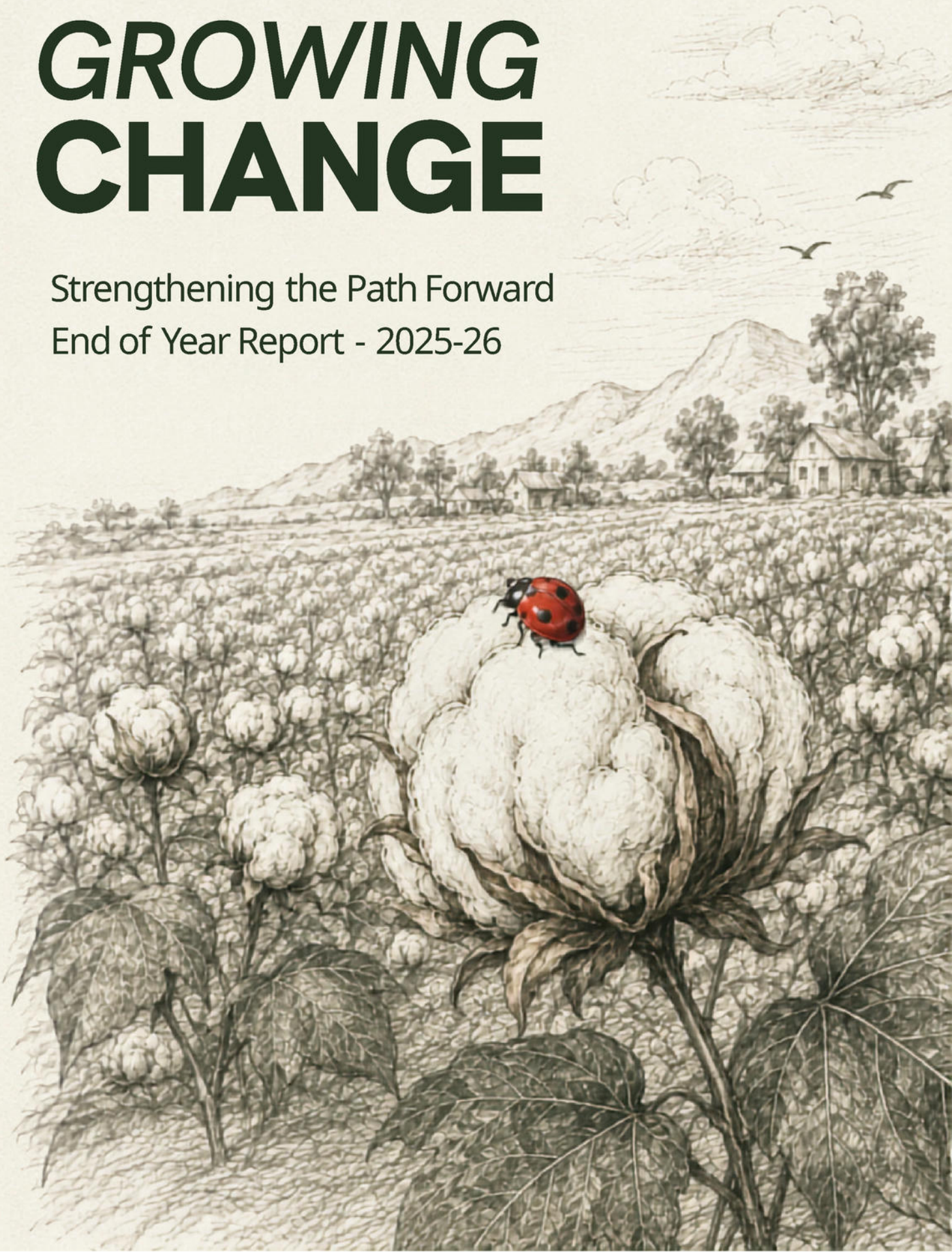




**BEETLE REGEN
SOLUTIONS**
LET'S REGENERATE TOGETHER

GROWING CHANGE

Strengthening the Path Forward
End of Year Report - 2025-26





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Foreword

" The year marked an important milestone in Beetle's journey as we expanded beyond india and initiated our first pilot interventions in Bangladesh. "



As we reflect on the past year, it is encouraging to see how Beetle has translated innovative ideas into meaningful impact on the ground. The year has been one of growth, learning and momentum as we strengthened our work across regenerative agriculture, carbon initiatives and sustainable cotton value chains.

One of the most encouraging developments has been the growing confidence among farmers in regenerative agricultural solutions. From farmer-led biochar production and High-Density Planting Systems (HDPS) to soil carbon initiatives and improved agronomic practices, we are witnessing a gradual shift towards more resilient, productive and sustainable farming systems. This progress is especially timely as the Government of India has recently approved the Mission for Cotton Productivity, with a financial outlay of ₹5,659 crore, aiming to increase lint productivity from 440 kg per hectare to 755 kg per hectare by 2031. Together, these efforts are helping improve farmer incomes, increase soil organic carbon, optimize resource use and strengthen climate resilience.

The year also marked an important milestone in Beetle's journey as we expanded beyond India and initiated our first pilot interventions in Bangladesh. This step reflects the growing relevance of our work and the potential of farmer-centric, climate-smart agricultural solutions to create impact across geographies. Beyond field implementation, we continued to strengthen our engagement with carbon markets, advance soil carbon and biochar initiatives, pilot digital agriculture technologies and build partnerships across the sustainability ecosystem. These efforts are laying the foundation for connecting regenerative agriculture with industrial decarbonization and enabling lower-emission agricultural and textile value chains.

