



Field to Market®



CLIMATE ACTION IN FOOD AND AGRICULTURE

A COMPENDIUM OF FIELD TO MARKET MEMBER CLIMATE COMMITMENTS

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INTRODUCTION

At the start of a new decade, the U.S. agriculture sector is facing unprecedented challenges from climate related impacts. Prolonged droughts, devastating wildfires, historic flooding, intense storms and other extreme weather events threaten to reverse long-term productivity gains at a time when global demand for food is rising.

Meanwhile, an increasing number of companies across the food and agriculture value chain have responded by establishing ambitious, science-based greenhouse gas reduction targets. The U.S. Department of Agriculture also recently announced its [Agriculture Innovation Agenda](#), which aims to increase agricultural production by 40 percent while cutting the environmental footprint of U.S. agriculture in half by 2050.

Farmers find themselves at the center of the action—as a source of greenhouse gas emissions, a solution for carbon sequestration and the sector most at risk from increasingly volatile weather. It is more apparent than ever before that the entire industry must work together to support farmers in building greater resilience to climate impacts while delivering on urgent environmental goals.

Perhaps more than any other industry, farmers are uniquely positioned to deliver natural climate solutions. While other sectors like transportation, energy and manufacturing can only limit the amount of greenhouse gases entering the atmosphere, better farming practices can sequester carbon in the soil—providing climate mitigation while also regenerating farmland for future generations.

Field to Market is pleased to provide a compendium of our members' public climate commitments. This report celebrates leadership on climate action while also underscoring how greater collective action can result in a more sustainable and resilient food and agricultural system. It 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, 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** – Sustainability champions within our member organizations can use the goals they have set, along with commitments their peers have made, to prioritize climate action;
- **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.

Of course, setting goals is only the first step. Field to Market is working with our members to translate ambition into action. Our sustainability metrics, process-based standard and Continuous Improvement Accelerator provide a vehicle for supply chain collaboration that can deliver meaningful impact at the field and landscape levels.

Lastly, this compendium will be updated annually on Field to Market's website to reflect the current state of the industry's commitments. We hope that by continuing to synthesize these goals in one place, we can harness the collective ambition of the entire value chain to drive progress on climate action across U.S. agriculture.

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

KEY FINDINGS

89

Field to Market members have established **public climate commitments**, representing 57% of the Alliance's nearly 150 member organizations

50%

of Field to Market's 64 corporate members across agribusiness and brands and retail have set **specific, measurable targets** for emissions reduction

28%

of Field to Market's 64 corporate members have established **science-based targets** for greenhouse gas emissions reductions

