

Environmental Panel

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pose new challenges for cities ...

of world's population ~70% will live in cities by 20501

of global CO₂ emissions ~20% result from the transportation sector²

of global CO2 emissions ~3% result from the aviation sector3

... and calls for **ELECTRIC AIR MOBILITY**



No NO_x

No m² Except vertiports, no valuable ground space is necessary for network operations

No harmful fine particulate matter or nitrogen dioxide emitted during flight

No CO₂ No emissions emitted during flight

1. UN 2. IEA 2022 3. Deloitte

ICA0





DRIVING MULTIPLE EFFORTS TO DECARBONIZE AVIATION

Sustanability is at the core of our mission at Volocopter



Fully electric

The VoloCity's 18 motors are powered by nine rechargeable batteries, which means it produces no direct emissions during operation.



Low noise impact

Due to electric motors and design, the VoloCity contributes to significantly lower noise levels, i.e. 65 decibels at a 120m distance, making it inaudible within a city environment.



Highest safety

The VoloCity's design adheres to highest level of safety, with the likelihood of a catastrophic failure being less than one in one billion flight hours.

ENSURING A SUSTAINABLE ECOSYSTEM THROUGH THE DEVELOPMENT OF REGULATORY FRAMEWORK

AIRCRAFT CERTIFICATION

- Certification specifications for eVTOLs, i.e., EASA SC VTOL and MOC.
- Standards development for eVTOLs, such as EUROCAE.
- Noise levels and measurement procedures for VTOLs, i.e., EPTS.

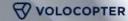
OPERATIONAL FRAMEWORK

- Rules enabling eVTOL operations, i.e., Part-IAM.
- Training and licensing of eVTOLs personnel, i.e., pilots, maintenance staff.

INTERNATIONAL HARMONIZATION

- Close collaboration with global regulators.
- Enabling international validations.
- Common industry positions e.g., GAMA paper on Battery Range and Endurance; Interoperability of charging infrastructure.

SC VTOL - Special Condition VTOL MOC - Means of Compliance EPTS - Environmental Protection Technical Specifications Part-IBM - Part-Innovative Air Mobility CAMA - General Avaition Manufacturers Association



- AAM enables a safe and sustainable mode of transport, and fosters technological advancements and innovations in the field of air mobility.
- Initial adoption of any new technology faces certain resistance. We can only fully benefit from AAM when we ensure societal trust and acceptance.
- As an OEM, through public demonstrations and product certification, we need to show to the public how safe, sustainable and quiet our aircraft are.
- We need concerted efforts from regulators, government and cities, to boost the creation of the AAM ecosystem and create better awareness about the benefits of introducing sustainable aircraft into the airspace.

THANK YOU







AAM 2024 ICAO'S FIRST ADVANCED AIR MOBILITY SYMPOSIUM



