

## Electric Flight Potential And Limitations

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Electric Flight - Potential and Limitations. During the last years, the development of electric propulsion systems is pushed strongly, most notably for automotive applications. For ground based transportation, the system mass is relevant, but of relatively low importance.

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Conclusions: Electric propulsion systems with batteries are possible for small aircraft, The range is strongly limited, but useable for General Aviation and UAVs, For larger aircraft the battery technology must be drastically improved to at least 1000 Wh/kg (factor 5), This seems to be unlikely within the next 10 years, but may be within 20-40 years.

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Electric Flight - Potential and Limitations Hepperle, Martin (2012) Electric Flight - Potential and Limitations. Energy Efficient Technologies and Concepts of Operation, 22-24 October 2012, Lisbon, Portugal. PDF (Portable Document Format) 1MB ...

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