

## Electric Flight Potential And Limitations

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Electric Flight - Potential and Limitations STO-MP-AVT-209 9 - 7 UNCLASSIFIED UNCLASSIFIED 3.2.4 Energy Storage The energy required for a flight must be stored on-board. For application in aircraft the most important parameters are the energy per mass E\* and to a lesser extent the energy per volume V\*. These specific

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Electric propulsion systems offer high efficiencies. Electric propulsion systems are in situ "zero-emission". Specifics of air transport: Aircraft are already very efficient (3-4 liter/PAX/100km). Aircraft fly over long and very long distances (1000-10000 km).

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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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Energy optimized flight: The cruise speed drops due to higher wing span below 300 km/h (The turboprop aircraft flies at 480 km/h.) L/D = 16 27.5 The high aspect ratio requires high lift coefficients (climb: 0.9, cruise: 1.2). Consumption with a turboprop would be about 1.5 Liter/PAX/100km

**Electric Flight - Potential and Limitations**  
Get Free Electric Flight Potential And Limitationsthe most important parameters are the energy per mass E\* and to a lesser extent the energy per volume V\*. These specific Electric Flight - Potential and Limitations Electric Flight - Potential and Limitations. During the last years, the development of electric propulsion systems is pushed ...

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UNCLASSIFIED Electric Flight - Potential and Limitations 9 - 30 STO-MP-AVT-209 UNCLASSIFIED Cruise Segment: Altitude H = 3000.0 ... 3000.0 m Time t = 0.4 h Distance R = 125.0 km Speed avg v = 290.3 km/h (mean) Speed avg M = 0.2 (mean) Energy E = 493.87 kWh (from battery) Power, a/c P = 775.53 kW (mean, for aircraft) Thrust, a/c T = 9638.7 N (mean, for aircraft) CL avg CL = 1.0 (mean) CD avg CD = 0.061 (mean) L/D avg L/D = 16.2 (mean) eta prop avg eta p = 79.26 % (mean) eta total avg eta t ...

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Electric Flight - Potential and Limitations . By Martin Hepperle. Get PDF (1 MB) Abstract. 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 ...

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**Electric Flight Potential And Limitations**  
Electric Flight - Potential and Limitations Martin Hepperle German Aerospace Center Institute of Aerodynamics and Flow Technology Lilienthalplatz 7, D-38108 Braunschweig, Germany Martin.Hepperle@dlr.de ABSTRACT During the last years, the development of electric propulsion systems is

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