As we look ahead, our focus remains on scaling regenerative agriculture, strengthening carbon initiatives, improving farmer livelihoods, and creating measurable climate outcomes. The progress made over the last year reinforces our belief that meaningful change is possible when farmers, partners, industries and innovators work together towards a shared vision of sustainable growth.

I extend my sincere gratitude to our farmers, partners, supporters, and team members for their trust and commitment. Together, we are building resilient farming systems that benefit both people and the planet.

Hemant Rajput

Co-founder and Chief Operating Officer
Beetle Regen Solutions



From the CEO's Desk

Every once in a while, an industry reaches a point where doing more of the same is no longer an option. Industries worldwide have reached that point owing to the climate disaster we have landed ourselves into.

For decades, the conversation around farming, manufacturing and supply chains has largely been about producing more - more cotton, more grain, more output and more products. Yet somewhere along the way, we forgot to ask an equally important question: what happens to the soil, the farmers and the climate while we chase those numbers?

At Beetle, we believe the future of agriculture is not a choice between productivity and sustainability. It is productivity because of sustainability.

Over the last year, we witnessed something remarkable. Farmers across our landscapes didn't adopt regenerative practices because they were forced to - by our teams, standards or compliances. They adopted those because the pilots and demos in the year before, showed good results. When a farmer sees healthier soil, lower input costs, improved resilience and better incomes, sustainability stops being a concept & becomes common sense.

That is why I am particularly excited about two developments that I believe will redefine not just agricultural systems but also supply chains footprints and overall environmental carbon dioxide levels, in the coming decade.

The first is High-Density Planting Systems (HDPS).

In an industry often obsessed with expensive breakthroughs, HDPS is a reminder that sometimes innovation is simply about doing the fundamentals better. HDPS as a technology isn't new but the gap has always in its dissemination and penetration to the remotest of the smallholder farmers.

The results we have seen till date (increased yields, improved profitability, and better resource efficiency) across more than 2000 Ha, gives us confidence that HDPS can become one of the most

important productivity tools available to smallholder cotton farmers. And hence we are scaling it to more than 20k Ha in the coming year with right HDPS seed linkages and crop management techniques.

The second is Biochar.

I have often joked with all Beetles that crop residues (cotton stalks in particular) have suffered from an image problem. For years, they were treated as waste. Today, we increasingly see them for what they truly are: one of the most underutilized climate assets sitting on farms in this region. Biochar represents a rare convergence of interests. Farmers gain healthier soils and additional income opportunities. Industries gain access to credible Carbon Dioxide Removal pathways. Governments gain a scalable solution that addresses residue burning, soil degradation, and climate commitments simultaneously. When one intervention solves problems across agriculture, climate, and industry, it deserves attention.

This year also strengthened our conviction that the future of climate action will not be built in boardrooms alone. It will be built through partnerships.

Our transition toward a sustainable and low-carbon economy will require public policy, private capital, scientific innovation, and grassroots implementation to move in the same direction. Encouragingly, we are beginning to see exactly that happen. Government institutions are creating enabling frameworks. Brands and corporates are moving beyond commitments towards implementation. We would now need the climate finance ecosystem to align itself towards such public private partnerships, which Beetle is building at a large scale now. This potential convergence at a pathbreaking scale not just in South Asia but across continents is also why Carbon Dioxide Removal (CDR) continues to occupy a central place in our vision.

The world has now largely accepted a difficult reality: emissions reductions alone will not be enough. Durable carbon removal will be essential. The question is not whether CDR will become important; the question is who will build solutions that are scientifically credible, economically viable, and socially inclusive. At Beetle, our belief is that smallholder farmers must be a critical part of that answer. A future where farmers become custodians of carbon assets, producers of climate solutions, and beneficiaries of emerging carbon markets is not a distant aspiration. It is a future we are actively building.

Today, ***our work reaches nearly 120,000 farmers across regenerative agriculture, carbon initiatives and sustainable value chains.***

Behind every hectare covered, every tonne of biochar produced, every carbon project developed, and every partnership formed is a larger ambition: to prove that climate action can create prosperity.

Looking ahead, our sights are set firmly on the next frontier - connecting regenerative agriculture with industrial decarbonization (using our Industrial Pyrolysis model). We believe the path to lower-carbon textile supply chains, climate-positive production systems, and eventually carbon-neutral cotton will emerge from the intersection of farm innovation, biochar, traceability, MRV, and carbon markets.

And for the first time in a generation, agriculture has the chance to move from being viewed as part of the climate problem to becoming one of the most powerful climate solutions available.

That is a future worth building. And we are just getting started.

Hope you enjoy reading this edition of our End of Year report!

Amol Mishra

Co-founder and Chief Executive Officer
Beetle Regen Solutions





This year marked an important phase in Beetle's evolution—from implementing regenerative agriculture projects to building integrated solutions that connect farm productivity, climate action, technology and sustainable value chains.

Executive Summary

Across our programme geographies, farmers increasingly embraced regenerative practices not only as sustainability interventions, but as practical solutions that improve productivity, profitability, and resilience. This growing confidence was reflected in stronger adoption of regenerative practices, farmer-led biochar production, and the successful demonstration of innovations such as High-Density Planting Systems (HDPS).

Beetle continued to strengthen its role within the broader sustainability ecosystem. We advanced soil carbon projects, piloted digital agriculture technologies, contributed to industry-wide capacity building under the IDH RPLC framework, and expanded collaborations with supply chain partners, carbon developers, and technology providers. Year also marked a significant milestone as Beetle initiated its first international interventions in Bangladesh, extending its regenerative agriculture approach beyond India and laying the foundation for future regional engagement.

