

Corteva Agriscience 2030 Sustainability Goals

Our Operations

Every new Corteva Agriscience product will meet our sustainability criteria by 2025

- Every new product will be assessed at stage gates from its concept inception and throughout its development to ensure that it meets baseline requirements, advances in at least one sustainable innovation criterion, and maintains the level of performance for all other sustainability criteria across the life cycle (product and packaging) compared to a current Corteva product it would replace (or equivalent).
- Improvement must be measurable within a year (unless otherwise indicated). Evaluations include the entire value chain from raw material to end-of-life (for the product and packaging), and all criteria, to ensure no shifting of burdens from one part of the value chain to another.

Sustainable innovation criteria

Meets baseline requirements, delivers at least one notable sustainability advantage, and maintains the level of performance for all other sustainability criteria across the life cycle (product and packaging) compared to a current Corteva product it would replace (or equivalent).



Corteva's sustainable innovation criteria= 1-12 in black bold text



1. Improve resilience of agricultural production
2. Increase access to safe, nutritious, and sufficient food
3. Support genetic diversity of seeds and cultivated plants



4. Improve water quality
5. Increase water use efficiency



6. Reduce waste and improve product application efficiency
7. Reduce food waste
8. Use safer materials in manufacturing and finished products
9. Use sustainably sourced renewable inputs



10. Reduce greenhouse gas (GHG) emissions



11. Improve soil quality and restore degraded land
12. Protect biodiversity and ecosystems

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Our Operations

Every new Corteva Agriscience product will meet our sustainability criteria by 2025 (continued)

Criterion	Threshold – Beyond Current Market Option
1. Improve resilience of agricultural production	Improvement of at least 1.5% in genetic gain or yield under standard conditions
2. Increase access to safe, nutritious, and sufficient food	Provides a nutritionally significant improvement in a typical diet (i.e., 10% more)
3. Support genetic diversity of seeds and cultivated plants	Contributes to new meaningful germplasm diversity for food crops and wild food crop relatives used in cultivation, to provide more reliable productivity or reduced vulnerability to pest and environmental risks
4. Improve water quality	Improves water quality with at least 10% improvement in nitrogen or phosphorus use efficiency or removal of chemical leaching
5. Increase water use efficiency	At least 10% improvement in water use efficiency
6. Reduce waste and improve product application efficiency	At least 25% improvement in waste reduction, product application efficiency, or packaging material use (or similar packaging improvement; connected to Green Chemistry Principles)
7. Reduce food waste	At least 5% less food waste at production (e.g., harvest loss) or post-harvest stages under standard conditions for food crops
8. Use safer materials in manufacturing and finished products	Demonstrated to be substantially safer for human health and the environment - through hazard classification or relative risk ranking (connected to Green Chemistry Principles)
9. Use sustainably sourced renewable inputs	Use of bio-based by-products or third-party verified sustainably sourced renewable materials for product manufacture (connected to Green Chemistry Principles)
10. Reduce greenhouse gas (GHG) emissions	At least a 10% reduction in GHG emissions (connected to Green Chemistry Principles)
11. Improve soil quality and restore degraded land	Support a statistically significant improvement in the soil health index score in more than one key indicator (e.g., Comprehensive Assessment of Soil Health (CASH) considering combined scores for aggregate stability and active carbon at a minimum)
12. Protect biodiversity and ecosystems	Improved health of pollinators, forests, wetlands, and other natural ecosystems without negative impacts to the system

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Our Operations

Establish our climate strategy for scope 1, 2, and 3 emissions, including appropriate reduction targets by June 1, 2021

Background

- We became an independent public company on June 1, 2019, through the separation of the agriculture business from DowDuPont, and are currently generating a full-year 2020 baseline to inform our forthcoming goal.
- Due to the seasonal nature of our business, an annual baseline of greenhouse gas (GHG) emissions must be developed before making a public commitment.
- The DowDuPont environmental metrics, goals, and data management systems were not designed to capture or extract information specifically related to the agriculture business as it currently exists. As such, we do not have relevant historical data.
- Starting on January 1, 2020, sites across the globe started reporting greenhouse gas emissions into a new global environmental tracking system. This system includes all information relevant to this strategy, including energy-related activities.
- Corteva anticipates making summaries of this information available to the public starting around mid-year 2021.
- We will establish a climate strategy in 2021.

