement more sustainable farming practices using climate-smart agriculture and reducing post-harvest loss.[52]

  Commitment Scope: On-Farm| Commitment Type: Specific & Dated

- By 2050, source 100% renewable electricity. [52]

  Commitment Scope: Individual Operations, Energy | Commitment Type: Specific & Dated

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

KONTOOR

- Establish a science based target by 2022.
- Power 100 percent of owned and operated facilities with renewable energy by 2025. [53]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated

McDonald's

2.0°

- **Reduce greenhouse gas emissions related to McDonald's restaurants and offices by 36% by 2030 from a 2015 base year.**

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated | Target Type: Absolute
Validated Pathway: 2.0°C

- **Achieve 31% reduction in emissions intensity (per metric ton of food and packaging) across our supply chain by 2030 from 2015 levels.**[54]

Commitment Scope: On-Farm | Commitment Type: Specific & Dated | Target Type: Intensity | Validated Pathway: 2.0°C

Mondelēz International SNACKING MADE RIGHT

<2.0°

- **Reduce absolute end-to-end greenhouse gas emissions by 10% by 2025, compared to 2018.**

Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute| Validated Pathway: Well Below 2.0°C

- Reduce emissions across our manufacturing operations by 15% by the end of 2020.[55] (ACHIEVED)

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated | Target Type: Absolute

Nestlé PURINA

1.5°

- **Reduce absolute scope 1, 2 and 3 GHG emissions 20% by 2025 and 50% by 2030 from a 2018 base year;**[55]

Commitment Scope: Individual Operations, Energy, On-Farm
Commitment Type: Specific & Dated | Committed Pathway: 1.5°C

- **Increase annual sourcing of renewable electricity from 40% in 2019 to 100% by 2025;**[56]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated | Target Type: Intensity
Validated Pathway: 1.5°C

- Achieve zero net greenhouse gas emissions by 2050 and limit global temperature rise to 1.5°C; [57]

Commitment Scope: Individual Operations, Energy | Commitment Type: Specific & Dated

- By 2020, reduce GHG emissions (scope 1 and 2) per tonne of product in every product category to achieve an overall reduction of 35% in our manufacturing operations versus 2010 [58]. (ACHIEVED)

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated

PEPSICO

1.5°

- **Reduce absolute GHG emissions across its direct operations (Scope 1 and 2) by 75% and its indirect value chain (Scope 3) by 40% by 2030 (2015 baseline).**

Commitment Scope: Individual Operations, Energy, On-Farm
Commitment Type: Specific & Dated | Target Type: Absolute
Validated Pathway: 1.5°C

- Achieve net-zero emissions by 2040.[60]

Commitment Scope: Individual Operations, Energy, On-Farm
Commitment Type: Specific & Dated

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

P&G

<2.0°

- Achieve net zero greenhouse gas (GHG) emissions across its operations and supply chain, from raw material to retailer, by 2040.[61]

  Commitment Scope: Individual Operations, Energy
  Commitment Type: Specific & Dated

- **Reducing emissions across our operations by 50 percent.** [62]
- **Reduce emissions across our supply chain by 40 percent.** [62]
- Purchase 100% renewable electricity and cut GHG emissions in half at P&G sites by 2030 from a 2010 baseline.[62]

  Commitment Scope: Individual Operations, Energy
  Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: Well Below 2.0°C

TARGET

2.0°

- **By 2030, Target commits to reduce our Scope 1 and 2 emissions by 50% below 2017 levels.**[63]

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 2.0°C

- **By 2030, Target commits to achieve 30% absolute reduction in supply chain emissions (scope 3) covering retail purchased goods and services from a 2017 base-year.**[63]

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 2.0°C

- **By 2023, 80% of Target's suppliers by spend covering all purchased goods and services will set science-based scope 1 and scope 2 targets.**[63]

  Commitment Scope: Supply Chain | Commitment Type: Specific & Dated | Validated Pathway: 2.0°C

- By 2025, Target commits to engage suppliers to prioritize renewable energy and collaborate on solutions that protect, sustain and restore nature. [64]
  Commitment Scope: Supply Chain | Commitment Type: Aspirational

