

Bird Renewables – Air-Only Passenger Drone Manufacturing Project

Future Aerial Mobility Manufacturing & Licensing Concept

Bird Renewables is developing an advanced **Air-Only Passenger Drone Manufacturing Project** as part of its future green technology and innovation portfolio. The main focus of Bird Renewables is hydrogen core technology, hydrogen-based electrolyser invention, green fuel systems, clean energy, and advanced R&D. Along with this core vision, the passenger drone project is one of the founder's long-time dream concepts from childhood, developed through years of practical ideas, model-making, design thinking, and innovation research.

This project is not a road vehicle at the present stage. The current concept is designed as an **air-only passenger drone**. Future development may include a separate **Road & Sky dual-mode design**, subject to engineering, safety, and Government approvals.

Project Vision

The Bird Renewables passenger drone project is created for future short-distance and long-distance aerial mobility. The concept is designed for emergency travel, hospital support, airport connectivity, organ shifting, premium passenger movement, and special-purpose transport services.

The project includes ideas for **2-seater and 4-seater passenger drone models**, with lightweight body design, advanced motor placement, smart control systems, safety monitoring, remote operation, and future AI-supported navigation.

Bird Renewables' objective is to develop the complete manufacturing concept, body design, circuit integration, dashboard system, safety panel, control system, testing process, and factory setup model. The project can be offered to large manufacturers under a **technology licensing / manufacturing setup agreement**.

Founder's Innovation Background

The founder has been deeply involved in green fuel, hydrogen energy, HHO technology, electrolyser innovation, and clean energy research. The core motto of Bird Renewables is to create future-ready energy solutions using **green hydrogen, green fuel, electrical energy, and alternative fuel technology**.

The drone project is also connected to the founder's childhood dream. From childhood, the founder had interest in making small planes, airplane models, flying concepts, propeller ideas, lightweight mechanisms, and airframe designs. Today, this dream is being developed into a professional manufacturing and licensing concept.

Manufacturing Factory Setup Concept

Bird Renewables' proposed drone factory setup is designed as a complete assembly, integration, and testing facility. The factory will focus on manufacturing the drone body, fixing circuits, installing dashboards, integrating imported motors, testing safety systems, and delivering the final assembled unit.

1. Body Design & Body Manufacturing

The drone body will be designed with a premium, lightweight, aerodynamic structure. The cabin, seating, glass canopy, wing connection, tail section, landing support, and body panels will be developed based on the approved design concept.

The body will be manufactured with lightweight materials suitable for future aerial mobility. The design focus includes:

- Premium passenger cabin
 - Lightweight body mechanism
 - Strong aerodynamic shape
 - 2-seater and 4-seater options
 - Long wing structure for efficient flying
 - Tail pusher motor arrangement
 - Passenger comfort and safety-oriented cabin design
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2. Circuit Board & Dashboard Design

The factory setup includes complete circuit board design, dashboard integration, control panel fixing, and electronic system installation.

The dashboard and circuit system may include:

- Main control board
- Motor control system
- Power management system
- Battery monitoring system
- Dashboard display
- Safety alert system
- Flight control interface
- Manual mode controls
- Autopilot mode controls
- Remote operation interface
- Government/admin support panel integration
- Service and diagnostic panel

This system will be developed to support future autopilot, manual operation, remote operation, safety management, and Government compliance support.

3. Safety Measures & Management System

Safety is the most important part of the passenger drone project. The concept includes a complete safety management system with monitoring, tracking, and emergency response support.

Planned safety features include:

- Real-time drone tracking
- Google Map / digital map route support
- Geo-fencing support
- Anti-collision monitoring
- Emergency landing support
- Battery safety monitoring
- Motor temperature monitoring
- Cabin oxygen-level monitoring
- Air-conditioned passenger cabin
- Safety alert dashboard
- Remote command centre support
- Flight data recording
- Service and maintenance tracking

The drone will be designed for safe operation, technical monitoring, and future approval requirements.

4. Autopilot, Manual Mode & Remote Mode

The Bird Renewables passenger drone concept includes three major operation modes:

Autopilot Mode

Autopilot mode is planned for programmed route operation, automatic takeoff support, automatic landing support, and smart navigation assistance.

Manual Mode

Manual mode is planned for trained operators or certified control teams to operate the drone when required.

Remote Operation Mode

Remote mode is planned for customer-specific operations such as pickup and drop service, hospital emergency service, airport transfer service, and special-purpose travel service.