3

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

A SHARED VISION ON CLIMATE ACTION



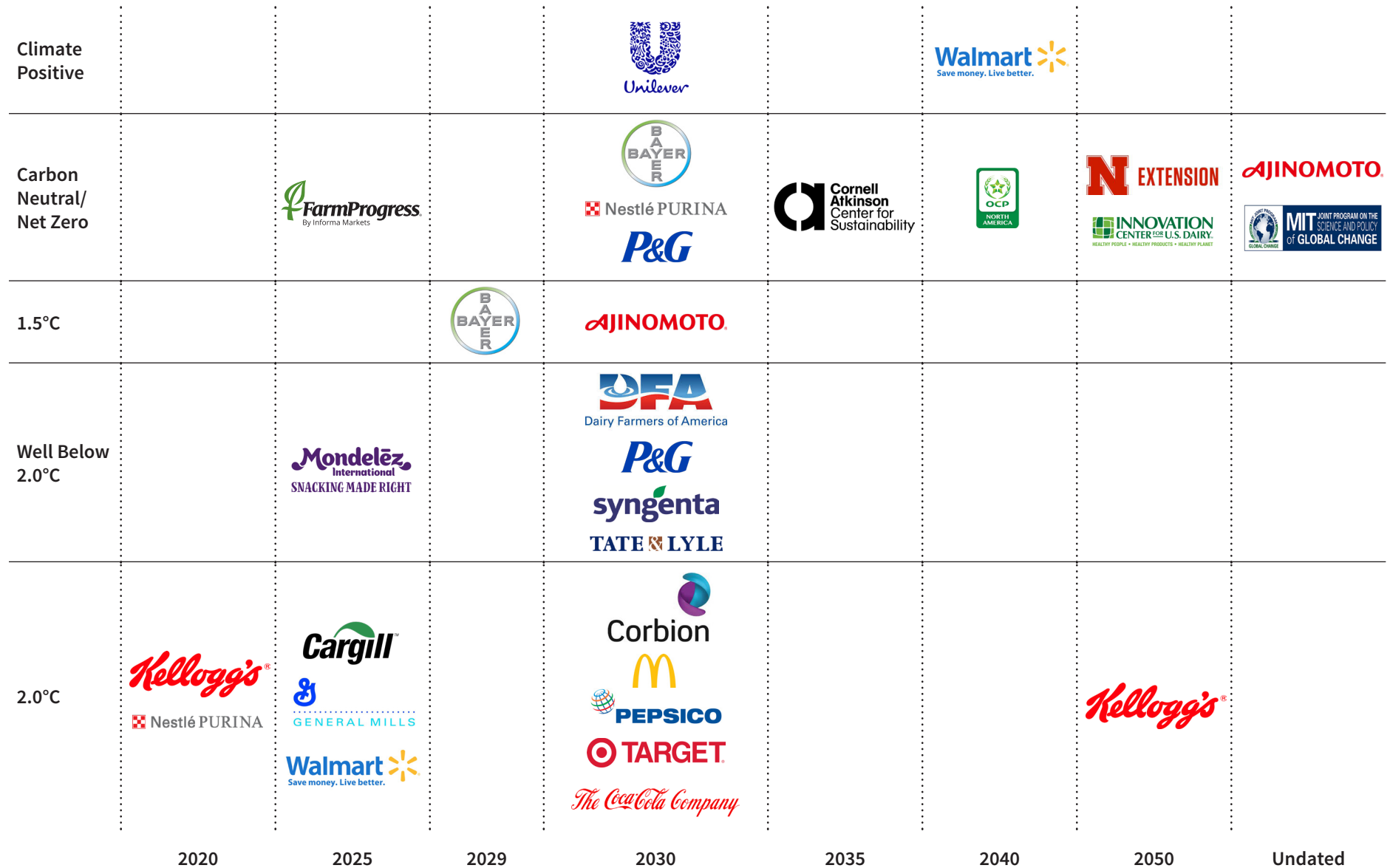
As members of Field to Market’s Civil Society Sector, we have the opportunity to work with companies and growers across the agricultural value chain on strategies to advance sustainability and address climate change.

Agriculture is an industry with much at stake—as a source of greenhouse gas emissions, a solution for carbon sequestration and the sector most at risk from increasingly volatile weather patterns. We celebrate the leading companies and organizations that have established public commitments to climate action in recent years, and we are eager to work alongside the industry to achieve much needed progress. In addition, we believe multi-stakeholder collaboration is critical to our success and urge the industry to support farmers in building resilience and overcoming agronomic and financial risk associated with conservation adoption. We recognize the urgency of this moment and call upon all stakeholders across the food and agriculture value chain to commit to meaningful action that matches the scale and pace that is needed to meet what climate science requires.

























- **Make a Public, Science-Based Commitment** – Develop a comprehensive and transparent policy on sustainable agriculture that includes time-bound commitments for improved environmental outcomes, which are aligned with what science requires of food and agriculture. Ensure this policy includes setting a validated science-based target for greenhouse gas emissions reduction that limits global warming to well below 2°C and pursues efforts to limit it to 1.5°C.
- **Consider Broader Sustainability Impacts** – While greenhouse gas goals are critical, ensure sustainable agriculture strategies consider trade-offs and include multiple indicators such as water quality and quantity, biodiversity, soil health and preservation of high conservation value land.
- **Track and Report Progress with Data** – Monitor the sustainability of agricultural commodities through on-farm data collection with a pre-competitive suite of science- and outcomes-based sustainability metrics. Strengthen credibility by making aggregate information regarding environmental performance publicly available and reporting progress against public targets.
- **Leverage Sourcing Strategies** – Align procurement decisions with sustainability programs within supply chains to ensure maximum impact of corporate strategies.
- **Support Farmer Resilience** – Help farmers build resilience in their operations by accelerating adoption of climate-smart farming practices that improve soil health.
- **Incentivize Conservation Adoption** – Support farmers in accelerating sustainability outcomes by sharing in the agronomic and financial risk through support of financial products, voluntary ecosystem services markets and public policy to scale conservation adoption.
- **Foster Climate Justice** – Ensure climate mitigation efforts actively improve socioeconomic status and the local environment for the most vulnerable communities in the United States and around the globe.
- **Embrace Collaboration** – Commit to pre-competitive approaches to measurement, reporting and verification and support multi-stakeholder collaborations that expand our collective impact.