- By 2040, Target commits to be a net zero enterprise to reduce climate impacts across operations and supply chain. [63]

  Commitment Scope: Individual Operations, Energy | Commitment Type: Specific & Dated

The Coca-Cola Company

2.0°

- Reduce the carbon footprint of the "drink in your hand" by 25% by 2020 against a 2010 baseline. (ACHIEVED) [65]

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Intensity

- **Reduce absolute scope 1, 2, and 3 GHG emissions 25% by 2030 from a 2015 base-year.** [65]

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 2.0°C

- Our ambition is to achieve net-zero carbon emissions by 2050. [65]

  Commitment Scope: Individual Operations, Energy, | Commitment Type: Specific & Dated

SMUCKER'S
THE J. M. SMUCKER COMPANY

- **Reduce absolute Scope 1 and 2 GHG emissions 28% by 2030 from a 2019 base year.**[66]
- **Reduce Scope 3 GHG emissions 22% per unit of sold product over the same target period.** [66]

  Commitment Scope: Individual Operations, Energy, On-Farm Commitment Type: Specific & Dated | Target Type: Intensity | Validated Pathway: Well-below 2°C

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

Unilever

- **Net zero emissions from all our products (from sourcing to point of sale) by 2039.**[67]

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute | Committed Pathway: 1.5°C

- Accelerate climate action by collectively investing €1 (USD 1.2) billion from Unilever brands in a dedicated Climate & Nature Fund.[67]

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated

- **Reduce scope 1 and 2 greenhouse gas emissions by 100% from our own operations by 2030 from a 2015 base year (part of our ambition to become carbon positive in our manufacturing by 2030) by eliminating fossil fuels entirely and move to 100% renewable energy across our operations.**[68]

  Commitment Scope: : Individual Operations, Energy Commitment Type: Specific & Dated | Validated Pathway: 1.5°C

- **Cut GHG emissions of our products' life-cycle across the lifecycle by 50% by 2030 from a 2010 base-year.**[68]

  Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Validated Pathway: 1.5°C

Upfield

- Introduce carbon labelling on 100 million packs of our plant-based spreads, plant butter and plant-based creams by the end of 2021 to help consumers make informed choices about the environmental impact of the foods they choose.[67]

  Commitment Scope: Scope 3 - Embedded Consumer Emissions/Use of Sold Products | Commitment Type: Specific & Dated

- Take action to ensure responsible and sustainable sourcing of our natural ingredients because we know that the biggest impact in our own footprint comes from growing crops, which accounts for over 75% of our total carbon footprint.[68]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

- Promote regenerative agricultural practices by providing farmers with information and education, and financial support to plant cover crops on 13,000 new acres in 2020.[69]

  Commitment Scope: On-Farm | Commitment Type: Specific & Dated

- We're aiming to reduce our carbon emissions, our use of plastic in packaging and the practices we employ to source our ingredients. [68]

  Commitment Scope: Individual Operations, Energy Commitment Type: Specific & Dated

Walmart

Save money. Live better.

- **Reduce absolute Scopes 1 and 2 GHG emissions by 35% by 2025 and by 65% by 2030 (2015 base year).** [70]

  Commitment Scope: Individual Operations, Energy Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 1.5°C

- **By 2030, work with suppliers to reduce or avoid carbon dioxide equivalent (CO_2e) emissions from Scope 3 by one gigaton from global value chains.** [70]

  Commitment Scope: On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute

- Reach zero emissions across the company's global operations by 2040. [70]

  Commitment Scope: Individual Operations, Energy Commitment Type: Specific & Dated

- Help protect, manage or restore at least 50 million acres of land and one million square miles of ocean by 2030 to help combat the cascading loss of nature threatening the planet through driving the adoption of regenerative agriculture practices, sustainable fisheries management and forest protection and restoration. [72]

  Commitment Scope: On-Farm | Commitment Type: Specific & Dated

- Committed to 100% renewable electricity by 2035. [71]

  Commitment Scope: Individual Operations, Energy | Commitment Type: Specific & Dated

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

WESTON FOODS

- 20% intensity-based greenhouse gas emissions reduction by 2025 against a 2015 baseline.

