

CarbonCred

Micro Carbon Credits for the Silent 90%

Modern Investor-Grade Presentation | Team HackDaniels



The Problem

Current carbon markets were built for conglomerates,
leaving the engine of our economy behind.



The Invisible 90%

Market Exclusive

90% of global businesses are SMEs, yet **less than 1%** participate in carbon markets today.

Cost Prohibitive

Standard carbon audits cost more than the actual credits earned for small scale reductions.



The Barriers to Entry

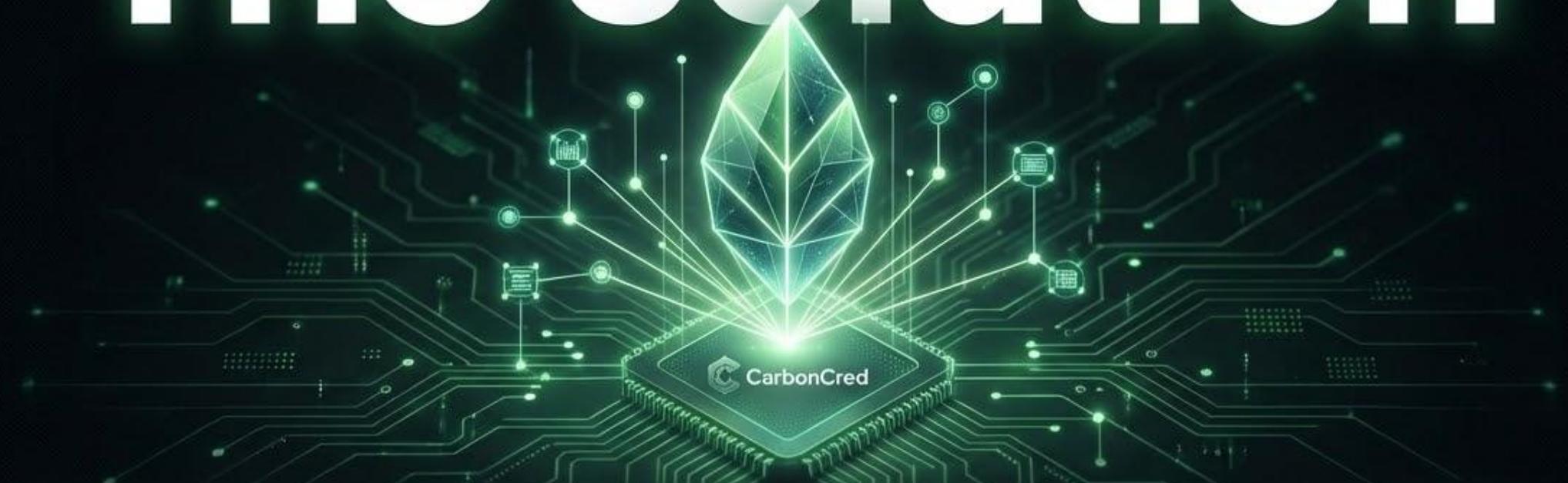
\$15K+

Avg. Carbon Audit Cost

The Complexity Debt

- ✖ Manual data collection takes weeks.
- ✖ Third-party verification is too slow.
- ✖ Minimum credit thresholds are too high (1 ton+).