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 committing 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



Scope 3 Commitments

Climate Positive								
Carbon Neutral/ Net Zero					Unilever	 GENERAL MILLS  INNOVATION CENTER FOR U.S. DAIRY HEALTHY PEOPLE • HEALTHY PRODUCTS • HEALTHY PLANET  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		 DFA Dairy Farmers of America	 syngenta  TATE & LYLE			
2.0°C	 Nestlé PURINA	 GENERAL MILLS		 Cargill	 Corbion	 Kellogg's	 M	 PEPSICO  TARGET  The Coca-Cola Company
	2020	2025	2029	2030	2039	2050	Undated	



SECTION 1 GROWER SECTOR CLIMATE COMMITMENTS

Field to Market’s Grower Sector is comprised of 24 organizations representing commodity crop producers at both the state and national level. 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 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. CO₂ emitted as a result of diesel used in tractors and farm machinery, gas for heating, land use change; N₂O from manure and/or nitrogen fertilizer application; and CH₄ 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.

50%
HAVE MADE PUBLIC
CLIMATE COMMITMENTS
to help farmers mitigate and
adapt to climate change



AMERICAN PEANUT COUNCIL



- 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 CO₂-equivalent gases emitted 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



- Our vision is to be a market leader in sustainable soybean production and profitability by increasing demand and advocacy. We are committed to demonstrating the sustainability value of soybean production and improving the adoption of best management practices.⁶

Commitment Scope: Individual Operations, Energy, Embedded Emissions | 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

U.S. DAIRY INDUSTRY



- The U.S. Dairy Industry commits to collectively become carbon neutral or better by 2050.⁸

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



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET — VALIDATED PATHWAYS:





- Continuously improve the production of corn, a versatile crop providing abundant high-quality food, feed, renewable energy, biobased products, and ecosystem services. As stewards of the land, we understand the responsibility we have for creating a more environmentally and economically sustainable world for future generations with transparency and through continued advances and efficiencies in land, water and energy use.
- Establish an industry-wide greenhouse gas emissions reductions goal by 2021.⁹

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



- Empower family farmers to lessen the negative impacts of climate change and support policies, collaborations with consumers, and efforts throughout the agricultural value chain that support research, cost-share and other incentives to help family farmers install and manage practices and infrastructure that mitigate climate change and sequester carbon.¹⁰

Commitment Scope: On-Farm | Commitment Type: Aspirational



- Partner with farmers to explore the economic and environmental benefits and risks of soil health practices.¹¹

Commitment Scope: On-Farm | Commitment Type: Aspirational



- Reduce greenhouse gas emissions by 13% compared to 2015 baseline by 2030.¹²

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



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET — VALIDATED PATHWAYS:





SECTION 2

AGRIBUSINESS SECTOR CLIMATE COMMITMENTS

Field to Market’s Agribusiness Sector is comprised of 52 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-four percent of agribusiness sector members have made public climate commitments, with 23 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.



44%

**HAVE MADE PUBLIC
CLIMATE COMMITMENTS**

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



- Become carbon neutral across overall product lifecycle.¹³
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.**¹⁴
*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



- Utilize Certified Crop Advisers to help farmers to become better acquainted with and adopt/enhance/implement sustainability concepts, stewardship, and best management practices within their operations. Offer Sustainability Specialty certification for Certified Crop Advisers, including Air Quality as one of four leading environmental and resource efficiency core competencies.¹⁸
Commitment Scope: On-Farm | Commitment Type: Aspirational



Reduce Scope 1 and 2 absolute greenhouse gas emissions by 25 percent and its energy intensity by 15 percent by 2035.¹⁹

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



- Achieve CO₂-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 CO₂ equivalents) while increasing production.²²
*Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated | Target Type: Intensity*