Today, Beetle’s work directly and indirectly reaches approximately **120,000** farmers across cotton-growing landscapes. The impact of these efforts is reflected in measurable outcomes, including an average **18%** increase in yield, a **38%** improvement in farmer income, a **23%** reduction in chemical fertilizer use and avoided greenhouse gas emissions per hectare by **~17%** among participating farmers.

Key Growth Metrics:

120,000 <i>farmers across cotton-growing landscapes</i>	18% <i>increase in yield</i>	38% <i>improvement in farmer income</i>	23% <i>reduction in chemical fertilizer use</i>	17% <i>avoided greenhouse gas emissions per hectare among participating farmers</i>
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The progress captured in this report reflects the collective efforts of farmers, field teams, implementation partners, technical collaborators, and value chain stakeholders. More importantly, it demonstrates that regenerative agriculture can deliver tangible benefits while contributing to climate resilience, ecosystem restoration, and sustainable rural livelihoods. As we look ahead, Beetle remains committed to building scalable models that place farmers at the centre of agricultural transformation while creating value for both people and the planet.

Snapshot of the Year

2025 - 2026 Data



~ 1,20,000¹
Farmers Engaged



1,06,866
Hectares Land Coverage



198k
Cotton Bales Produced



20+
Supply Chain Partners

&

9
Corporate Partners

¹Our direct farmer outreach is 71,000 farmers, complemented by an indirect outreach of approximately 50,000 farmers through capacity-building partnerships. Indirect outreach refers to farmers reached through partner-led capacity-building initiatives where our role is focused on technical support, training and program facilitation.



Key learnings from the Past

The year marked a significant phase of progress for Beetle, with integrated work across regenerative agriculture, carbon initiatives, and sustainable value chains gaining increasing visibility, while also generating important insights into the adoption and scaling of these interventions across programme geographies.

- ◆ ***Tangible benefits are driving farmer adoption***

Farmer uptake has been strongest where practices demonstrate visible and immediate benefits. Interventions such as HDPS and biochar are increasingly being adopted as farmers observe improvements in crop performance, soil condition, and overall resilience.

- ◆ ***Consistency in practice adoption remains a key focus area***

While adoption has begun across geographies, variations in agronomic practices indicate the need for continued handholding. Strengthening consistency will be essential to realise full productivity and sustainability gains.

- ◆ ***Strengthened systems are enabling scale and knowledge transfer***

Over the past year, Beetle has significantly strengthened internal systems, improving programme delivery and consistency. This also positions the organisation to support capacity-building initiatives and partnerships within the regenerative agriculture and MRV domain.

- ◆ ***Carbon-linked approaches are emerging as a promising direction***

Early experiences from soil carbon and biochar-based interventions indicate strong potential to link regenerative practices with measurable climate outcomes.

KEY IMPACT HIGHLIGHTS



Result Indicator

Outcome (2025 - 2026)

Adoption of Regenerative Practices



4 to 5

regenerative practices adopted by each farmer on their farms.

Tree Plantation & Crop Diversification



29% of farmers

have adopted boundary plantation, with parallel efforts towards improved crop diversification.

Reduction in Chemical Inputs



~23% reduction

achieved in chemical fertilizers.

Water Use Efficiency



~16% reduction

compared to control group farmers. Improved water-use efficiency in cotton.

GHG Emissions



~17% avoided

emissions of greenhouse gas per hectare.

Income Metrics



~38% improved

net annual farmer income compared to that of control group farmers.

Yield Increase



~18% increased

yield compared to control group farmers.

A Cornerstone Partnership for Field Impact



At Beetle, we believe that lasting impact is built through strong partnerships, and our association with the Niranjanlal Agrawal Foundation (NAF) exemplifies this belief. Rooted in a shared commitment to improving farmer livelihoods and advancing sustainable agriculture, the partnership has grown into a trusted collaboration that bridges innovation with grassroots action.



NAF has been instrumental in bringing Beetle's vision to life across programme geographies. With its deep understanding of local communities and extensive field presence, NAF leads critical on-ground operations across the intervention states, including farmer mobilization, capacity building, demonstration plot management, field monitoring, data collection and continuous engagement with farming households. Their ability to build trust within communities has been central to driving farmer participation and adoption of improved agricultural practices.

The partnership combines Beetle's technical expertise, innovation and programme design capabilities with NAF's implementation excellence and grassroots reach. Together, we have been able to translate ideas into action, ensuring that regenerative agriculture interventions are delivered effectively and create meaningful outcomes for farming communities. The strength of this relationship lies not only in shared achievements, but also in a common vision of creating resilient farming systems, healthier ecosystems and sustainable livelihoods for smallholder farmers.

Our Projects:

This section highlights the range of initiatives undertaken by Beetle across regenerative agriculture, carbon and sustainability-focused interventions.

Women in Regenerative Cotton



Women play a critical role in cotton cultivation but often have limited access to decision-making, knowledge and financial systems. Addressing this gap is essential for building inclusive and resilient regenerative systems.



In FY 2025-26, Beetle launched the *Women in Regenerative Cotton* initiative in partnership with Vardhman Textiles for a leading global brand, embedding gender inclusion within regenagri-certified farm systems and positioning women as **recognized co-farmers**. The programme integrates regenerative agriculture with financial and digital literacy, SHG formation, community sensitisation and market linkages, enhancing women's agency, access to resources and participation in decision-making.

