



**BETA**  
TECHNOLOGIES

# Meet BETA

BETA is an electric aerospace company that is developing systems to enable customers to complete all-electric cargo, logistics, medical transport, and passenger missions

We are developing:

- Electric aircraft with distributed propulsion
- Multimodal charging infrastructure to enable EVs of today and tomorrow
- Flight training and simulators to train pilots and crew



# Meet ALIA

## Efficient

ALIA's lift-over-drag ratio outperforms most aircraft

## Utilitarian

Best all electric range and payload

## Elegant

ALIA's design is inspired by nature - the long migrating Arctic Tern

## Versatile

Cargo and passenger configurations



CARGO



PASSENGER

ZERO EMISSIONS

# Pragmatic Charging Solutions



BETA has developed a charge solution to enable electric transportation, and is working with regulators and operators to implement a network across the U.S.

**Multimodal:** Supports all EVs, including aircraft, trucks, cars - not just BETA's ALIA

**<1 hour charge:** Harmony between aircraft and chargers enables safe supercharging

**Retractable reel:** 50ft cord provides flexible aircraft parking and location to minimize aircraft ground handling

**Mobile app:** Seamless access to reliable charging for individuals and enterprise users

# Training and Simulation



BETA is building a dedicated curriculum to support the education and certification of next-generation pilots and maintainers who will work on electric aircraft.

## **Training as-a-service model**

Creating a program to train pilots and maintainers on electric aircraft (partnering with CAE)

## **Custom training tools**

Highly realistic, custom simulators developed in-house for aircraft development, pilot training, and stakeholder education

## **Education**

Inspiring the next generation of pilots and engineers by exposing them to electric flight

# Committed Partners

We have a versatile aircraft design with announced customers across four verticals, and have raised more than \$800 million from financial institutions and funds,



## Capital Investors

---



## Defense Partners

---



## Cargo Customers

---



## Medical Customers

---



## Passenger Customers

---



# Deep on Enabling Technologies

## Vertically integrated electric propulsion system

Designing, developing, and manufacturing proprietary motors, inverters, batteries and controls, simulation software and hardware

## Partnerships for existing technologies

Working with leaders in the aerospace supply chain for remaining critical elements of the aircraft

## This strategic approach

- Creates licensing possibilities around core IP
- De-risks path to certification and production



Enabling Beta Technologies

Friction Points

Aerospace Tech

# Real-Life Missions - Show Don't Tell

- Operating under Market Survey flight certificate from FAA
- Louisville and back on own charging infrastructure (1,600+ mi)
- Bentonville and back on own charging infrastructure (2,400+ mi)
- Met with U.S. Secretary of Transportation
- Flown through Class B and C airspace
- Completed 336.6 nm flight on five battery packs
- Completed first 50ft battery drop test (with FAA, NIAR)
- U.S. Army conducted first manned flight of an electric aircraft
- U.S. Air Force conducted first manned flight of an electric aircraft
- Successful maneuvering hover with SN2
- Awarded first manned Military Flight Release from USAF
- 3+ years of full-scale flights (*full-scale pre-engagement program*)











EXPERIMENTAL

ALIA 250c

# Extensive Safety and Compliance Tests



- Partnered with NIAR and FAA to conduct first-ever 50ft drop test on a full-scale (800V) battery system
- Successful result; BETA-designed battery pack showed no significant damage at cell or pack level
- Demonstrated completion of intended means of compliance for certification
- Important step toward creating a foundation of battery safety and testing for the industry

# Progressing Toward Manufacturing



**MANUFACTURING AND ASSEMBLY FACILITY**  
*(Photo from Q4 2022)*

# Establishing Japan's eVTOL Market

- Acceleration of EV adoption is critical to meet 46% reduction in GhG emissions by 2030 as set out by Japan's NDC to the Secretariat of the United Nations Framework Convention on Climate Change.
- For Japan to be net-zero by 2050 (as pledged in Japan's NDC), infrastructure needs to be developed today to support electrification of all transportation - not simply ground vehicles.
- Sojitz has invested in BETA to provide sustainable aviation and charging solutions to the Japanese market.



# Osaka to Tokyo



## Easing traffic

As the biggest city, and home to the most-congested expressway in Japan, Tokyo and Osaka continue to study traffic patterns and work toward decongesting the central city and surrounding areas. The short-hop electric flight solution that BETA offers opens up possibilities that were not available before and does it in an environmentally conscious way.

# Why BETA?

## Simple Design

BETA is elegantly simple - designed for higher reliability and less operating economics

## Holistic Approach

BETA is a systems company, developing product, infrastructure, and a trained workforce - with owned IP in our core competencies

## Cargo First

BETA is focused on serving markets with known demand and less regulatory friction

## Zero Emissions

BETA is part of the solution to the global climate crisis

