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Market & Industry Analysis for Corporate Buyers

1. Industry Overview

The global carbon credit market is rapidly expanding, driven by stricter regulatory frameworks, increasing investor pressure on ESG performance, and net-zero commitments from major multinational corporations. Voluntary carbon markets alone are projected to exceed \$50 billion annually by 2030, with biochar carbon removal credits (BCRCs) representing one of the fastest-growing segments.

2. Biochar Market Growth & Demand Drivers

- **Market Size:** According to Allied Market Research, the biochar market is projected to exceed \$3.1 billion by 2030, with a compound annual growth rate (CAGR) of 13.2%, driven by demand from the agriculture, construction, and industrial sectors.
- **Sustainability Impact:** Biochar provides long-term carbon sequestration, enhancing soil fertility, water retention, and agricultural productivity.
- **Global Carbon Pricing Growth:** Based on estimates from the Taskforce on Scaling Voluntary Carbon Markets and Bloomberg NEF, the annual carbon credit trading volume is anticipated to surpass \$100 billion by 2030, reflecting the rapid expansion of carbon transactions.
- **Market Size Projection:** According to Grand View Research, the total carbon credit market valuation is expected to reach \$4.73 trillion by 2030. This valuation includes future assets, investment potential, and regulatory-driven demand, fueled by corporate sustainability mandates and regulatory enforcement. It also illustrates the rapid growth and increasing value of verified carbon offsets.

3. Corporate Net-Zero Landscape

More than 5,000 companies globally have committed to Science-Based Targets (SBTi) or have adopted formal net-zero pledges. This group includes leaders such as Microsoft, Amazon, Apple, Shell, and Delta, all of which necessitate permanent carbon removals to meet their Scope 3 offset needs. This rise in demand is fostering a highly competitive environment for securing high-integrity, future-proof carbon credits.

4. MBK's Biochar's Strategic Positioning

Biochar carbon removal presents one of the most scalable, verifiable, and co-benefit-rich solutions available:

- **Permanence:** Over 1,000 years of carbon stability.
- **Soil Productivity:** Improves yield, water retention, and nutrient efficiency.
- **Energy Recovery:** Captures waste heat for grid power or circular use.
- **Verification:** Compliant with Verra VM0044, Gold Standard, Puro.Earth, and Climate Action Reserve methodologies.

MBK's position at the industrial scale, supported by multiple certifications and blockchain enabled MRV, offers a compelling and credible option for ESG-driven corporate buyers.

5. Competitive Advantage of MBK

- **Scale:** 3 million tons of CO₂e removal in Year 1, increasing to 110 million by Year 10.
- **Certifications:** Verra, Gold Standard, Puro.Earth, and Climate Action Reserve.
- **Third-Party Verification:** DNV and SCS Global post-commissioning.
- **Technology Integration:** IBM Blockchain Hyperledger, ABB automation, and AI for operations and credit traceability.
- **Location Advantage:** Located in Fort Bend County, Texas – access to renewable power, feedstock, and logistics infrastructure.

6. Buyer Value Proposition

- **Premium Credit Quality:** High-integrity, permanent, multi-certified carbon removal.
- **Pricing Upside Protection:** Secure forward contracts at fixed price (...e.g., TBD/ton for early commitment).
- **ESG & Reporting Compliance:** Traceable MRV for CDP, SEC, SASB, and TCFD alignment.
- **Co-Benefits:** Soil regeneration, rural job creation, renewable energy outputs.

7. Market Risks & Mitigation

- **Certification Delay:** Mitigated by engaging verification partner's pre-build.
- **Feedstock Risk:** Long-term supply agreements with agricultural and forestry partners.
- **Policy Shifts:** Aligned with U.S. 45Q, EU ETS, and upcoming global carbon pricing mechanisms.

Conclusion

MBK provides one of the most advanced, transparent, and scalable carbon removal solutions globally. For corporate buyers aiming for long-term impact, reputational value, and verifiable emissions reductions, this project presents a strategic opportunity to lead in sustainability markets while securing valuable, high-quality credits at scale.

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