

Advanced Aircraft Technologies

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Middle Mile Small and Regional all-electric propeller aircraft (5-50 pax)

Technology

Electric propulsion systems (including motors and power electronics) designed for commercial aircraft. 280KW – 2MW. Multiple sources of electricity.













CO₂ reductions per flight

100%



Level of finance required

-50%



Timeframe

2022



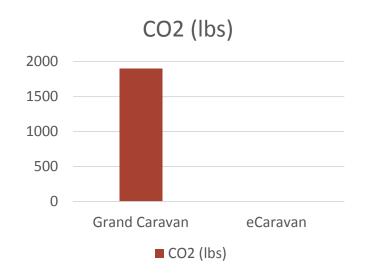
Main challenges

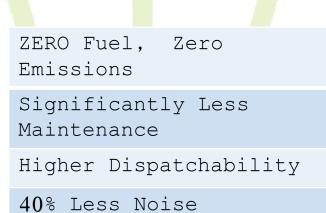
Mindset

O STOCKTAKING 2020

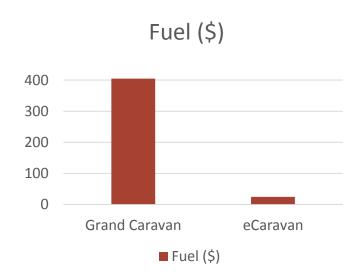
Actual Aircraft Data

1.5-hour Cessna Grand Caravan vs. eCaravan











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ICAO

Global Scheduled Airline Flight Ranges

OAG Data

Flight Range (miles)	Total Flights	% of Total Flights
0 to 99	1.8 million	5%
100 to 200	3.5 million	9%
201 to 300	4.6 million	12%
301 to 500	7.4 million	19%
501 to 700	5.5 million	14%
701 to 1,000	5.9 million	15%
1,001+ miles	9.7 million	25%
TOTAL	38.7 million	









Changing Our View of Air Transportation

True Point-to-Point: Connecting Communities with Smaller Airports / Smaller Aircraft

Fit equipment to mission: Size, efficiency, noise, emissions

Ultra long range; long range; medium range: SAF, Engine Improvements, etc.

Short range; ultra short range: Electric (Battery, Hudrogen) and Electric-Hybrid

Multi-fleet multi-model solutions

Optimizing for emissions AND cost?



Clean

magniX electric aircraft propulsion systems make less noise, burn no fuel and create zero carbon emissions



Low Cost

electric aircraft do not need fuel and require less maintenance, making them up to 80% lower-cost to fly per hour



Accessible

operators can justify offering many more short distance flights - on a wider network of routes, at lower prices and on-demand