Electric Vertical Take-off and Landing Aircraft

Source: DTE

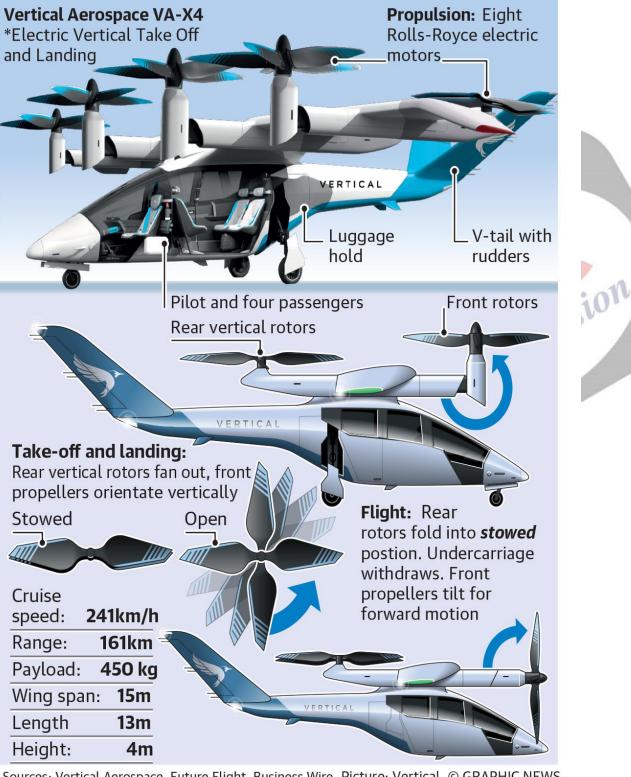
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The emergence of <u>electric vertical takeoff and landing (eVTOL) aircraft</u> has captured the attention of innovators, urban planners, and commuters.

- eVTOL aircraft are a subset of VTOL aircraft that use electric power to hover, take off, and land vertically. Unlike traditional aircraft, eVTOL aircrafts do not require runways, making them ideal for urban environments where space is limited.
- eVTOL technology provides solutions for daily commuting, cargo delivery, and emergency services, with reduced maintenance and operating expenses. It has the potential to be used for premium and emergency services in crowded urban areas.
 - It can eliminate the need for elaborate infrastructure like helipads, and can operate at speeds of up to 200 km/h.
- Indian Innovations: Indian Institute of Technology, Madras-incubated ePlane Company plans to launch e-flying taxis in Bengaluru, awaiting <u>Directorate General of Civil Aviation (DGCA)</u> approval.
 - While global advancements in eVTOL are promising, India lacks clear policies. Route planning, collaboration, and air traffic control are essential for effective integration.

What are electric aircraft?

The Union Aviation Minister while speaking at the seventh edition of the India Ideas Conclave in Bengaluru, stated that India is in 'conversation' with a number of eVTOL producers. But how are Electric Vertical Take off and Landing aircraft structured? And what are they capable of ?



Sources: Vertical Aerospace, Future Flight, Business Wire Picture: Vertical © GRAPHIC NEWS

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