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET – VALIDATED PATHWAYS:





Bayer CropScience



- Reduce absolute scope 1 and 2 greenhouse gas emissions 42% by 2029 from a 2019 base year.**²³

*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% 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*
- Reduce greenhouse gas emissions along the up- and downstream value chain through cooperation with suppliers and customers.²⁷

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



Reduce both energy consumption and greenhouse gas emissions per ton of production by 10% by 2026, compared to a 2016 baseline.²⁸

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



- 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.**²⁹

*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.**³⁰

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



- Identify and undertake initiatives to reduce the overall carbon footprint of corn refining products and processes.³¹

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



- 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 2020.³²

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



Dairy Farmers of America



- 30% reduction in absolute emissions across business (scope 1, 2 and 3) by 2030 from a 2018 baseline.**³³

*Commitment Scope: Individual Operations, Energy, On-Farm
Commitment Type: Specific & Dated | Target Type: Absolute
Validated Pathway: Well Below 2°C*
- Achieve a net zero or net negative carbon footprint for our Cooperative by 2050.³⁴

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



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET – VALIDATED PATHWAYS:





JOHN DEERE



- Reduce absolute greenhouse gas emissions by 15% by 2022, from a 2017 baseline.³⁵

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

- Reduce greenhouse emissions by 15% through 50% renewable electricity supply and excellence in energy efficiency.³⁶

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

- Reduce environmental impact, including CO₂e emissions, on 90% of new products.³⁷

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



- Secure 20 million acres on the Land O'Lakes TruTerra Insights Engine to continuously improve fertilizer optimization, soil health and water management by 2025 and reduce 10M metric tons of greenhouse gas emissions by 2025.³⁸

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



Feeding the Future™



- Reduce our internal carbon footprint and do our part to meet global targets to benefit our industry and the planet.³⁹
- Continue the development of Nutrien's climate strategy across our value chain (Scope 1, 2, and 3).⁴⁰

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



- Reduce Sulfur Dioxide (SO₂) emissions 50% from 2014 baseline by 2030.⁴¹

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

- Achieve carbon neutrality by 2040.⁴²

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

- By 2028, meet 100% of our electricity needs through wind, solar and cogeneration production.⁴³

Commitment Scope: Energy | Commitment Type: Specific & Dated



- Partner with growers to help them maximize sustainability efforts in their farming operations.⁴⁴

Commitment Scope: On-Farm | Commitment Type: Aspirational



- **Reduce scopes 1, 2 and 3 GHG emissions 68% per value added by 2030 from a 2016 base year.**⁴⁵

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.⁴⁶

- 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



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET – VALIDATED PATHWAYS:



TATE & LYLE



- **By 2030, deliver a 30% absolute reduction in Scope 1 and 2 CO₂e emissions, with an ambition to reach a 20% reduction by 2025.**⁴⁷
- **By 2030, deliver a 15% absolute reduction in Scope 3 CO₂e emissions.**⁴⁸

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.**⁴⁹

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



- **Reduce greenhouse gas emissions by 20% per tonne of product by 2025.**⁵⁰

*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.**⁵¹

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



Where science serves nature

- **Increase energy efficiency (through the use of cogeneration) and reduce emissions through reorganizable services.**⁵²

*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.**⁵³
- **Target USD 5 billion for the entire portfolio of impact investments and establish a measurement framework to track the impact of these investments, with the goal of avoiding five million tons of CO₂ equivalent emissions annually.**⁵⁴
- **Utilize 100% renewable power in all global operations by the end of 2022.**⁵⁵
- **Engage with both clients and investee companies with more than 30% exposure to thermal coal, oil sands and oil shales in a dialogue over a two year period with the aim to drive a deeper conversation regarding their credible mid- to long-term transition plans.**⁵⁶

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



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET — VALIDATED PATHWAYS:





SECTION 3

BRANDS & RETAIL SECTOR CLIMATE COMMITMENTS

Field to Market’s Brands & Retail Sector is comprised of 21 food, beverage, apparel, restaurant and retail companies.

Ninety percent of the sector has made public commitments to climate action in their own operations, with 62 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. Fifty-seven percent of the sector has established science-based targets to reduce greenhouse gas emissions to limit global warming at or below 2° Celsius. In addition, four food and beverage brands have committed to establishing additional science-based targets.

