GreenLift AI
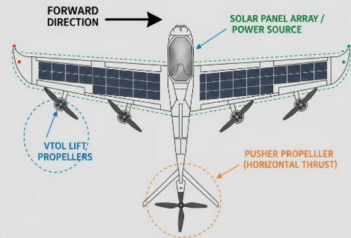
GreenLift AI: Intelligent VTOL Drone Delivery Ecosystem for SMEs

Transforming Last-Mile Logistics with Sustainable AI in Bangladesh

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The Founder: Arman Islam - Technical Visionary

Driving intelligent logistics transformation with expertise in autonomous systems and technical problem-solving.

Arman Islam

Founder & Technical Lead

Background: WRO 2025 participant with strong expertise in autonomous systems, embedded systems, and robotics.

Expertise: Technical problem-solving, implementation strategies, autonomous systems design, and embedded systems development.

Vision: To build a scalable, green logistics network that transforms last-mile delivery and business intelligence for millions of SMEs across South Asia.

Portfolio: cv-of-arman.netlify.app

The $10 Billion Logistics Barrier for Bangladesh's SMEs

Inefficient, costly, and unsustainable logistics are crippling the growth of 10.4 million SMEs.

18-25%
High Cost Burden

Logistics consume 18-25% of SME budgets, severely limiting resources for growth and innovation.

89%
Unreliable Last-Mile

89% of SMEs struggle with costly, unreliable final-delivery logistics that drain operational budgets.

91%
Monsoon Vulnerability

91% report severe delivery delays during rainy seasons, creating supply chain chaos and customer dissatisfaction.

73%
Data Blindness

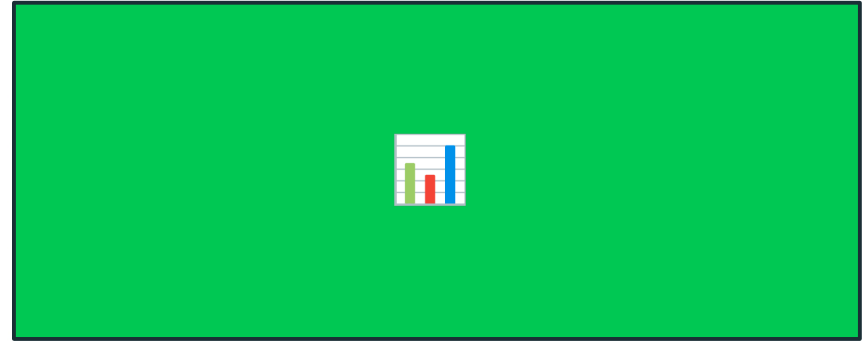73% lack business intelligence tools, missing critical insights on demand patterns and inventory optimization.

GreenLift AI: The Integrated, Sustainable Logistics Ecosystem

A comprehensive hardware-software platform for zero-carbon, AI-powered delivery.

Green-Fuel VTOL Drones

- Autonomous, **hydrogen-electric hybrid** drones
- **1-20 kg payload** capacity
- **20-50 km range** delivery
- **Zero carbon emissions** operations
- Fast, reliable delivery in urban and rural areas

AI-Powered SME Dashboard

- **Demand forecasting** with predictive analytics
- **Inventory management** optimization
- **Cash flow predictions** and insights
- **Customer segmentation** and retention
- Bangla interface with voice alerts and offline capability

Tapping into the Under-served $10+ Billion Market

Targeting the 78% of SMEs in Bangladesh with inadequate logistics infrastructure.

10.4M

Massive Scale

SMEs form the economic backbone of Bangladesh, representing an enormous addressable market.

78%

Underserved

Located in areas with poor logistics infrastructure, representing a massive greenfield opportunity.

$10B+

Market Opportunity

Rapidly expanding e-commerce sector demands reliable, scalable, and fast delivery solutions.

Sustainability Imperative

First-mover advantage in offering a sustainability-first approach with hydrogen-electric drones to reduce carbon footprint and align with global climate goals.

AI-Driven Efficiency: Our Unfair Advantage

Machine learning powers every stage of the delivery process, maximizing speed and minimizing cost.

Demand Forecasting

Predictive analytics to anticipate customer needs and optimize inventory levels proactively.

TensorFlow ● PyTorch

Route Optimization

Real-time calculation of the fastest, most energy-efficient delivery paths.

