

Battery-powered helicopters are becoming a reality. Is your next fleet airborne?

Explore what battery-powered helicopters or electric vertical take-off and landing (eVTOL) aircraft are, what they can do, and how fleet management components and advanced cellular connectivity can be used to ensure eVTOL aircraft and IoT deployments are taken to the skies with safety and efficiency at the forefront.

What are eVTOL aircrafts?

eVTOL stands for electronic vertical take-off and landing, which essentially means that this kind of aircraft doesn't need a runway to fly off and land.¹ eVTOL aircraft are viewed as an innovative alternative that can help improve current transportation systems, especially in densely populated cities where transportation challenges are pervasive.²

The benefits of sustainable aviation



Reduced noise levels

eVTOL aircraft make less noise because they use wing-borne lift and have a lower rotor speed.



Improved safety

Multiple rotors ensure that if one fails, there will be others to back it up.



Ease of use

A computerized flight control system powers eVTOL aircraft, allowing them to be operated much like a drone or a fly-by-wire system.³

eVTOL aircraft use cases⁴

Healthcare

eVTOL aircraft can be used to deliver medicines, medical supplies, and organs efficiently. eVTOLs can also be used to provide critical support to emergency responders during times of crisis.



Urban transport

Air taxi services can help decongest traffic in cities and major highways. Air taxis can also reduce travel times and enhance the passenger experience.

Remote locations

eVTOL aircraft can be deployed to provide crucial services to remote and far-flung locations and improve supply chains and logistics networks.

What is a fleet management system?

A fleet management system comprises actions, methods, and processes that enable a fleet of five or more vehicles to run with maximum speed and cost-efficiency.

This management system, which is currently being used to manage millions of vehicles globally, allows organisations to oversee fleet-related activities and data in a single pane of glass.⁵

The benefits of using a fleet management system

According to Forbes, there are 10 major benefits to using a fleet management system:⁶

- Manage fleet remotely
- Increase vehicle lifespan
- Dispatch improvement
- Increase customer satisfaction
- Maintain communication



- Improve safety
- Reduce costs
- Optimise routes
- Offer real-time notifications
- Compile important data

Making the most of electric air taxis with fleet management systems and cellular connectivity

It's highly possible that the safe, quiet, environmentally friendly, and sustainable eVTOL aircraft are the future of aviation. And soon, they may just be transforming the way we travel and deliver services around the world.

Forward-looking organisations looking to stay ahead and make the most of advanced air mobility (AAM) will leverage eVTOL technologies and incorporate them in their businesses for efficiency and innovation.

When used in conjunction with robust cellular IoT technologies, organisations in both the private and public sectors can improve the services they provide in isolated areas, improve safety, enhance connectivity between cities and suburbs, and maintain stellar and streamlined communications.

Navigate the future of sustainable aviation with Singtel Multi-Domestic Connectivity

Singtel's Multi-Domestic Connectivity empowers businesses to launch regional IoT deployments with confidence and ease by enabling them to contract with a single mobile network operator (MNO) for multi-domestic connectivity through an embedded SIM (eSIM).

Singtel's Multi-Domestic Connectivity benefits:



Enables faster time-to-market



Prevents service provider lock-in



Ensures streamlined service delivery



Reduces connectivity management complexity

Contact us

References

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- ⁴ World Economic Forum, From air taxis to medical supplies - here are some benefits of 'advanced air mobility', 2024.
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