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.



90%

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.⁵⁷

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



Corbion



- Reduce CO₂ emissions related to energy, key raw materials, and transport by 33% per ton of product by 2030 from a 2016 base year.**⁵⁸

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 2030.⁵⁹

Commitment Scope: Energy | Commitment Type: Specific & Dated

- Partner with key raw material suppliers to jointly reduce CO₂ emissions.⁶⁰

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



GENERAL MILLS



- Reduce absolute GHG emissions by 28 percent across our full value chain (scopes 1, 2 and 3), from farm to fork to landfill by 2025, using a 2010 base-year.**⁶¹

Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 2°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.**⁶²

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 2030.⁶³

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



Ingredion

- Achieve a 25% reduction in absolute GHG emissions by the end of 2030;⁶⁴
- Source 50% of our purchased electricity from renewable sources by the end of 2030.⁶⁵

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



THE J. M. SMUCKER COMPANY

- Reduce greenhouse gas emissions intensity by 10% by 2020.⁶⁶

- Establish a science-based target for emissions reduction by 2022.**⁶⁷

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



- Short-Term: Reduce emissions intensity (tonne of CO₂e per tonne of food produced) by 15% by 2020 from a 2015 base-year (scopes 1 & 2).**⁶⁸

*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).**⁶⁹

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).**⁷⁰

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



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET – VALIDATED PATHWAYS:





- **Reduce greenhouse gas emissions related to McDonald's restaurants and offices by 36% by 2030 from a 2015 base year.**⁷¹

*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.**⁷²

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



- **Reduce absolute end-to-end greenhouse gas emissions by 10% by 2025, compared to 2018.**⁷³

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 2020.⁷⁴

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



- **Achieve zero net greenhouse gas emissions by 2050 and limit global temperature rise to 1.5°C.**⁷⁵

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

- **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;**⁷⁶

- **Nestlé will also work to reduce Scope 3 GHG emissions by 8% between 2014 and 2020;**⁷⁷

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

- By 2020, as a member of RE100, aim to procure 100% of our electricity from renewable sources with the shortest practical timescale.

Commitment Scope: Energy | Commitment Type: Specific & Dated

- By 2020, reduce GHG emissions per tonne of product by 10% in our distribution operations versus 2014.⁷⁸
- By 2020, reduce GHG emissions per tonne of product by 10% in the 100 major warehouses we use versus 2014 (ACHIEVED).⁷⁹

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



Reduce GHG emissions by 15% per square foot by 2022 compared to 2016 baseline.⁸⁰

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

To help reduce the impacts of the ingredients we buy, we are pursuing menu innovations aligned with our aspiration of making 50% of all entrees plant-based.⁸¹

Commitment Scope: On-Farm | Commitment Type: Aspirational



- **Reduce absolute greenhouse gas emissions across our value chain (scopes 1, 2, and 3) by at least 20% by 2030 from a 2015 base year.**⁸²

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

- **Set science-based emissions-reduction targets, across our entire value chain, aimed at limiting global warming to 1.5°C above pre-industrial levels, while also developing a long-term strategy for achieving net-zero emissions by 2050.**⁸³

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



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET — VALIDATED PATHWAYS:

1.5°

<2.0°

2.0°



<2.0°

- Our Ambition 2030 – manufacturing sites will be carbon neutral for the decade.⁸⁴
Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated
- **Purchase 100% renewable electricity and cut GHG emissions in half at P&G sites by 2030 from a 2010 baseline.**⁸⁵
Commitment Scope: Individual Operations, Energy
Commitment Type: Specific & Dated | Target Type: Absolute
| Validated Pathway: Well Below 2.0°C



2.0°



- **Reduce absolute Scope 1, 2 and 3 (from retail Purchased Goods & Services) greenhouse gas emissions by 30 percent below 2017 levels by 2030.**⁸⁶
Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 2.0°C
- **Commit to 80 percent of suppliers will set science-based reduction targets on their Scope 1 and 2 emissions by 2023.**⁸⁷
Commitment Scope: Supply Chain | Commitment Type: Specific & Dated | Validated Pathway: 2.0°C
- Use our influence in the market and the products we sell to help drive down emissions.⁸⁸
Commitment Scope: Supply Chain | Commitment Type: Aspirational