Key Highlights:

Indicator	Outreach
Geographic Coverage	103 villages
Total Women Engaged	620+
SHS Coverage	67
Trained on Financial Literacy	650+

By positioning women as **active co-farmers**² within regenerative agriculture systems, the initiative strengthens farm resilience, sustainability outcomes and inclusive value chains.

Building a Standardized RPLC (Regenerative Production Landscape Collaborative) Framework for IDH



Beetle's engagement with IDH under the Regenerative Production Landscape Collaborative (RPLC) focuses on strengthening the capacity of implementing partners to deliver regenerative cotton interventions across Madhya Pradesh. As a strategic technical partner, Beetle is supporting **10 partner organizations in Madhya Pradesh, - including CARD, SAMARTHAN, AKRSP, SRIJAN, Vasudha** and others through standardized manuals, Training of Trainers, ToTs, and technical guidance aligned with RPLC's Monitoring, Reporting and Verification (MRV) framework.

A key achievement during the year was the co-development of the RPLC Regenerative Capacity Framework, which institutionalizes three intervention pillars: regenerative agriculture practices, biochar systems, and Bio-Resource Centres (BRCs). Beetle led the technical design of the framework, developing context-specific protocols, implementation tools and measurable indicators for Madhya Pradesh's cotton systems.

Through capacity building, knowledge sharing, and partner alignment, the collaboration is creating a scalable blueprint for regenerative cotton transition across RPLC landscapes.

²Co-farmers are women who actively participate in and contribute to farm operations, agricultural decision-making and household livelihood activities alongside the primary farmer. The term recognizes their role as equal partners in farming rather than as secondary contributors or beneficiaries.

Life Cycle Assessment (LCA) – Texprocil



As a part of our commitment to data transparency and measurable impact, Beetle is currently conducting a Life Cycle Assessment (LCA) study for Texprocil in Jalgaon, Maharashtra. The assessment under Cradle-to-Gate, covers **1,200 farmers** capturing detailed primary data on agricultural inputs, nutrient management, irrigation practices, residue management and farm-level emissions through to the spinner gate.



The study is being carried out in accordance with ISO 14040 & ISO 14044 standards for Life Cycle Assessment, along with ISO 14067 for Carbon Footprint Qualification, ensuring methodological rigor and internationally recognised reporting practices.

By undertaking this LCA, Beetle is strengthening data transparency and building credible environmental performance benchmarks for supply chain partners and carbon market stakeholders.