  Commitment Scope: Individual Operations, Energy | Commitment Type: Specific & Dated

- Leverage momentum in greenhouse gas reduction to drive further improvement plan by 2030.
- Strive to become carbon neutral across our operations in the future.
- Continue to drive greenhouse gas emission reductions across our network. [73]

  Commitment Scope: Individual Operations, Energy | Commitment Type: Aspirational

SECTION 4

CIVIL SOCIETY SECTOR
CLIMATE COMMITMENTS

Field to Market's Civil Society Sector is comprised of 11 organizations united through their commitment to conservation and serving in the public interest. As the Shared Vision for Climate Action signed by the sector last year demonstrates, Civil Society has a vital role to play in accelerating action and grounding corporate, state and federal responses in what is required by science.

From advocating for new climate and agricultural policies to holding both governments and companies to account on their commitments and progress, this sector has an outsized role in accelerating climate action. All eleven organizations in the sector have made public commitments to support farmers and the value chain in not only understanding the science, but also implementing the strategies and interventions needed to enable the industry to contribute towards a net-zero economy and climate-safe future.

100%

HAVE PUBLIC COMMITMENTS

to support farmers and the supply chain on climate action

American Farmland Trust

- AFT is committed to making U.S. agriculture climate neutral. To do so, we are elevating the role of farmers and farmland in adapting to and mitigating the effects of climate change. From policy leadership, coalition building, and training, to research and on-the-ground demonstration projects, we are working to scale up the adoption of regenerative and soil health promoting agricultural systems. This will ensure a prosperous and resilient future for farmers and the land that sustains us.[70]

Commitment Scope: On-Farm | Commitment Type: Aspirational

CTIC

- Advance practical systems that improve soil health and water quality, reduce greenhouse gas emissions, enhance resilience to intensifying climate change, and deliver other environmental benefits.
- Connect stakeholders committed to improving the sustainability of American agriculture, including reducing agriculture's greenhouse gas footprint, and serve as an unbiased source of information for the trends in adoption of conservation practices and how they help farmers adapt to current climate changes and mitigate future impacts.[71]

Commitment Scope: On-Farm | Commitment Type: Aspirational

Ducks Unlimited

- Ducks Unlimited aims to bring industry and landowners together by facilitating conservation-based climate solutions associated with grassland, cropland, forest, and wetland restoration and/or preservation. Beyond the carbon savings, these efforts have the opportunity to provide more resilient systems for landowners and further Ducks Unlimited's conservation mission by increasing waterfowl habitat in our priority areas.[72]

Commitment Scope: On-Farm | Commitment Type: Aspirational

Ecosystem Services Market Consortium

- Launch a fully functioning national scale ecosystem services market conceived and designed to sell both carbon (soil carbon and GHG) and water quality and quantity credits for the agriculture sector by 2022.[73]

Commitment Scope: On-Farm | Commitment Type: Aspirational

EDF Environmental Defense Fund

Finding the ways that work

- Build climate resilience in agriculture.
- Increase investments in conservation practices like cover crops and no-till that have proven time and again to deliver a clear ROI — reducing risk and environmental impacts all while increasing yield and building climate resilience. Innovative loans, crop insurance programs, tax incentives and other financial incentives can help make these practices the norm.
- Increase confidence in soil carbon credits and agricultural carbon markets by advocating for science-based standards for high-quality credits and supporting consistent, credible and cost-effective measurement and verification. Make it easier for farmers to participate in agricultural carbon markets and benefit from contributing to climate mitigation and resilience.
- Make the invisible loss of nitrogen pollution visible by equipping farmers with better data, analytics tools and environmental models. With a user-friendly, scientifically robust way to assess environmental results, farmers can deliver quantifiable improvements for climate resilience, air quality, water quality and their bottom line. [74]

