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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

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extent the energy per volume  $V^*$ .

These specific

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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.

~~Electric Flight Potential and Limitations~~

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

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## ~~Electric Flight – Potential and Limitations~~

Electric propulsion systems can be zero-emission in situ. Specifics of air transport: Aircraft are already quite efficient (3-4 Liters/PAX/100km).

Aircraft usually operate on long distances (1000-10000 km). Mass is much more important than in ground transportation.

## ~~Electric Flight – Potential and Limitations~~

UNCLASSIFIED Electric Flight – Potential and Limitations Kerosene, AVGAS Can be stored in wing and fuselage tanks. These are often part of the structure and therefore of low mass. Hydrogen (gas) Requires high pressure tanks (typically 350 to 700

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bars). Tanks are much heavier than the actual fuel and are also a safety risk.

## ~~Electric flight - Potential and Limitations (2012)~~

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 relatively low importance.

## ~~Electric Flight - Potential and Limitations - CORE~~

They may be toxic, rupture easily, short-circuit, catch fire and are expensive. These were the main

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significant disadvantages for an electric airplane. Can this be avoided? The disadvantages in an electric plane can be avoided by using some new techniques.

~~The Good, the Bad and the Ugly about electric aviation~~

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