The final operation system will be subject to Government rules, airspace permissions, safety certification, and approved control procedures.

5. Motor & Propeller System

Bird Renewables has multiple motor and propeller design concepts, including high-speed motor ideas, double motor concepts, dual-side propeller concepts, and wing-mounted propeller arrangements.

The factory plan includes importing suitable motors from approved suppliers, while Bird Renewables focuses on the drone body, motor placement, circuit integration, system testing, and final assembly.

The proposed air-only drone design includes:

- Four propeller motor units for vertical takeoff
 - Wing-based flight after takeoff
 - Rear tail pusher propeller for forward movement
 - Battery-saving flight concept
 - Optional dual motor / double-side propeller concept
 - Short-distance and long-distance drone model concepts
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6. Assembly, Testing & Delivery

Bird Renewables' factory concept is planned as a complete drone assembly and testing centre.

The process includes:

1. Body manufacturing
 2. Wing and tail section fitting
 3. Cabin and seating installation
 4. Circuit board fixing
 5. Dashboard system installation
 6. Motor and propeller installation
 7. Battery and power system integration
 8. Safety system checking
 9. Map and tracking system integration
 10. Autopilot and manual mode testing
 11. Remote operation testing
 12. Ground test
 13. Static lift test
 14. Controlled flight test
 15. Final quality inspection
 16. Delivery to customer / licensing partner
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Short-Distance Drone Concept

Bird Renewables has ideas and drawings for short-distance passenger drone models. These can be used for:

- Hospital emergency transport
- Organ shifting

- Airport pickup and drop
- Emergency medical support
- Short-distance city travel
- Special service transport
- Premium aerial mobility

Short-distance models may use compact body structures, four propeller motors, advanced lightweight mechanisms, and remote-control support.

Long-Distance Drone Concept

Bird Renewables also has long-distance drone design ideas with wing-based flying concepts. These models are planned for future travel ranges such as:

- 500 km
- 1,000 km
- 2,000 km

The long-distance concept uses wings for efficient forward flight. After vertical takeoff, the lift motors can reduce load or stop, and the rear tail pusher motor can support forward movement. This concept is designed to save battery power and increase flying efficiency.

Technology Licensing Opportunity

Bird Renewables is open to discussion with large manufacturers, aerospace companies, EV companies, drone companies, aviation technology companies, and investment partners.

If a company wants to manufacture this drone technology, Bird Renewables can provide the following under a proper agreement:

- Concept drawings
- Manufacturing setup ideas
- Body design concept
- Propeller and motor placement ideas
- Circuit and dashboard integration concept
- Safety management system concept
- Factory assembly process
- Testing process idea
- Prototype development support
- Final copy development guidance
- Technology licensing support

All information will be shared only after proper agreement, confidentiality, payment terms, and licensing conditions.

Government Formalities & Approval Requirement

Because this project involves passenger-carrying aerial mobility, all development and operation must follow applicable Government rules and approvals.

Required formalities may include:

- DGCA approval
- Type certification
- UIN registration where applicable
- Digital Sky platform compliance
- Airspace permission
- Green / Yellow / Red zone compliance
- Remote pilot or certified operator requirement
- Safety testing and airworthiness validation
- Insurance and tracking requirements
- Geo-fencing and real-time monitoring
- Emergency landing and anti-collision systems
- Factory and product approval requirements
- Any additional Government rules applicable at the time of manufacturing and operation

Bird Renewables will follow Government rules, aviation safety procedures, and certification requirements before any commercial launch.

Project Status

The Bird Renewables **Car Drone / Passenger Drone Manufacturing Factory building work is currently going on**. The project is being developed as an advanced R&D and manufacturing concept. The company's main focus remains green fuel, hydrogen technology, HHO electrolyser innovation, electrical energy, and future clean mobility systems.

The drone project is a future dream project under advanced mobility innovation and is available for licensing, manufacturing collaboration, investment discussion, and technology development partnership.

Website Tagline

Bird Renewables Air-Only Passenger Drone – Future Green Aerial Mobility Manufacturing Concept

Short Website Description

Bird Renewables is developing an air-only passenger drone manufacturing and licensing concept with lightweight body design, advanced propeller motor arrangement, circuit and dashboard integration, autopilot/manual/remote operation modes, safety monitoring, map-based tracking, and complete factory assembly setup ideas. The project is open for licensing and manufacturing collaboration with large companies, subject to agreement and Government approvals.