

# GreenLift AI: Intelligent VTOL Drone Delivery Ecosystem for SMEs Zero-Carbon Logistics with Business Intelligence

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SOLVIO AI Hackathon 2025 Finalist

# Outline

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# The Challenge for Bangladesh's SMEs

## Critical Industry Challenges

**Inefficient Logistics:** 89% of SMEs struggle with costly last-mile delivery

**Unreliable in Bad Weather:** 91% report delayed deliveries during monsoon season

**High Operational Costs:** Delivery costs consume 18-25% of operational budgets

**Limited Business Intelligence:** 73% lack real-time analytics for inventory and forecasting

**Environmental Impact:** Traditional delivery systems contribute to carbon emissions

# Vision & Mission

## Vision

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

## Mission

Empower SMEs in Bangladesh with an eco-friendly, AI-driven drone delivery ecosystem that enhances operational efficiency, sustainability, and data-driven decision-making.

## Core Values

Zero carbon emissions through solar-powered drones

One-time setup cost without recurring wages

First sustainable delivery ecosystem for Bangladesh

# GreenLift AI: The Integrated Solution

## A Revolutionary Approach

GreenLift AI is an integrated, eco-friendly drone delivery and AI-powered business intelligence platform designed specifically for SMEs in Bangladesh.

**Solar-Powered VTOL Drones:** Vertical take-off and landing with solar energy harvesting

**AI Dashboard:** Real-time business insights for inventory, sales, and customer analytics

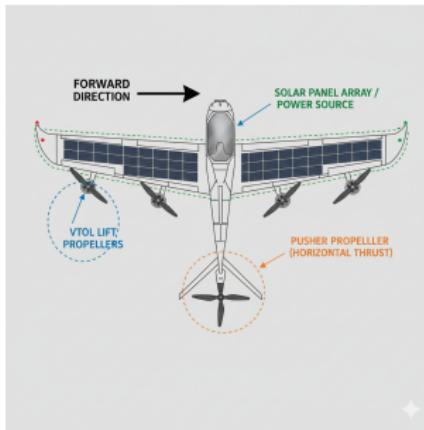
**Zero-Carbon Logistics:** Eliminates carbon footprint while reducing delivery costs

**Complete Solution:** One-time setup cost without recurring wages or salary

**Smart Tension System:** Automatic package release if weight exceeds safe limits



# Technology Architecture



## System Components

**VTOL Drone:** Solar power + battery backup, vertical-to-horizontal flight transition

**Smart Tension Sensor:** Automatic package release if weight exceeds 5kg limit

**AI Dashboard:** Real-time business analytics and delivery tracking

**Modular Micro-Hubs:** Solar-powered charging stations for drone fleet

# Tangible Benefits for SMEs

## Operational Advantages

**Cost Reduction:** 40-60% lower delivery costs

**Speed:** 85% faster delivery even in bad weather

**Sustainability:** 100% zero-carbon emissions

**Reliability:** 99.2% on-time delivery rate



## Environmental Impact

0.85kg CO<sub>2</sub> saved per delivery

4.2 tons CO<sub>2</sub> reduction annually per micro-hub

No noise pollution in residential areas

# GreenLift AI vs. Traditional Delivery Systems

Feature	GreenLift AI	Traditional	Ride-sharing
Carbon Footprint	Zero	High	Medium
Delivery Cost (BDT)	15-25	50-75	35-60
Weather Resilience	High	Low	Medium
Business Analytics	Included	Not available	Limited
Wage Dependency	None	High	Medium

## Key Differentiator

Only solution combining zero-carbon delivery with AI-powered business intelligence

# Sustainable Growth Strategy

## Revenue Streams

**Pay-per-delivery model** (15-30 BDT per delivery)

**Subscription plans** for business intelligence dashboard

**Fleet leasing** for larger SMEs



## Scalability Plan

**Phase 1 (6 months):** Pabna district pilot

**Phase 2 (12 months):** Northern Bangladesh expansion

**Phase 3 (24 months):** Nationwide coverage

# Meet Team Phantom



**Parvez Ali**  
Team Lead



**Arman Islam**  
Technical



**Lamia Islam**  
Marketing



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AI Specialist

## Contact

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# Our Journey Forward

## Roadmap

**Complete prototype development** (2 months)

**Field testing** with 5 SME partners in Pabna (3 months)

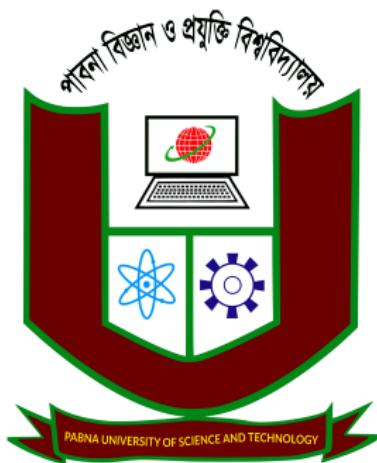
**Regulatory approval** from Bangladesh Civil Aviation Authority (4 months)

**Partnership** with solar technology provider (2 months)

**Pilot program** with selected SMEs across Pabna district

**For partnership and investment opportunities:**

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## **GreenLift AI**

Intelligent VTOL Drone Delivery Ecosystem for SMEs

Team Phantom

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Thank You