Sustainable Agriculture

Source Metadata

Field	Value
source	cpi
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source_id	CPI-AF-001
sector	AFOLU
subsector	Sustainable Agriculture
mitigation	Y
adaptation	Y
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CPI Definition & Scope

Sustainable Agriculture in CPI's GLCF framework tracks climate finance directed at farming practices and systems that reduce agricultural greenhouse gas emissions while building resilience to climate change. CPI's 2025 data shows AFOLU finance rose 286% since 2018, though from a low base. CPI captures investment in climate-smart agriculture, precision farming, soil carbon management, sustainable intensification, crop diversification, drought-resistant varieties, and agricultural supply chain transformation. CPI's Landscape of Climate Finance for Agrifood Systems specifically tracks finance flows to these activities.

Subsectors & Examples

- **Climate-Smart Agriculture** — integrated practices that increase productivity while reducing emissions
- **Soil Carbon Management** — no-till farming, cover cropping, biochar application, composting
- **Precision Agriculture** — variable rate application, GPS-guided equipment, sensor-based irrigation
- **Climate-Resilient Crops** — drought-tolerant varieties, heat-resistant cultivars, diversified cropping
- **Sustainable Inputs** — biofertilizers, integrated pest management, efficient irrigation

Mitigation & Adaptation Classification

Sustainable agriculture is classified as **dual-benefit** in CPI's framework. Mitigation comes from reduced nitrous oxide emissions (fertilizer management), lower methane from paddy rice, increased soil carbon sequestration, and reduced energy use. Adaptation benefits are equally significant: climate-smart practices improve farmers' resilience to drought, flooding, temperature extremes, and shifting growing seasons.

LATAM Relevance

Agriculture is a central economic sector across Latin America and a major source of both emissions and climate vulnerability. Colombia's coffee sector is adapting to changing temperature and precipitation patterns that threaten the coffee belt. Peru's diverse agro-ecological zones require region-specific climate-smart practices for crops ranging from highland quinoa to coastal asparagus. Costa Rica's NAMA Cafe program is an internationally recognized model for low-carbon coffee production. CPI specifically tracks blended finance for Latin American agrifood systems.

Cleantech Taxonomy Crosswalk

Maps to Cleantech Taxonomy sector **AF** (AFOLU) for sustainable agriculture. Cross-references with **WW** (Water) for agricultural water management, **ES** (Energy Systems) for on-farm renewable energy, and **IC** (ICT) for precision agriculture digital solutions.

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