Commitment Scope: On-Farm | Commitment Type: Aspirational

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

Environmental INITIATIVE
Powerful Partnerships, Effective Solutions

- Deliver farmer-led innovative solutions to accelerate improvements in the environment, particularly for water quality, soil health, habitat, and climate protection.[75]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

National Association of Conservation Districts

- Create a network of almost 300 Soil Health Champions who implement good soil health practices on their operations and promote the use of soil health management systems in their communities. [76]
- Focus outreach efforts on the economic and resiliency benefits that improved soil health provides, accomplishing benefits through reduced greenhouse gas emissions and greater carbon sequestration in our nation's agricultural soils. [76]
- Work cooperatively with federal, state and other local resource management agencies and private sector interest groups to provide technical, financial and other assistance to help landowners and operators apply conservation to the landscape. [76]
- In 2021, NACD announced the formation of a Climate Action Task Force to assess current and emerging climate policy opportunities and make recommendations to NACD's leadership that utilize the technical knowledge and expertise of conservation districts as part of the U.S. solution to the global climate crisis. [77]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

PHEASANTS forever

- Promote natural ecosystems-based solutions that help sequester carbon and contribute to climate resiliency.
- Conserve upland habitat, based on principles and the improving scientific understanding of how our programs across the nation benefit wildlife while capturing carbon, reducing soil erosion, and improving water and air quality, in addition to providing numerous other ecological goods and services. [78]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

SAND COUNTY FOUNDATION

- Empower farmers with real-time, on-farm data of how their conservation practices impact soil trafficability, temperature, and nutrient runoff potential, demonstrating how their management influences soil properties critical to climate resiliency and nutrient transport. [79]
- Demonstrating the conservation and economic benefits of rotational grazing livestock on cover crops, positively impacting soil health, nutrient runoff reduction, and feed cost efficiency. [80]
- Increase terrestrial habitat to benefit grassland birds and pollinators; reduce nutrient and sediment loss from vulnerable lands; and improve the economic well-being of farmers and rural communities. [81]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

The Nature Conservancy

- Achieve widespread adoption of adaptive soil health systems on 50 percent of U.S. row crops by 2030. [82]
- Our institutional goal is to help to reduce emissions and increase sequestration by 3 billion metric tons of CO2 equivalent per year by 2030. To reach that, we will continue to pursue solutions that protect, restore and improve management of lands, freshwater and oceans to benefit biodiversity, enhance livelihoods and reduce risks to people most vulnerable from a changing climate. [82]

WWF

- Create a climate-resilient and zero-carbon world for people and nature.[109]
- Support businesses on their path to align with a 1.5°C world and achieve net-zero emissions by 2050, while providing a blueprint for companies to go beyond Science-Based Targets and invest in nature.
- Transform the industrial sector by working with companies to deploy renewable thermal solutions.
- Provide guidance to companies to manage climate risk while maintaining their sustainability goals.
- Engage companies, platforms, sectors and governments to reduce key impacts of food production.[111]

Commitment Scope: Supply Chain, On-Farm | Commitment Type: Aspirational

SECTION 5

AFFILIATE SECTOR
CLIMATE COMMITMENTS

Representing universities, government, and professional services, Field to Market's Affiliate Sector is comprised of 42 organizations and institutions. Thirty-one affiliate sector members have set public climate commitments.

The following commitments reflect a broad range of climate action, from addressing on-campus carbon impacts to broader research and outreach efforts targeted at supporting farmers and the supply chain in mitigating and adapting to the impacts of the climate crisis. With research showing that large universities produce emissions profiles that rival small cities, the commitments from seventeen colleges and universities reflect an unparalleled opportunity for academia to serve as living laboratories to achieve a climate-secure future and modeling the transformation needed across all sectors. Similarly, commitments from five public-sector partners to support farmers in adopting climate-smart farming practices will be key to meeting USDA's Ag Innovation Agenda goal to increase agricultural production 40 percent while cutting agriculture's environmental footprint in half by 2050.