2.0°



- Reduce the carbon footprint of the “drink in your hand” by 25% by 2020 against a 2010 baseline.⁸⁹
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.**⁹⁰
Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Target Type: Absolute | Validated Pathway: 2.0°C



Unilever

1.5°



- **Achieve net zero emissions from all our products by 2039– from the sourcing of the materials we use, up to the point of sale of our products in the store.**⁹¹
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.⁹²
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).**⁹³
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.**⁹⁴
Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Specific & Dated | Validated Pathway: 1.5°C



- Implement sustainable agriculture practices that not only protect the land, but also provide our members enduring business benefits.⁹⁵
Commitment Scope: Individual Operations, Energy, On-Farm | Commitment Type: Aspirational



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET – VALIDATED PATHWAYS:

1.5°

<2.0°

2.0°



- 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.⁹⁶

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.⁹⁷

Commitment Scope: Scope 3 - 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 2020.⁹⁸

Commitment Scope: Scope 3 - On-Farm | Commitment Type: Specific & Dated



- **Achieve an 18% emissions reduction in our own operations by 2025 from 2015 levels.**

*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 (CO₂e) emissions from Scope 3 by one gigaton from global value chains.**

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

- Target zero emissions across the company's global operations by 2040

*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.

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



- By 2020, we aim to leverage collaborative training and improvement programs for our cotton farmers to enhance the sustainability of our fiber supply and the U.S. cotton industry at large.⁹⁹

Commitment Scope: On-Farm | Commitment Type: Aspirational

- Achieve 100% renewable energy powering all owned and operated facilities by 2025.¹⁰⁰

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



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET — VALIDATED PATHWAYS:



SECTION 4

CIVIL SOCIETY SECTOR

CLIMATE COMMITMENTS

Field to Market's Civil Society Sector is comprised of 12 organizations united through their commitment to conservation and serving in the public interest. As the Shared Vision for Climate Action demonstrates on page five, 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. Seventy-five percent of the sector has 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.



75%

**HAVE PUBLIC
COMMITMENTS**
to support farmers
and the supply chain
on climate action



- 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 and training to research and on-the-ground demonstration projects, we are working to scale up the adoption of climate-smart agriculture practices to ensure a prosperous and resilient future for farmers and the land that sustains us.¹⁰¹

Commitment Scope: On-Farm | Commitment Type: Aspirational



- Advance practical systems that improve soil health and water quality, reduce greenhouse gas emissions, 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 their impacts on climate change.¹⁰²

Commitment Scope: On-Farm | Commitment Type: Aspirational



- 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.¹⁰³

Commitment Scope: On-Farm | Commitment Type: Aspirational



- 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 2022.¹⁰⁴

Commitment Scope: On-Farm | Commitment Type: Aspirational



- 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. Advocate for innovative loans, crop insurance programs, tax incentives and other financial incentives that can help make these practices the norm.
- 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.¹⁰⁵
- Commitment Scope: On-Farm | Commitment Type: Aspirational*



- Deliver farmer-led innovative solutions to accelerate improvements in the environment, particularly for water quality, soil health, habitat, and climate protection.¹⁰⁶
- Commitment Scope: On-Farm | Commitment Type: Aspirational*



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET – VALIDATED PATHWAYS:





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.
- 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.
- 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.¹⁰⁷

Commitment Scope: On-Farm | Commitment Type: Aspirational



Protecting nature. Preserving life.™



- Achieve widespread adoption of adaptive soil health systems on more than 50 percent of U.S. cropland by 2025.¹⁰⁸

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



- Create a climate-resilient and zero-carbon world, powered by renewable energy.¹⁰⁹
- Transform businesses into leaders of the low-carbon economy.¹¹⁰
- Engage companies, platforms, sectors and governments to reduce key impacts of food production.¹¹¹

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



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET – VALIDATED PATHWAYS:



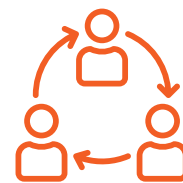


SECTION 5

AFFILIATE SECTOR CLIMATE COMMITMENTS

Representing universities, government, and professional services, Field to Market’s Affiliate Sector is comprised of 39 organizations and institutions. Twenty-eight 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 13 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.