The Solution

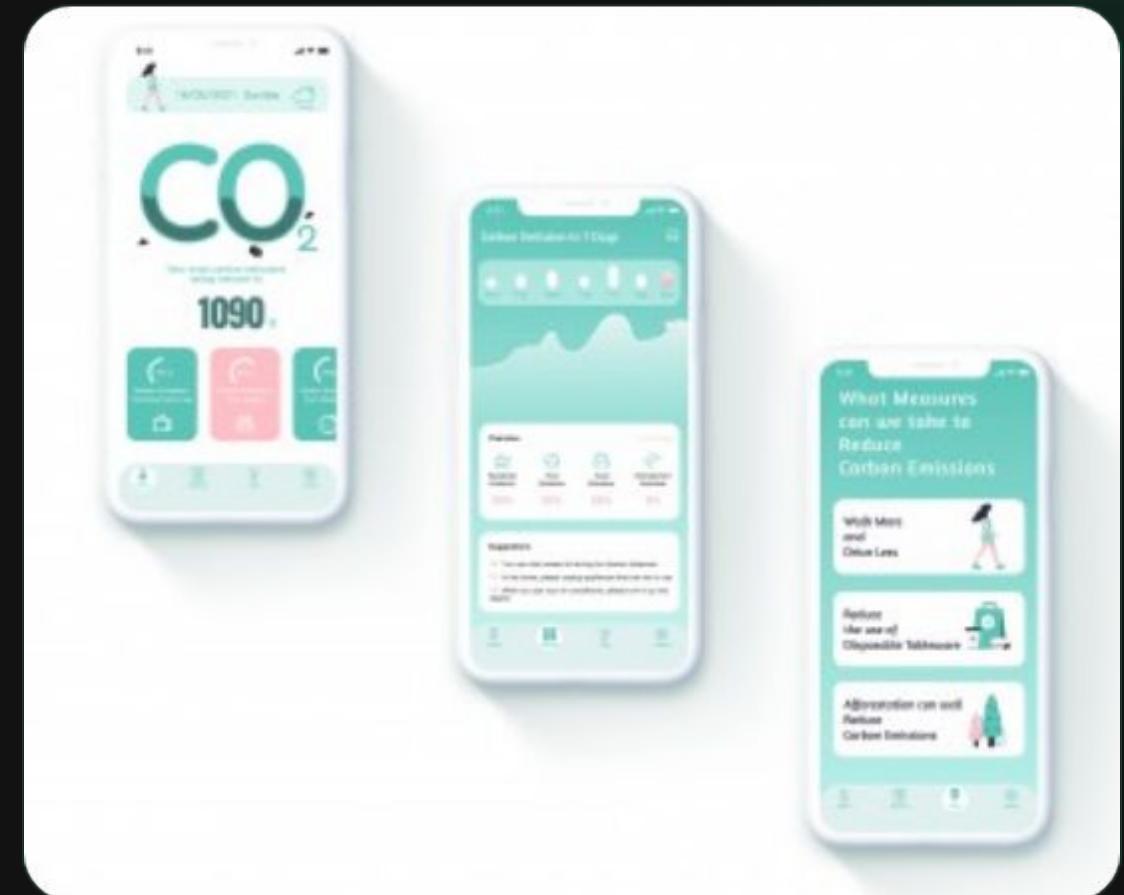


Automated, granular, and accessible
carbon wealth for everyone.

Emissions into Revenue

CarbonCred enables SMEs to:

- ➡ **Track:** Automated data ingestion from utility bills & waste.
- ➡ **Earn:** Convert kg of CO₂ reductions into tradeable credits.
- ➡ **Trade:** Sell on our frictionless global marketplace.



Micro-Carbon Innovation

Traditional markets trade in **metric tons**. We trade in **kilograms**.

By lowering granularity, we make every small action count—from switching to LED lights to optimizing local delivery routes.



End-to-End Lifecycle



Minting

Submit Activity → AI
Verification → Issue
Credit → Certificate.



Transfer

Input Recipient →
Ledger Update →
Confirmation.



Purchase

Marketplace Selection
→ Payment → Ledger
Update.



Retirement

AI Verification → Credits
Marked Retired →
Reporting.

MVP Core Features



Emission Tracker

Direct integration with utility APIs for automatic CO2 calculation.



AI Verification

Scikit-learn models to detect data anomalies and prevent fraudulent claims.



Minting Engine

Instant conversion of verified reductions into tradeable micro-assets.



Hash-Chain

Immutable, blockchain-inspired audit trail for all transactions.

Technical Architecture

Component	Technology Stack	Function
Frontend	React + Tailwind CSS	Seamless, Responsive Dashboard
Backend	Django REST API	Secure Data Processing
Database	PostgreSQL	Relational Data Persistence
Intelligence	Scikit-learn (ML)	Automated Verification Engine

Trust Without Friction

Why Hybrid vs. Full Blockchain?

Speed & UX

No wallet setup or gas fees.
Transactions happen in milliseconds, not blocks.

Scaling

Works offline and in batches. 10x lower infrastructure cost for our users.

Trust

Hash-chain integrity provides the same immutability as public ledgers.

"Speed of a Database + Trust of a Blockchain"

| Strategy: SME-First



"Shopify for Carbon Credits"

We provide the rails for every SME to launch their own climate asset store. We remove the need for expensive consultants, enabling **revenue from compliance.**

SMEs are desperate for new revenue streams.
CarbonCred provides one while solving climate goals.

Business Model

Transaction Fee

2 - 5% Per Trade

SaaS Subscription

Compliance Dashboard

Enterprise Reporting

Premium ESG Tier

Scalable recurring revenue combined with marketplace liquidity.

Roadmap to Impact