74%

HAVE SET PUBLIC CLIMATE COMMITMENTS

- By 2024, Auburn University will achieve a:
  - 10% reduction from a 2008 baseline in electricity emissions;
  - 15% cap in growth from a 2008 baseline in on-campus stationary combustion emissions;
  - 30% reduction from a 2008 baseline in other campus emissions;
- Collectively these efforts mean Auburn University will reduce total emissions by 20% from a 2008 baseline. [85]

Commitment Scope: Individual Operations, Energy | Commitment Type: Specific & Dated

- Building on insights from the behavioral sciences, we test prevailing wisdom about conservation outreach, as well as new innovative ideas for more effectively engaging agricultural producers. The goal is to identify how programs can be made more attractive to producers, more effective in encouraging the adoption of sound conservation practices and more likely to bring about the environmental improvements, including climate change mitigation.[86]

Commitment Scope: On-Farm | Commitment Type: Aspirational

- CDA is very committed to supporting voluntary, incentive-based stewardship practices led by conservation districts, farmers and ranchers that improve soil health, advance water conservation, drought resilience and help mitigate climate change through the implementation of natural climate solutions.[87]

Commitment Scope: On-Farm | Commitment Type: Aspirational

- Reduce CSU's net emissions to achieve climate neutrality by 2040;
- Transition to 100% renewable electricity by 2030;

Commitment Scope: Individual Operations, Energy | Commitment Type: Specific & Dated

- Provide research-based information for agricultural producers to improve the resiliency of farms and ranches, and the overall food system, in a changing climate. [88]

Commitment Scope: On-Farm | Commitment Type: Aspirational

- Achieve net zero greenhouse gas emissions by 2050.
- Annual reduction in absolute emissions expressed as a percent of 2019 emissions:
  - 2025 target: 15%
  - 2030 target: 42%
  - 2035 target: 63%
  - 2050 target: 100% [89]

Commitment Scope: Individual Operations, Energy | Commitment Type: Specific & Dated

- Achieve a carbon neutral campus by 2035 for the Ithaca campus.

Commitment Scope: Individual Operations, Energy | Commitment Type: Specific & Dated

- Innovate technology, financial instruments, and policy to reduce greenhouse gas concentrations.[90]

Commitment Scope: Individual Operations, Energy Commitment Type: Aspirational

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

Dartmouth

- Reduce greenhouse gas emissions from 2010 levels by 50 percent by 2025 and by 80 percent by 2050.
- Transition the heating system from No. 6 fuel oil to renewable sources by 2025.
- By 2025, obtain 50% of Dartmouth's energy supply from renewables.
- By 2050, obtain 100% of Dartmouth's energy supply from renewables.
- Develop a carbon neutral, affordable energy supply by 2100.
- Establish a better system to distribute energy across campus, improving efficiency by 20 percent.[91]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated

Farm Journal MEDIA

- Help farmers enrich soils, protect waters, clear skies and nurture habitats, working to accelerate the transition to more regenerative and resilient agricultural systems.[92]

Commitment Scope: On-Farm | Commitment Type: Aspirational

Iowa State University

- 50% reduction of university greenhouse gas emissions by 2025 by ending the use of coal, improving building energy efficiency and tripling the use of renewable energy.
- Convert the remaining coal boilers in the university power plant to use natural gas by 2025.
- Reduce building energy use by 5% from a FY 2012 baseline. [93]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated

IPM Institute of North America

- Partner with food and agriculture industry leaders to create sustainable outcomes for companies, communities and the climate. [94]

Commitment Scope: Supply Chain Commitment Type: Aspirational

Kansas State University

- Reduce carbon intensity and total carbon emissions from university activities by 80% by 2050 from a 2005 benchmark.[95]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated

AgBioResearch Michigan State University

- Reduce greenhouse gas emissions 45% by 2020.
- Increase energy efficiency in buildings by 20% by 2020.
- Increase renewable energy portfolio to 20% by 2020.[96]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated

Minnesota Water Quality Certified Farm

- Collaborate on efforts to advance climate and ecosystem services markets for the purpose of capturing all the associated benefits.
- Capture the climate benefits of our on-the-ground conservation interventions with our certified farms.[97]
- Recognize producers who are going above and beyond to implement practices that reduce greenhouse gas emissions and sequester carbon through the Climate Smart Farm Endorsement program