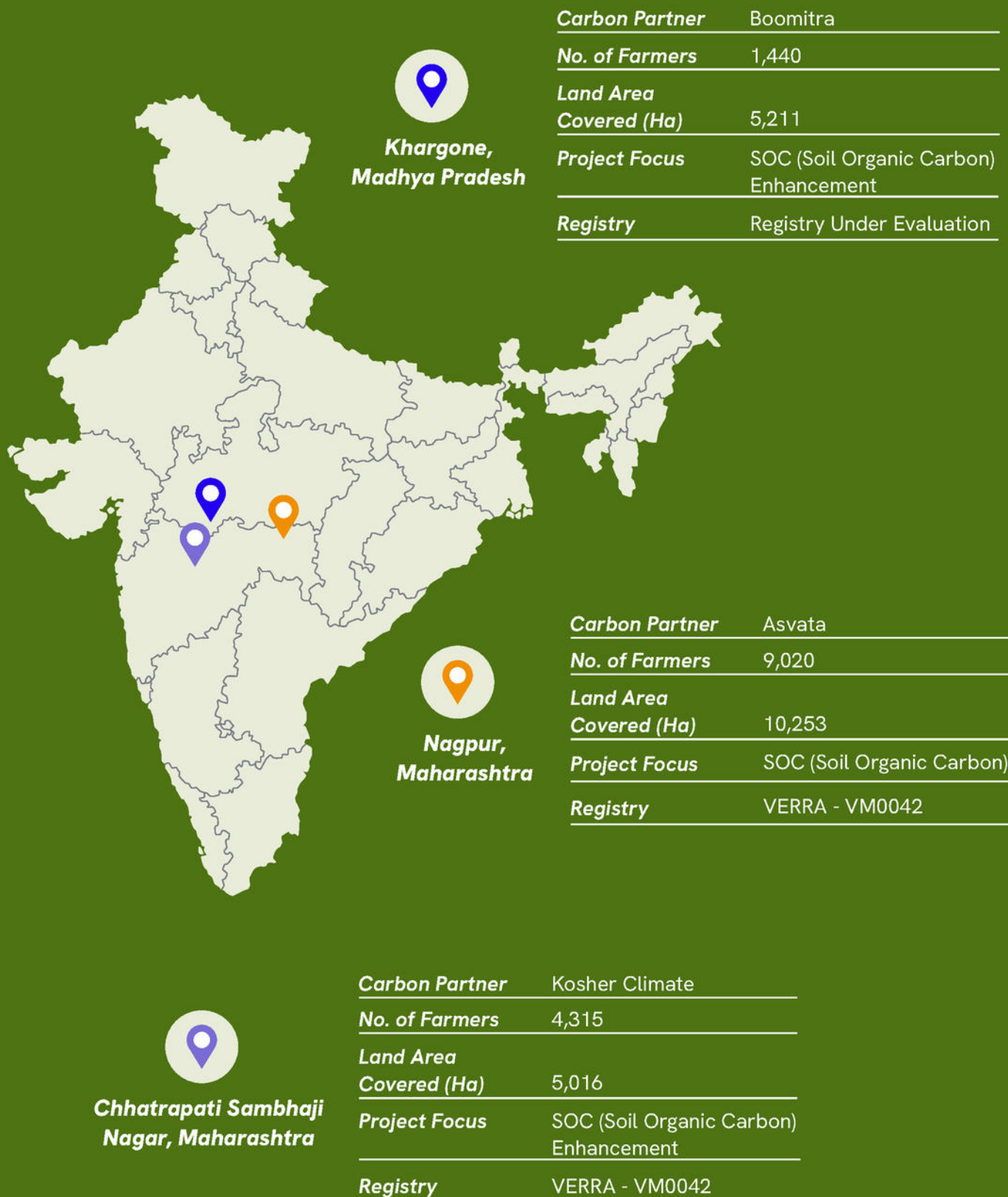


Sustainable Kasturi SOP Handbook - Texprocil

The Beetle Regen team is developing a Sustainable Kasturi Handbook to support the adoption and implementation of regenerative practices in Kasturi Cotton production. The Kasturi Cotton Bharat programme was launched on World Cotton Day, 07th October 2023 to brand and promote quality cotton from India. The programme is a joint initiative of the Ministry of Textiles, Government of India, trade bodies & industry. TEXPROCIL is the designated agency to implement the programme. This SOP aims to enhance awareness among farmers about best practices and sustainable farming techniques in an easy-to-understand language. The manual draws on scientific publications and expert guidance on sustainable cotton practices.

Carbon Projects

Beetle Regen Solutions is actively developing carbon projects that integrate regenerative agriculture with robust measurement and verification systems, enabling the generation of credible climate outcomes and access to carbon markets.

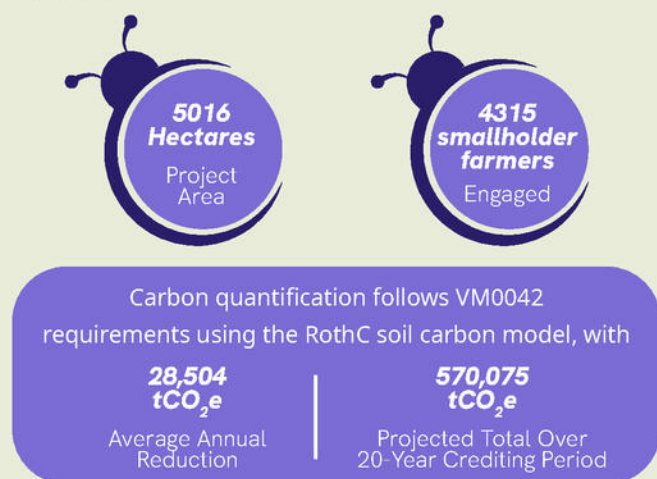


Geographic Footprint of Our Carbon Projects

Chhatrapati Sambhaji Nagar, Maharashtra

In Chhatrapati Sambhaji Nagar, Beetle has partnered with Kosher Climate to develop a soil carbon project under Verra's VM0042- Improved Agricultural Land Management (IALM) methodology. The project spans approximately **5016 hectares** and engages **4315** smallholder cotton farmers.

The intervention focuses on transitioning farmers from conventional monocropping systems toward regenerative land management practices including reduced tillage, residue incorporation, optimized nutrient application, intercropping, and organic amendments.



Nagpur, Maharashtra

In Nagpur, Beetle is partnering with Asvata to develop a soil carbon project under Verra's VM0042- Improved Agricultural Land Management (IALM) methodology. The project currently covers approximately **10,253 hectares**, engaging **9020** smallholder cotton farmers across **32 villages**. The initiative focuses on enhancing soil organic carbon (SOC) and reducing emission intensity through the adoption of improved cropland management practices. These include reduced tillage intensity, optimized and reduced synthetic nitrogen application, crop residue retention, intercropping, and the application of organic amendments to improve soil structure and nutrient cycling. The project is currently under documentation and pre-validation stages within the VCS pipeline, with scope for phased scaling under a grouped project framework.



Khargone, Madhya Pradesh

In Khargone, Beetle has partnered with Boomitra to enable scalable soil organic carbon (SOC) monitoring through a technology-enabled digital MRV (dMRV) framework. The project currently engages **1,440 farmers** across 1629 **farms**, supported by **45 active representatives**. A total of **5,211 acres** is mapped under the project, of which **5,211 acres** have been onboarded and **5,011 acres** have been verified through field-level validation and digital monitoring systems. The project focuses on regenerative cotton cultivation designed to enhance SOC stocks through improved cropland management practices, including optimized nutrient application, reduced tillage intensity, crop residue management, and intercropping.

Boomitra's remote sensing and soil modelling platform supports ongoing monitoring of soil carbon improvements and practice adoption at scale. The project is positioned for future registry integration, enabling aggregation of soil carbon benefits once the final standard selection is confirmed.



A close-up photograph of two cotton bolls on a dark brown stem. The bolls are white and fluffy, with some yellowish-brown dried bracts visible. The background is a soft, out-of-focus green. The text is positioned to the right of the upper boll.

The HDPS programme reached more than **2,800 farmers across 2,100 hectares** in Madhya Pradesh and Maharashtra

High Density Planting System

Beetle's High-Density Planting System (HDPS) initiative has demonstrated the potential of innovative agronomic practices to improve cotton productivity amongst smallholder farmers. Over the past two years, the programme reached more than **2,800 farmers across 2,100 hectares** in Madhya Pradesh and Maharashtra, providing hands-on training, field demonstrations and technical support to promote HDPS adoption.



