

# First flight energy storage machine

How long was the first flight with electric motor?

21. October 1973: worldwide first flight with electric motor, Motor by Bosch (13 PS @2400 1/min). Today, 40 years later, using commercially available battery systems, the flight time could be extended to 2.5 hours. Return to the Future with Whole Milk?

What is the world record for electric aircraft?

Before the Spirit of Innovation, the only world record ratified by FAI for this category of aircraft, electric powered aircraft with take-off weight between 1000 and 1750 kg, was 'speed over a 3 km course'. The record was set in 2017 by Walter Kampsman on the all-electric Extra 330LE with a speed of 342.86 km/h.

How will NASA's electrified aircraft propulsion technology help solve the toughest questions?

From high-efficiency electric motors to lightweight materials and revolutionary superconducting technologies, NASA's electrified aircraft propulsion developments are helping answer some of the toughest questions when it comes to aviation electrification.

What was done to improve the safety of electric aircraft?

In line with the intention of prioritising safety, a full Safety Assessment was conducted, regular safety review boards took place, a hazard log system was put in place, lessons learnt from other electric aircraft incidents were studied and implemented, and, most of all, great emphasis was given to testing.

What type of motor was used in the first flight?

21. October 1973: worldwide first flight with electric motor, Motor by Bosch (13 PS @2400 1/min). alternative: Gas (e.g. H<sub>2</sub>). RPM adaption as needed by a gearbox. Fuel is burnt, mass reduces with flight time. There are many possibilities. Mainly two types of interest. variable mass. constant mass.

Why is battery-powered flight important?

The interest in battery-powered flight is driven by the possibility that advanced batteries may enable advances such as improved aircraft economics, new aircraft utility such as flying taxis, or, perhaps most importantly, reduce the impact of aviation on climate change by reducing carbon emissions.



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