



H³Dynamics

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LYTE AVIATION Selects H3 DYNAMICS for Hydrogen Propulsion & Refueling of its SKYBUS eVTOL Aircraft



Caption: Hydrogen Electric 40-Seater VTOL Aircraft by LYTE Aviation, Powered and Fueled by H3 Dynamics

London & Toulouse, July 24, 2024 – [LYTE AVIATION](#) announces it has selected Toulouse-based [H3 Dynamics](#) to equip its new 40-seater VTOL aircraft with aviation-grade [hydrogen-electric fuel cell](#) propulsion systems. Furthermore, in order to secure competitive hydrogen fuel for its new hydrogen aircraft line-up, LYTE aviation is also supporting the installation of H3 Dynamics' [self-contained electrolyzer systems](#) at its airport destinations.

LYTE Aviation is pioneering the industry's first 40-seat eVTOL, a heavy-weight passenger mass transit vertical take-off and landing aircraft branded the SkyBus LA-44. Currently, LYTE is working on 19 different projects in Europe, US, Asia and Africa, and has secured [23 pre orders worth €920m](#) within the last 12 months.

LYTE is also designing a cargo variant, SkyTruck LA-44C, with a payload of 4.5 tons, as well a 19-seater version business jet, the X-Prime version. Furthermore, it has expanded its range to up to 2,000km for humanitarian aid and natural disasters use cases.

"The SkyBus and SkyTruck are ideal solutions to extend today's regional aviation to places with no runway" comments **Fresha Farzam, LYTE Aviation's Founder & CEO**. *"Unlike most eVTOLs carrying a maximum of 2 to 4 passengers, we want to move more people and more goods, with higher speed, lower-cost, frequency and flexibility."*

eVTOLs have long-suffered from limited flight times since they rely on heavy battery-packs. But new hydrogen-electric VTOLs with much longer range are on the way. US-based Joby Aviation just recently flew its 5-seater eVTOL aircraft for 523 miles on hydrogen. This is almost 6 times the range of its 150 mile battery-version, a game-changer for the eVTOL sector.

LYTE Aviation chose H3 Dynamics to equip its systems with the most proven and durable systems, backed by solid industry references such as its recent work on an [AIRBUS A330 APU fuel cell](#). With more than 15 years development of hydrogen technologies in the [aerospace and defense](#) sector, H3 Dynamics team can offer a unique safety and performance-driven expertise. It will help guide LYTE's hydrogen eVTOL design and accelerate its time to market. LYTE Aviation will be integrating H3 Dynamics' [aero-compliant fuel cell power systems](#), in a design capable of working alongside tilt-wing and tilt-engine movements.

Moreover, H3 Dynamics will work with LYTE Aviation to ensure hydrogen is available for its aircraft regardless of the location. The company now supplies a range of [self-contained hydrogen electrolyzer systems](#) capable of producing green hydrogen on demand. *"As we are already in close collaboration with airports in Europe and the US, and we need to make sure that our customers can benefit from efficient and easily available hydrogen infrastructure solutions."* added **Ms Farzam**.

"Given the progress achieved by H3 Dynamics and by the broader ecosystem, we believe now is the time to begin transitioning eVTOLs from batteries to hydrogen. We are proud to be partnering with LYTE Aviation to move the world another step forward", **said Taras Wankewycz, Founder and CEO of H3 Dynamics Group**.

About H3 Dynamics www.h3dynamics.com

H3 Dynamics is accelerating the world's transition to zero-emission aviation by bridging the gap between hydrogen technologies and aerospace requirements. The company is an active contributor at EUROCAE Working Group 80 and Alliance for Zero Emission Aviation Working Group-4 in Brussels, as well as drafting fuel cell certification strategy for both EASA and FAA. From its locations in Toulouse, Austin, and Singapore, the company offers a broad range of leading-edge upstream and downstream hydrogen solutions to a diverse range of OEM, Airports, and enterprise clients worldwide – from light aviation to CS25, as well as for e-VTOL, Airships and Unmanned System integration. The company is a recipient of the [Monaco Hydrogen Prize 2023 in partnership with NEOM ENOWA](#), member of the Paris Air Mobility Alliance, and Aerospace Valley in Toulouse.

About LYTE Aviation www.lyteaviation.com

LYTE Aviation is pioneering the first 40seater hybrid-hydrogen eVTOL, a point to point mass transit solution with a range of up to 1000km. With its tandem tilt-wing technology, LYTE powers their tandem tilt wings with hybrid-hydrogen-electric power output, a combination of turboprops and electric engines. The SkyBus and its cargo variant, the SkyTruck, are both ideal solutions to extend current ferry transport solutions on waterways, like e.g. in the APAC region or the US, or to extend regional aviation with new routes for passenger mass and cargo transit, without requiring a runway anymore. LYTE's vision is "Moving more people and more goods, with higher speed, frequency and flexibility, from point to point."

Owing to the use of proven and existing technologies available today, LYTE Aviation is estimating entering the market within five to six years.