The initiative addressed the limited uptake of HDPS in smallholder farming systems by improving farmer awareness and access to practical guidance. Early results indicate strong farmer acceptance, with participating farmers reporting an average cotton yield increase of approximately **25%** compared to conventional planting methods. Additional benefits include improved crop uniformity, enhanced resilience under rainfed conditions and more efficient use of agricultural inputs.

Beyond economic gains, the initiative has generated significant environmental value. By increasing productivity per hectare and optimizing resource use, HDPS contributes to lower-emission cotton production and is estimated to reduce the carbon footprint per kilogram of cotton fibre by **25-35%**. Improved crop health and precision nutrient management further support sustainable cotton cultivation. The success of the pilot provides a sturdy foundation for scaling HDPS adoption and advancing climate-smart agriculture among cotton-growing communities.

Key Numbers

2,800 +

Farmers Reached

in Madhya Pradesh &
Maharashtra

2,100 +

Hectares Covered

Key Numbers

25%

**Average increase in
cotton yield**

vs conventional planting
methods

25 - 35%

**Reduction in carbon
footprint per kg of
cotton fibre**

Improved crop uniformity,
resilience under rainfed
conditions & efficient use
of inputs

Advancing Farmer - Led Biochar Adoption



Building on the foundation established in the previous year, Beetle continued to promote biochar as a practical regenerative agriculture solution for farmers. The initiative focuses on converting cotton stalks into biochar, creating value from agricultural waste while improving soil health and reducing open-field burning. Over the last two years, farmers have collectively produced and applied approximately — — — — —

Initially introduced through demonstrations and capacity-building efforts, biochar production has increasingly become farmer-led, with many farmers independently producing biochar from cotton stalk using the Open Earth Cone Pit method (for which suitable training has been imparted by our teams). Farmers have reported improved soil health, better water-holding capacity. In addition to improving soil fertility, biochar contributes to long-term carbon sequestration by locking carbon into the soil for extended periods.

The continued uptake of biochar reflects increasing farmer confidence and highlights the potential for scaling low-cost, locally managed solutions that simultaneously address soil health and climate resilience.

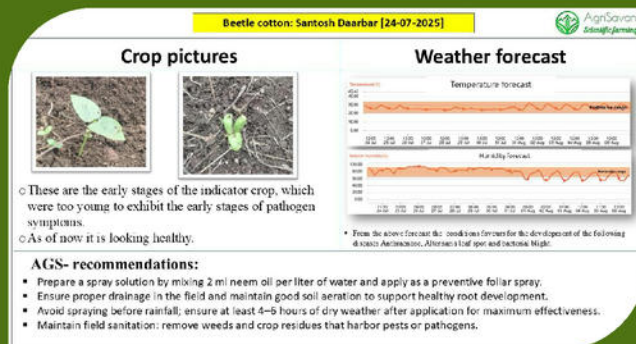
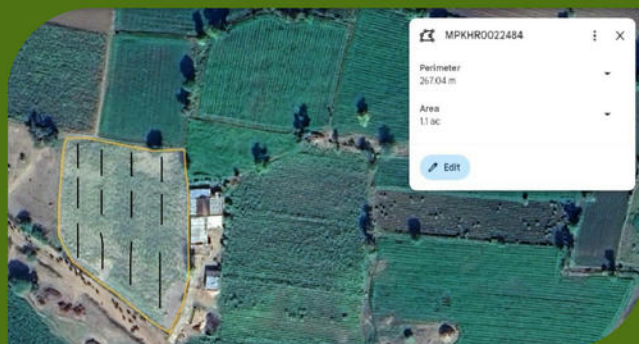
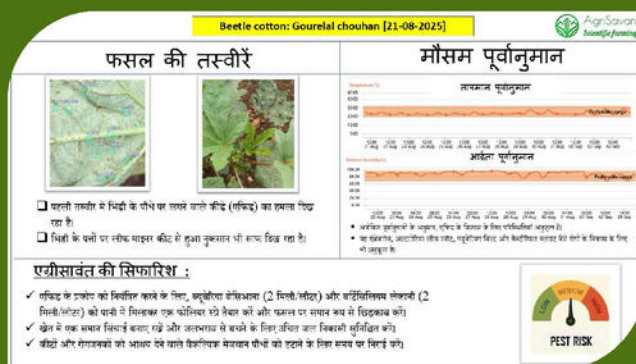
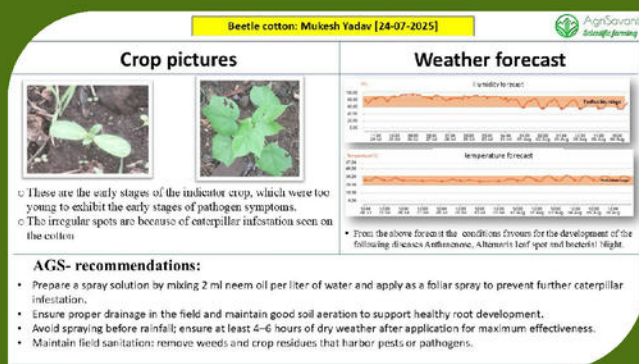
A large, dark, granular pile of biochar material, likely made from wood chips, is shown outdoors. The material is dark brown to black and has a crumbly, irregular texture. In the background, there are blurred green trees and a clear blue sky. A white rectangular text box is overlaid on the lower-left portion of the pile.

935 metric tonnes of biochar (807 MT in the previous year and an additional 128.25 MT during the reporting year).