Approach

- The Greenhouse Gas Protocol (“GHG Protocol”) is our overarching framework for Scopes 1, 2, and 3 data and the development of our climate strategy. Emission Factors and CO2e calculation methodologies have generally been derived from US EPA Mandatory Greenhouse Gas Reporting Rule and the US EPA Emissions & Generation Resource Integrated Database (eGRID).
- We currently plan to supply data for the following countries:
 - Argentina
 - Australia
 - Austria
 - Brazil
 - Canada
 - Chile
 - China
 - Colombia
 - Egypt
 - Ethiopia
 - France
 - Germany
 - Hungary
 - India
 - Indonesia
 - Italy
 - Japan
 - Kenya
 - Mexico
 - New Zealand
 - Philippines
 - Romania
 - Russian Federation
 - Serbia
 - Singapore
 - South Africa
 - Spain
 - Taiwan, Greater China
 - Thailand
 - Turkey
 - Ukraine
 - United Kingdom of Great Britain and Northern Ireland
 - United States of America
 - Zambia

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All packaging will be reusable or recyclable by 2030

Background

- We recognize there is a meaningful difference between packaging that is reusable or recyclable by design, and packaging that is reusable or recyclable in practice.
- We plan to proactively influence our industry in container management programs, and partner with other organizations to educate end users on opportunities to recycle products.

Approach

- We plan to establish a baseline/definition for reusable or recyclable based on industry standards in all regions for all packaging components and/or configurations of finished product, understanding regional situation and regulatory considerations.
- This target will assess primary, secondary and tertiary packaging.

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Operate every Corteva Agriscience site more sustainably through waste reduction, water conservation, and enhanced biodiversity

This target is supported by eight indicators:

Target	Indicator
100% of seed operations	100% of seeds operations achieve Zero Landfill Status
20% PMI reduction	Achieve an average 20% Process Mass Intensity (PMI) reduction for all new molecule launches within 4 years of launch
10% usage reduction	Reduce water usage in high stress and stressed areas by 10%
100% of centers and sites	Implement customized biodiversity action plans at 100% of our agronomic research centers and Corteva corporate sites
Our business operations	Integrate industry-leading transparency processes and practices into our business operations
100% of priority suppliers	100% of priority suppliers meet procurement sustainability targets
25% of global procurement spend	25% of global procurement spend will be with diverse and small businesses
100% of supplier community	By 2025, 100% of our supplier community will attest to or affirm agreement with Corteva Supplier Code of Conduct guidelines and requirements

Approach

- PMI is a calculation that measures the amount of materials used to create a given amount of chemical products. [PMI = total quantity of raw materials (kg)/total quantity of active produced]. It is useful for identifying opportunities for improvement in process efficiency. Recent research has applied PMI to biologics.
- We will use the PMI Calculator from ACS Green Chemistry Institute to track progress against this target. <https://www.acs.org/content/acs/en/greenchemistry/research-innovation/tools-for-green-chemistry.html>
- We will use the WRI Aqueduct tool to identify sites in high water stress and water stressed areas.
- Customized biodiversity action plans will have a global approach that leads to local implementation addressing local biodiversity concerns. The scope is broad enough to recognize varied approaches to biodiversity that fit unique land uses, without sacrificing our goal of food productivity and efficiency (co-existence). Customized action plans will include a menu of locally relevant actions that land managers can take.
- We will pursue opportunities to engage local communities in implementation of customized biodiversity action plans.
- We define priority suppliers to include packaging and chemical suppliers.
- We have joined Together for Sustainability to support this target.
- Our Supplier Code of Conduct can be found at https://www.supplier-center.corteva.com/content/dam/dpagco/supplier-center/files/code_of_conduct.pdf