72%
**HAVE SET
PUBLIC CLIMATE
COMMITMENTS**



- Building on insights from the behavioral sciences, 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.¹¹²

Commitment Scope: On-Farm | Commitment Type: Aspirational



- Support local and regional planning efforts that build greater resilience to weather extremes, protect water resources, enhance biodiversity and promote climate-smart agriculture.¹¹³

Commitment Scope: On-Farm | Commitment Type: Aspirational



- Reduce CSU's net emissions to achieve climate neutrality by 2050;
 - 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.

Commitment Scope: On-Farm | Commitment Type: Aspirational



- By 2020, reduce by 35 percent, from 2006 levels, greenhouse gas emissions in two critical areas: stationary combustion of fuel for our buildings and purchased electricity.¹¹⁴

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



- Achieve a carbon neutral campus by 2035 for the Ithaca campus.¹¹⁵

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

- Innovate technology, financial instruments, and policy to reduce greenhouse gas concentrations.¹¹⁶

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

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.
- Establish a better system to distribute energy across campus, improving efficiency by 20 percent.¹¹⁷

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



- Empower farmers to catalyze economic, environmental and social improvements by explaining the why, how and what next of adopting on-farm conservation and sustainability practices through America's Conservation Ag Movement, a public-private partnership.¹¹⁸
- *Commitment Scope: On-Farm | Commitment Type: Aspirational*



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET — VALIDATED PATHWAYS:

1.5°

<2.0°

2.0°

KANSAS STATE UNIVERSITY

- Reduce carbon intensity and total carbon emissions from university activities by 80% by 2050 from a 2005 benchmark.¹¹⁹

*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 2020.¹²⁰

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



- 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.¹²¹

Commitment Scope: On-Farm | Commitment Type: Aspirational

- Reduce greenhouse gas emissions by 5 million tons through the conservation practices adopted to earn MAWQCP certification.¹²²

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



- Reduce campus greenhouse gas emissions by at least 32% by 2030 (using 2014 as a baseline) and strive for carbon neutrality.¹²³

*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.¹²⁴

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.¹²⁵

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.¹²⁶

Commitment Scope: On-Farm | Commitment Type: Aspirational

NC STATE UNIVERSITY

- Reduce total greenhouse gas emissions by 25 percent from the 2008 baseline by 2022.¹²⁷

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



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET — VALIDATED PATHWAYS:



OpenTEAM

- Build an open technology ecosystem to support farmers’ adoption of soil health management systems in an effort to advance agriculture’s ability to become a solution to climate change.¹²⁸

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 2050.¹²⁹

*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.¹³⁰

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



- 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 2040.¹³¹

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

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.¹³²

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



- Achieve a 50% reduction in greenhouse gas emissions per weighted campus user by 2030.
- Achieve net-zero emissions by 2050.¹³³

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



- Keep global warming below 1.5 degrees by reducing greenhouse gas emissions by a target of 39% by 2025.¹³⁴

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

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 CO₂ 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 CO₂ emissions and net zero energy readiness by 2050.¹³⁵

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



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET – VALIDATED PATHWAYS:





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 2040.¹³⁶

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



The University of Georgia

- Reduce carbon emissions by 20 percent by 2020 (ACHIEVED).
- Reduce University consumption of energy by 25 percent 2020.
- Increase purchase of energy from renewable sources by 10 percent by 2020.
- Increase generation of energy from renewable sources by 10 percent by 2020.¹³⁷

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

UF Extension

- 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).¹³⁸

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.¹³⁹

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



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 Agenda.¹⁴⁰

Commitment Scope: On-Farm | *Commitment Type: Aspirational*

- Increase agricultural production 40 percent while cutting agriculture's environmental footprint in half by 2050.
- Enhance carbon sequestration through soil health and forestry, leverage the agricultural sector's renewable energy benefits for the economy, and capitalize on innovative technologies and practices to achieve a net reduction of the agriculture sector's current carbon footprint by 2050.

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



TARGETS ON-FARM EMISSIONS

SCIENCE-BASED TARGET — VALIDATED PATHWAYS:



COMMITMENT SOURCES

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