Innovation Partnerships in Action

Indicator - Based Crop Monitoring through AgriSavant

Beetle partnered with AgriSavant to pilot an indicator-based crop monitoring system aimed at strengthening field-level decision-making in cotton cultivation. The intervention leveraged geo-tagged plot mapping, crop imagery, weather analytics, pest surveillance, and agronomic advisories to provide timely insights on crop performance and risks.



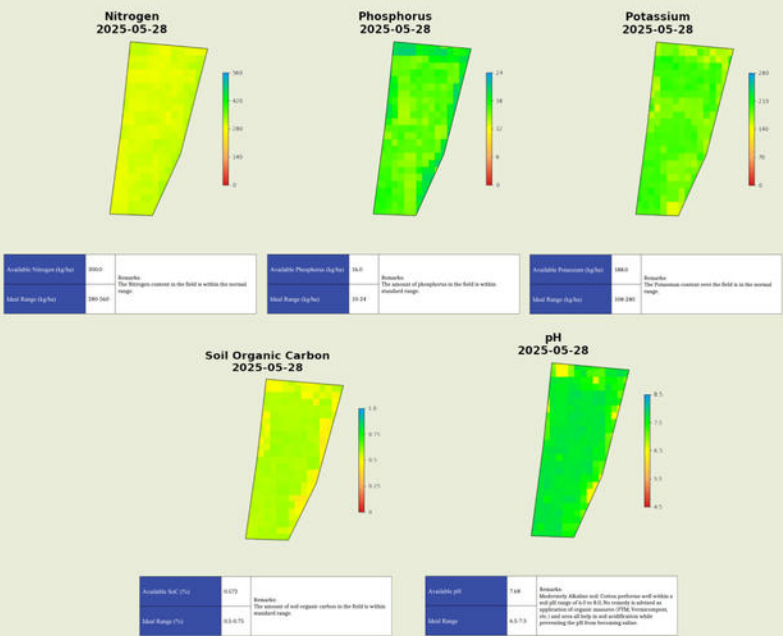
The system enabled regular monitoring of crop growth across designated field zones, helping identify early signs of pest incidence, nutrient deficiencies and weather-related vulnerabilities. Farmers received data-driven recommendations on crop management practices, supporting more informed and timely interventions.

By integrating digital monitoring with field observations, ***the initiative enhanced the precision and effectiveness of extension services while creating a foundation for scalable, technology-enabled advisory systems.*** The pilot demonstrated the potential of digital agriculture tools to improve crop health monitoring, optimize input use and strengthen climate resilience, contributing to more productive and sustainable cotton farming systems.

Satellite - Based Soil Testing through Satyukt

To promote precision agriculture and improve nutrient management, Beetle partnered with Satyukt to pilot satellite-based soil testing for cotton farmers. The technology utilizes remote sensing and geospatial analytics to generate field-level soil health insights, including soil organic carbon, pH status, nutrient availability and crop-specific fertilizer recommendations.

The intervention enabled rapid and cost-effective soil assessment without the need for extensive physical sampling, providing farmers with actionable recommendations tailored to their field conditions. Through digital soil health reports, farmers gained a better understanding of nutrient deficiencies and optimal input requirements, supporting more efficient fertilizer use and improved soil management practices. The pilot demonstrated the potential of satellite-enabled technologies to support data-driven farm management and advance sustainable cotton production at scale.





Industrial Decarbonization: Pathway to Carbon Neutral Cotton

Beetle's long-term strategic vision is focused on industrial decarbonization across cotton-based value chains, with carbon-neutral cotton fibre emerging as an outcome of that transition. Rather than treating fibre neutrality as a standalone claim, the focus is on structurally reducing emissions across upstream agriculture and energy intensive processing.

The proposed model links regenerative cotton production with industrial biochar-based energy and input systems. Agricultural residues, particularly cotton stalk biomass can be processed through modular pyrolysis units to produce biochar, syngas, bio-oil and wood vinegar. These outputs can then be strategically integrated across the value chain, replacing fossil fuels in manufacturing, enhancing soil health, and supporting bio-input systems in agriculture.

In parallel, Beetle is designing pilot concepts for an end-to-end low-carbon farm-to-garment system that combines regenagri-certified cotton sourcing, industrial biochar deployment, renewable energy integration, LCA-based measurement, and digital MRV-enabled credit generation. Over time, if soil carbon gains, biomass-based fossil fuel substitution and verified carbon removal are integrated within a traceable framework, cotton fibre from such systems could credibly move toward carbon neutrality.



Bangladesh Initiatives



Biochar Project

Beetle has initiated pilot interventions in Bangladesh focused on biochar and water-efficient agricultural practices, aimed at improving soil health, resource efficiency and climate resilience.



Beetle Regen Solutions Bangladesh established a Biochar Production Centre to evaluate the impact of biochar application on rice-based farming systems. During the pilot phase, **40 farmers** participated across **25 acres** of integrated farms comprising rice, vegetables and fish production. The project utilised locally available Hogla leaves (*Typha domingensis* / *Typha elephantina*) as feedstock for biochar production, demonstrating the effective use of locally available biomass for regenerative agriculture.

40 Farmers participated	25 Acres of integrated farms	44.5 Metric Tonnes of biomass were processed
14,900 Kg of biochar produced	12,855 Kg of biochar distributed to farmers	2,045 Kg retained as reserve stock

The pilot is expected to generate valuable evidence on the role of biochar in improving soil health, enhancing crop productivity, increasing soil carbon and strengthening the resilience of rice-based production systems under changing climatic conditions.



