

Corteva Agriscience 2030 Sustainability Goals In Our Operations

Every newly developed Corteva Agriscience innovation from our pipeline will meet our sustainability criteria by 2025

Achieve a 65% intensity reduction in scope 1 and 2 emissions and 20% intensity reduction in scope 3 emissions by 2030

All packaging will be reusable or recyclable by 2030

Operate more sustainably through waste reduction, water conservation, enhanced biodiversity, increased transparency, and sustainable sourcing

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Every newly developed Corteva Agriscience innovation from our pipeline will meet our sustainability criteria by 2025

- Every new product that we develop will be assessed starting at early stage gates – from concept inception and throughout its development – to ensure that it meets baseline requirements, advances in at least one sustainable innovation criterion.
- We aim for our portfolio to maintain 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 where practical. Evaluations include considerations from across the 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, so that our portfolio 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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Every newly developed Corteva Agriscience innovation from our pipeline 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

Corteva Agriscience 2030 Sustainability Goals In Our Operations

Achieve a 65% intensity reduction in scopes 1 and 2 emissions and 20% intensity reduction in scope 3 emissions by 2030

Background

- 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.
- Based on this information, Corteva met its commitment to establish a 2020 baseline and climate strategy for scopes 1, 2, and 3 emissions, including appropriate reduction targets, in 2021.
- Intensity reductions are per value added, which is a measure based on net sales, and are measured relative to 2020 baselines.

Strategy & Targets

- We expect to achieve this goal through a variety of initiatives in our operations, including taking steps to reduce energy usage, focus efforts in R&D, increase production efficiencies, and transition to renewable energy sources.
- We have formalized our commitment with the Science Based Targets Initiative (SBTi). Corteva's GHG emissions reduction baselines and targets will be vetted by the SBTi. Based on the results of this assessment, we will adjust our targets, as appropriate, to reflect validation by SBTi that they are science-based, and consistent with a 1.5°C scenario.

Methodology

- The GHG Protocol is our overarching framework for scopes 1, 2, and 3 data. 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).
- The methodologies identified to collect activity data and calculate emissions beginning in 2020 include the Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition) (GHG Protocol), US EPA Emissions & Generation Resource Integrated Database (eGRID), and US EPA Mandatory Greenhouse Gas Reporting Rule.
 - For scope 2, we use a blended location-based and market-based methodology approach.
 - For scope 3, the methodologies identified to collect activity data and calculate emissions beginning in 2020 include the Greenhouse Gas Protocol: Value Chain (Scope 3) Accounting and Reporting Standard. Emission Factors and CO₂e calculation methodologies have generally been derived from input-output datasets based on the World Input-Output Database (WIOD) and the Open IO Database.
- We track and report data for the following countries:

• Argentina	• France	• Philippines	• Ukraine
• Australia	• Germany	• Romania	• United Kingdom of Great Britain and Northern Ireland
• Austria	• Hungary	• Russian Federation	• Ireland
• Brazil	• India	• Serbia	• United States of America
• Canada	• Indonesia	• Singapore	• Zambia
• Chile	• Italy	• South Africa	• Zimbabwe
• China	• Japan	• Spain	
• Colombia	• Kenya	• Taiwan, Greater China	
• Egypt	• Mexico	• Thailand	
• Ethiopia	• New Zealand	• Turkey	

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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.

Reusable

A packaging item will be considered as reusable as long as:

- It is designed to be reused
- And there is a business model in place to re-use it

Recyclable

A packaging item is recyclable if one of the following criteria is matched:

- A recycling stream exists and is used for the material of consideration of the item within our Crop Protection industry.
- The item is made of a material for which a recycling stream outside of our Crop Protection industry exists.

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Operate more sustainably through waste reduction, water conservation, enhanced biodiversity, increased transparency, and sustainable sourcing

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
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
25% of global procurement spend	25% of global procurement spend will be with diverse and small businesses

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
- Read more about our commitment to [inclusion, diversity, and equity](#).

