

Electric Vertical Take-off and Landing Aircraft

July 22, 2026 • vajiramandravi.com



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Electric Vertical Take-off and Landing Aircraft Latest News

Recently, an IIT Madras-incubated startup launched India's first electric vertical take-off and landing (eVTOL) aircraft prototype.

About Electric Vertical Take-off and Landing Aircraft

- It is a battery-powered aircraft that **can take off and land vertically** like a helicopter before transitioning to forward flight like a conventional airplane.
- An eVTOLs **does not require long runways**.
- It is a **low-altitude urban air mobility aircraft** capable of carrying only a few passengers- six seaters and eight seaters.
- **Features**
 - Most designs use **multiple electrically powered propellers** instead of a single large rotor, allowing them to lift off from relatively small spaces.
 - eVTOL aircraft use **multiple electric motors** and propellers powered by batteries.

- **Technology used**

- Most eVTOLs use **distributed electric propulsion technology** which means integrating a complex propulsion system with the airframe.
- There are **multiple motors for various functions**; to increase efficiency; and to also ensure safety.

- **Applications:** Air Taxi, Delivery, Medical assistance (EMS), Cargo Transport, Recreation.

Source: BS

Source: <https://vajiramandravi.com/current-affairs/evtol/>

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