AWD (Alternate Wetting and Drying) Project

Beetle Regen Solutions has partnered with ERDA to implement a pilot Alternate Wetting and Drying (AWD) project in Bangladesh.

The initiative aims:

~10,000
hectares
aimed to cover

30,000
rice farmers
aimed to engage across the districts of
Jhenaidah, Chuadanga & Meherpur

The AWD intervention seeks to promote efficient irrigation practices by reducing water use without compromising crop productivity. The project is also expected to contribute to lower greenhouse gas emissions from rice cultivation, optimise water resource management, reduce production costs and strengthen climate resilience among farming communities.

Together, the Biochar and AWD initiatives mark an important milestone in Beetle's expansion into Bangladesh. By promoting science-based regenerative agriculture practices tailored to local farming systems, these initiatives establish a solid foundation for scaling climate-smart agriculture, improving farmer livelihoods and supporting long-term environmental sustainability across the region.



Partnerships & Collaborations

Participation in Remove Accelerator:

Beetle Regen Solutions was selected for the second cohort of the remove Accelerator program during the year, to advance scalable Carbon Dioxide Removal (CDR) solutions. Through the **12-week** accelerator, Beetle engaged in expert-led coaching, technical sessions on fundraising and storytelling, carbon policy EU, US and India, CDR scope and markets, buyer perspectives and so on. Peer learning with other climate innovators working on durable carbon removal pathways also added value. The program supported the team in strengthening the biochar-based CDR model, refining project design and MRV considerations and positioning Beetle's farmer-centric regenerative agriculture approach within the global carbon removal ecosystem. Participation in the accelerator also helped expand Beetle's network with researchers, investors and CDR practitioners working to scale credible climate solutions.



Beetle is a strategic partner to IDH under the RPLC initiative, leading the development and delivery of standardized capacity-building modules for implementing partners (IPs). Through Training of Trainers (ToTs), these modules-covering Biochar, Regenerative Cotton Systems (with HDPS), and Bio-input Resource Centres (BRCs)-enable consistent adoption of regenerative practices across the landscape. This collaboration strengthens partner alignment, improves field implementation quality and supports robust monitoring, learning and MRV for scalable impact.



CSI C-Sink Trader Endorsement

During the year, Beetle was endorsed as a **C-Sink Trader under Carbon Standards International (CSI)**, marking a significant step in our carbon journey.

This enables Beetle to:

- Aggregate and trade certified carbon removal credits
- Connect farm-level climate action with global carbon markets
- Ensure traceability, quality, and transparency of carbon credits

This milestone strengthens Beetle's ability to build a credible carbon portfolio and scale farmer-led climate solutions while engaging with emerging carbon market opportunities.







Looking Ahead: Future Strategy

As Beetle enters its next phase of growth, our focus is on building scalable models that connect regenerative agriculture, climate action, and sustainable value chains. While farmer adoption of regenerative practices remains central to our mission, we see significant opportunities in strengthening the link between on-farm interventions and broader environmental and industrial outcomes. In the coming years, Beetle will deepen its engagement in carbon project development, with a single-minded focus on increasing soil organic carbon in soils, biochar-based carbon removal and robust Measurement, Reporting and Verification (MRV) systems. Our goal is to create credible, farmer-inclusive carbon programmes that generate measurable climate benefits while delivering additional value to farming communities.

A key strategic priority will be advancing pathways for industrial decarbonization. Building on our work in regenerative cotton systems, biochar, and life cycle assessment, we aim to develop partnerships that support the transition toward lower-carbon textile and agricultural value chains. This includes exploring opportunities to integrate regenerative sourcing, carbon-smart production systems, bio-based inputs, and climate accounting frameworks across supply chains.

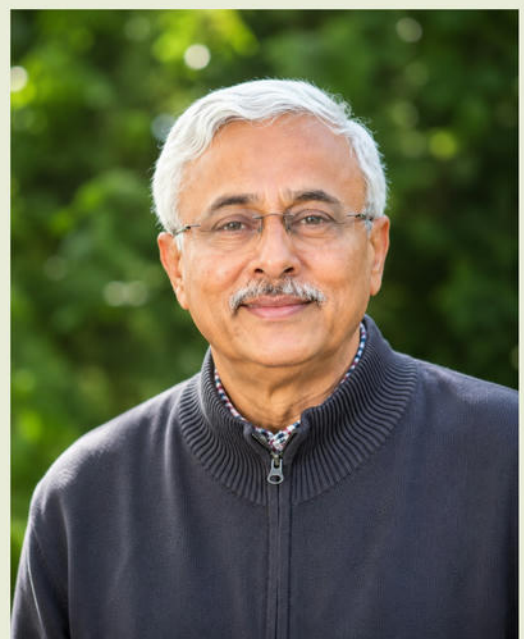
We will also continue to strengthen collaborations with brands, textile manufacturers, carbon developers, technology providers, research institutions and development organizations. These partnerships will be critical in accelerating innovation, scaling impact and building practical solutions that address both climate and market challenges. Geographically, Beetle will continue to consolidate its work in existing programme areas while exploring opportunities to expand into new regions and markets where regenerative and climate-smart agriculture can create meaningful impact.

As sustainability expectations continue to evolve, Beetle remains committed to developing farmer-centric solutions that contribute to resilient livelihoods, ecosystem restoration and the transition toward a low-carbon future.

Rajeev Baruah

Chief Strategy Advisor

Beetle Regen Solutions





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