Electric Vertical Take-off and Landing Aircraft

Source: DTE

The emergence of electric vertical takeoff and landing (eVTOL) aircraft 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 Directorate General of Civil Aviation (DGCA) **approval.**
    - While global advancements in eVTOL are promising, **India lacks clear policies. Route planning, collaboration, and air traffic control** are essential for effective integration.

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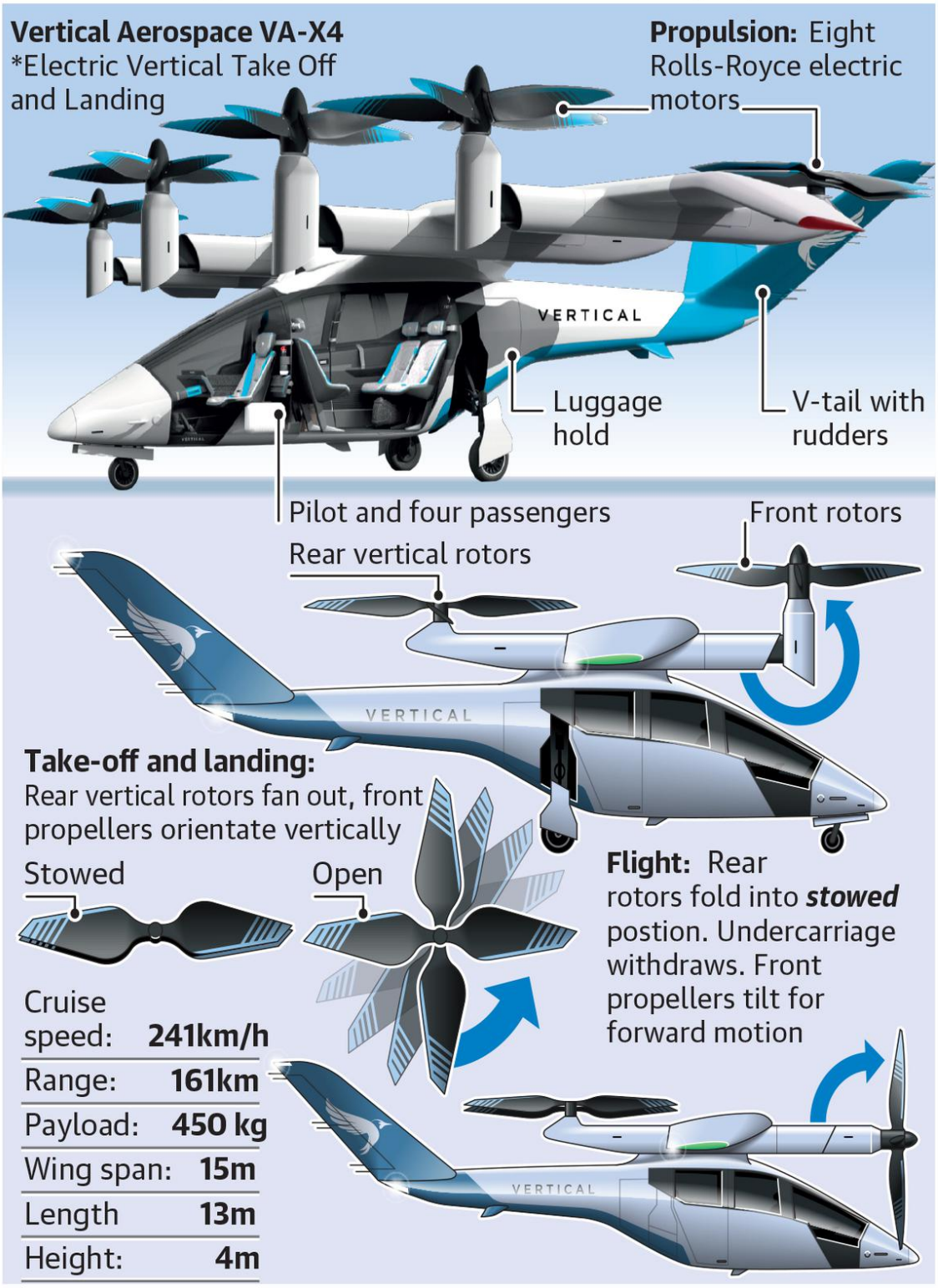
What are electric aircraft?

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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