

REEL Programme

Emission Targets Tracking, Management and Reporting



**COTTON
CONNECT**

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At CottonConnect, we are committed to reducing the greenhouse gas (GHG) emissions of our REEL Programmes by 50% by 2030, in line with global climate goals and the urgent need for agricultural supply chains to transition toward low-carbon futures.

Our Approach

To achieve this ambitious target, we follow a structured, science-based approach to emission monitoring and management, ensuring that data, capacity, and accountability are embedded across our programmes. The key components of our approach include:

1. Collaboration with External Experts

- We work with technical partners and external experts to [build capacity](#) in GHG accounting, [emission reduction strategies](#), and regenerative practices.
- As a member of the Cool Farm Alliance, we use the Cool Farm Tool to help quantify emissions and assess on-farm improvements.

2. Periodic Life Cycle Assessments (LCAs)

- We seek technical assistance from with Sphera, a global leader in sustainability solutions, to conduct our in-house LCAs
- These assessments identify emission hotspots, providing benchmarks and guiding interventions.

3. GHG Inventory Data Management

- We maintain robust systems to collect and manage inventory data on agricultural inputs, energy use, land practices, and emission factors.
- Data is aligned with internationally recognized protocols
- All data collected from the producers are third party verified and the reports such as LCAs are generated by following the ISO requirements of external reviews

4. Monitoring, Reporting, and Verification (MRV)

- Emission data is systematically monitored and reported as part of the CottonConnect Impact Report, which tracks programme-level emission reductions alongside other sustainability metrics.
- Findings are shared with brand partners for transparent communication of progress and challenges.

5. Target-Linked Action Plans

- Insights from LCAs and GHG monitoring are translated into action plans to advance towards our 50% reduction target.
- Key actions include:
 - Shifting from synthetic to bio-based inputs, thereby reducing nitrous oxide emissions from chemical fertilizers.
 - Promoting farmers' use of farmyard manure (FYM), compost, and other organic amendments to improve soil carbon sequestration and fertility.
 - Encouraging regenerative practices such as crop rotation, cover cropping, and reduced tillage to enhance soil health and reduce emissions.
 - Improving energy efficiency and adoption of low-carbon technologies across the supply chain such as adoption of solar energy, providing supply chain partners insights through supply chain carbon assessments etc. This was carried out through pilot level investments in Gins supporting them to migrate to solar energy so that successful case studies can be generated to motivate other producers.

6. Net Zero Villages Pilot

- We are currently piloting Net Zero Village pilots in selected villages of Gujarat, India. These pilots will demonstrate pathways to carbon-neutral farming communities by integrating regenerative agriculture, renewable energy adoption, and efficient resource management.
- Successful outcomes will pave the way for scaling up this initiative across other regions and commodities.

CottonConnect emissions monitoring framework not only helps us manage current impacts but also strengthens resilience in farming communities. By 2030, CottonConnect aims to achieve the 50% GHG reduction target while demonstrating a replicable model of climate-smart supply chains that balance productivity, livelihoods, and environmental stewardship.