Commitment Scope: On-Farm | Commitment Type: Aspirational

- Reduce greenhouse gas emissions by 5 million tons through the conservation practices adopted to earn MAWQCP certification.[98]

Commitment Scope: On-Farm | Commitment Type: Specific & Undated

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

- Achieve net-zero campus carbon emissions by 2026, with a goal of eliminating direct emissions by 2050. [99]

  Commitment Scope: Individual Operations, Energy
  Commitment Type: Specific & Dated

- Advance a sustainable, prosperous world through scientific analysis of the complex interactions among co-evolving, interconnected global systems.[100]

  Commitment Scope: Supply Chain, On-Farm | Commitment Type: Aspirational

- Support voluntary, incentive-based climate smart agricultural programs designed to sustainably increase agricultural productivity and incomes; help farmers and ranchers build resiliency and climate adaptation; and, reduce and/or remove greenhouse gas emissions, where possible.[101]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

- Educate agricultural and forestry leaders on the potential impacts of climate change in ways relevant to their daily lives;
- Equip producers with the tools and knowledge they need to make informed decisions and manage new risks under changing conditions;
- Mobilize thought leaders to advocate for needed changes in land use practices, research, education and policy; and
- Inspire agricultural and forest sector leaders to become leaders in the broader discussion of climate change, including adaptation and mitigation.[102]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

- Reduce total greenhouse gas emissions by 25 percent from the 2008 baseline by 2022.[103]
- Reduce existing building annual energy use per square foot by 40 percent from the 2002 baseline.
- Expand the amount of renewable energy used to meet NC State's needs.

  Commitment Scope: Individual Operations, Energy
  Commitment Type: Specific & Dated

- Provide access to tools to create a baseline on farm soil health and greenhouse gas emissions that may support future participation in carbon or ecosystem services markets.
- Develop an interoperable suite of tools to enable greenhouse gas emissions and carbon accounting that can allow the stacking of environmental claims, credits and conservation benefits at the producer level. [104]

  Commitment Scope: On-Farm | Commitment Type: Aspirational

- Reduce greenhouse gas emissions 35% from 2005 baseline by 2020.
- Reduce greenhouse gas emissions 80% from 1990 baseline by 2050.[105]

  Commitment Scope: Individual Operations, Energy
  Commitment Type: Specific & Dated

- Become carbon neutral as a business and across our products by 2025.
- Become zero waste and net zero carbon by 2030 or earlier.[106]

  Commitment Scope: Individual Operations, Energy
  Commitment Type: Specific & Dated

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

SOIL HEALTH INSTITUTE

- Meet the triple challenge of climate change, water quality, and food security by implementing a strategic approach for tackling the financial, technical, and educational barriers to adopting soil health systems. Addressing these barriers to adoption will enable farmers and ranchers to achieve net zero carbon emissions from agricultural land in the United States by 2040.[107]

Commitment Scope: On-Farm | Commitment Type: Specific & Dated

SUSTAINABLE FOOD LAB

- Help organizations test and implement innovations in sustainability in the mainstream food system.
- Our work grounds aspirational goals such as addressing climate change, farmer poverty and soil health, with practical solutions such as supporting markets for small grains rotations and GHG measurement tools. [108]

Commitment Scope: Supply Chain, On-Farm | Commitment Type: Aspirational

Gold Standard

- Help businesses and investors more efficiently and credibly quantify and report on the social and environmental impacts yielded from a wide range of sustainability interventions possible under Gold Standard for the Global Goals—a best practice standard for climate and sustainable development interventions to maximize impact, creating value for people around the world and the planet we share.[109]

Commitment Scope: Supply Chain, On-Farm | Commitment Type: Aspirational

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

- Achieve a 50% reduction in greenhouse gas emissions per weighted campus user by 2030.
- Achieve net-zero emissions by 2050.[110]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated

U.S. COTTON TRUST PROTOCOL

- Keep global warming below 1.5 degrees by reducing greenhouse gas emissions by a target of 39% by 2025.
- Cotton Trust Protocol members have committed to a 30% increase in soil carbon
- Commit to pursue energy efficiency across the value chain with a 15% target decrease. [111]