Cautionary Statement About Forward-Looking Statements

This communication contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended, and Section 27A of the Securities Act of 1933, as amended, which are intended to be covered by the safe harbor provisions for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995, and may be identified by their use of words like “targets,” “plans,” “expects,” “will,” “anticipates,” “believes,” “intends,” “projects,” “estimates,” or other words of similar meaning. All statements that address expectations or projections about the future, including statements about Corteva’s sustainability goals; emissions targets; inclusion, diversity representation goals; product development and innovations; regulatory approvals; and environmental matters, are forward-looking statements, which are based on certain assumptions and expectations of future events which may not be accurate or realized.

Forward-looking statements also involve risks and uncertainties, many of which are beyond Corteva’s control. A detailed discussion of some of the significant risks and uncertainties which may cause results and events to differ materially from such forward-looking statements or other estimates is included in the “Risk Factors” section of Corteva’s annual and quarterly reports filed with the SEC. While the list of factors in these SEC filings is considered representative, no such list should be considered to be a complete statement of all potential risks and uncertainties. Unlisted factors may present significant additional obstacles to the realization of forward-looking statements. Consequences of material differences in results as compared with those anticipated in the forward-looking statements could include, among other things, business disruption, operational problems, financial loss, regulatory changes, restructurings, merger and acquisition activity, customer preferences, and other relationships with third parties and similar risks, any of which could have a material adverse effect on Corteva’s business, results of operations and financial condition. Some of the important factors that could cause Corteva’s actual results to differ materially from those projected in any such forward-looking statements include: (i) failure to obtain or maintain the necessary regulatory approvals for some Corteva’s products; (ii) failure to successfully develop and commercialize Corteva’s pipeline; (iii) effect of the degree of public understanding and acceptance or perceived public acceptance of Corteva’s biotechnology and other agricultural products; (iv) effect of changes in agricultural and related policies of governments and international organizations; (v) effect of competition and consolidation in Corteva’s industry; (vi) effect of competition from manufacturers of generic products; (vii) costs of complying with evolving regulatory requirements and the effect of actual or alleged violations of environmental laws or permit requirements; (viii) effect of climate change and unpredictable seasonal and weather factors; (ix) risks related to oil and commodity markets; (x) competitor’s establishment of an intermediary platform for distribution of Corteva’s products; (xi) impact of Corteva’s dependence on third parties with respect to certain of its raw materials or licenses and commercialization; (xii) effect of industrial espionage and other disruptions to Corteva’s supply chain, information technology or network systems; (xiii) effect of volatility in Corteva’s input costs; (xiv) failure to realize the anticipated benefits of the internal reorganizations taken by DowDuPont in connection with the spin-off of Corteva and other cost savings initiatives; (xv) failure to raise capital through the capital markets or short-term borrowings on terms acceptable to Corteva; (xvi) failure of Corteva’s customers to pay their debts to Corteva, including customer financing programs; (xvii) increases in pension and other post-employment benefit plan funding obligations; (xviii) risks related to the indemnification obligations of legacy EID liabilities in connection with the separation of Corteva; (xix) effect of compliance with laws and requirements and adverse judgments on litigation; (xx) risks related to Corteva’s global operations; (xxi) failure to effectively manage acquisitions, divestitures, alliances and other portfolio actions; failure to enforce; (xxii) risks related to COVID-19; (xxiii) risks related to activist stockholders; (xxiv) Corteva’s intellectual property rights or defend against intellectual property claims asserted by others; (xxv) effect of counterfeit products; (xxvi) Corteva’s dependence on intellectual property cross-license agreements; and (xxvii) other risks related to the Separation from DowDuPont. Corteva disclaims and does not undertake any obligation to update or revise any forward-looking statement, except as required by applicable law. A detailed discussion of some of the significant risks and uncertainties which may cause results and events to differ materially from such forward-looking statements or other estimates is included in the “Risk Factors” section of Corteva’s annual and quarterly reports filed with the SEC.