ROS ● PX4 Autopilot

Autonomous Operations

Automated decision-making for flight control, safety, and compliance standards.

AI Path Planning ● Safety Protocols

Zero-Carbon Operations

Solar-powered fleet eliminates fuel costs and carbon emissions, a critical differentiator.

Hydrogen-Electric Hybrid ● Solar Integration

Bringing Intelligent Delivery to Life

A look at the intuitive, end-to-end GreenLift AI platform.

📊 **SME Dashboard**

Intuitive control center for scheduling, dispatching, and real-time performance monitoring.

📍 **Real-Time Tracking**

Live GPS positioning and predictive arrival estimates for every flight.

⚙️ **Automated Scheduling**

AI-optimized delivery routes reduce delays and maximize daily capacity.

📈 **Business Analytics**

Comprehensive reports on efficiency, profitability, and customer satisfaction.

🚁 **Hybrid VTOL Hardware**

Vertical take-off/landing in tight spaces with efficient horizontal flight capability.

A Flexible and Scalable Revenue Strategy

Multiple revenue streams designed for low entry barrier and high customer lifetime value.

Pay-Per-Delivery

15–30 BDT

Variable revenue scales directly with transaction volume, aligned with customer success and operational efficiency.

AI Dashboard Subscription

500–2,000 BDT/mo

Recurring revenue for analytics, scheduling, and premium features that drive customer retention.

Fleet Leasing (EaaS)

Equipment-as-Service

Lowers customer capital requirements with maintenance and support included, expanding addressable market.

Strategic Partnerships

Revenue Sharing

Co-branded solutions with e-commerce and logistics platforms expand reach and market credibility.

Phased Rollout: From Pilot to National Scale

Targeting high-density SME clusters for rapid proof-of-concept and scaling.

1

Pilot Launch

Q4 2024

- ▶ Deploy 10–15 drones
- ▶ 50 SME partners
- ▶ Pabna district focus
- ▶ Real-world validation

2

Strategic Partnerships

2025

- ▶ Business associations
- ▶ E-commerce platforms
- ▶ Distribution channels
- ▶ Market credibility

3

Regional Expansion

2025-2026

- ▶ Neighboring districts
- ▶ National coverage
- ▶ Urban-to-rural focus
- ▶ Autonomous corridors

🔒 **Regulatory Focus**

Secure necessary BVLOS (Beyond Visual Line of Sight) operational certifications and airspace permits in Bangladesh to enable autonomous drone operations at scale.

Clear Path to Profitability and Scale

Conservative projections based on pilot results and market adoption rates.

1

Year 1: Foundation

No Revenue

- ▶ R&D and prototype development
- ▶ Drone testing and refinement
- ▶ Regulatory clearance pursuit
- ▶ Operational piloting

2

Year 2: Launch

Revenue Begins

- ▶ SME logistics contracts
- ▶ Cold-chain delivery services
- ▶ Campus cargo corridors
- ▶ Initial partner onboarding

3

Year 3: Scale

Commercial Scale-Up

- ▶ Expanded fleet deployment
- ▶ Multi-district operations
- ▶ Autonomous drone corridors
- ▶ Regional market dominance

📈 **Current Traction**

Successful prototype demonstrations, regulatory engagement with Bangladesh aviation authorities, partnerships with Pabna University of Science and Technology, and strong market validation through SME pilot interest.

Our Ask: Accelerating Market Leadership

Seeking 10 Million BDT to complete the prototype and launch the pilot program.

10

Million BDT

This capital directly funds our path to market leadership, positioning GreenLift AI as the definitive SME drone delivery platform in South Asia.

Return on Investment: Clear path to profitability by Year 2, with multi-district autonomous drone corridors by Year 3.

40%

Prototype Completion

Hardware integration, software refinement, and final testing to achieve production-ready systems.

30%

Regulatory Approval & Field Testing

Airspace permits, BVLOS certifications, and real-world validation with regulatory bodies.

30%

Pilot Launch & Team Expansion

Drone deployment in Pabna district, 50 SME partner onboarding, and initial team expansion.

![GreenLift AI logo] **GreenLift AI**

Join the Green Logistics Revolution

Transform the future of SME logistics together. Invest in GreenLift AI and empower millions of SMEs with sustainable, intelligent delivery solutions.

Arman Islam

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View Full Portfolio