Commitment Scope: On-Farm | Commitment Type: Specific & Dated

UofA UNIVERSITY OF ARKANSAS DIVISION OF AGRICULTURE

- Short Term: Mitigate Metric Tons of Carbon Dioxide Equivalent (MTCDE) to 2002 level by 2016 (ACHIEVED).
- Medium Term: Return to 1990 emission levels (125,000 MTCDE) by 2021.
- Long Term: Become net carbon neutral by 2040. Long term solutions for reaching carbon neutrality by 2040 depend on energy conservation, renewable energy generation, and carbon sequestration.[112]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated

The University of Georgia

- Increase purchase of energy from renewable sources by 10 percent by 2020
- Increase generation of energy from renewable sources by 10 percent by 2020
- By 2020, reduce energy use intensity by 35% from 2010 baseline
- By 2040, reduce energy use intensity by 50% from 2010 baseline.
- By 2060, reduce energy use intensity by 70% from 2010 baseline.
- By 2060, supply 25% of overall electricity use with on-site renewable energy generation and purchase at least 20% of remaining electricity demand from renewable sources. [113]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

N EXTENSION

- Employ carbon neutral electricity sources by 2025; reduce the energy use intensity of buildings by 10% from 2018; and reduce distributed-source GHG emissions by 25% from baseline year 2018 by 2025.
- Achieve net-zero CO_2 emissions and net zero energy ready buildings based on the triple bottom line analysis – people, productivity, and planet.
- Establish the policy, governance and administrative infrastructure that results in a highly-efficient campus with net-zero CO_2 emissions and net zero energy readiness by 2050.[114]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated

UT EXTENSION INSTITUTE OF AGRICULTURE THE UNIVERSITY OF TENNESSEE

- By FY 20-21, reduce/offset GHG emissions to 20 percent below FY 07-08 levels.
- By FY 30-31, reduce/offset GHG emissions to 40 percent below FY 07-08 levels.
- By FY 40-41, reduce/offset GHG emissions to 60 percent below FY 07-08 levels.
- By FY 50-51, reduce/offset GHG emissions to 80 percent below FY 07-08 levels.
- By FY 60-61, achieve climate neutrality (zero net GHG emissions).
- Reduce energy consumption to 1992-93 levels by 2030.
- Increase renewable energy procurement to make up at least 20% of total electricity use by 2030.[115]

Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated

COLLEGE OF AGRICULTURAL & LIFE SCIENCES University of Wisconsin-Madison

- Develop a campus wide Climate Action Plan to increase resilience.
- Evaluate climate change impacts on Wisconsin and foster solutions.[116]

Commitment Scope: Individual Operations, Energy, On-Farm
Commitment Type: Aspirational

USDA United States Department of Agriculture Natural Resources Conservation Service

- Provide technical information on USDA programs and conservation practices which enhance soil carbon sequestration, reduce greenhouse gas emissions and build a more resilient landscape. Conservation practices may provide agricultural producers with access to new environmental market opportunities, including carbon markets and sustainable supply chain initiatives.
- Invest in providing farmers, ranchers and private forest landowners with the best available technical assistance and quantification methodologies, underpinned by the innovative carbon sequestration and healthy soils language written into the 2018 Farm Bill and the Agriculture Innovation Climate-Smart Agriculture and Forestry Agenda.
- Employ proven conservation practices to achieve enhanced productivity and economic sustainability for U.S. agriculture and forestry; improved ecological, social, and economic
- Resilience to climate change; increased carbon sequestration; and reduced greenhouse gas emissions.
- Advance a climate smart strategy that furthers equity, environmental, and racial justice, and is accessible to all and will benefit all farmers, landowners, land managers, Tribes, and communities. [117]

Commitment Scope: On-Farm | Commitment Type: Aspirational

TARGETS ON-FARM EMISSIONS | SCIENCE-BASED TARGET — VALIDATED PATHWAYS: 1.5° <2.0° 2.0°

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