

DGLR in cooperation with the RAeS, HAW Hamburg, ZAL and VDI invites to a lecture



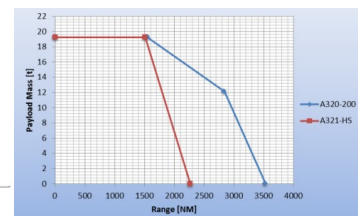
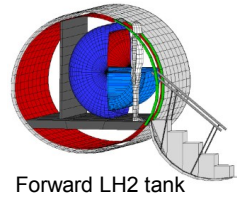
SONDERVORTRAG zum 50. Geburtstag der DGLR Bezirksgruppe Hamburg:

Design of Hydrogen Passenger Aircraft – How much 'Zero-Emission' is Possible?

Prof. Dr.-Ing. Dieter Scholz, MSME, HAW Hamburg

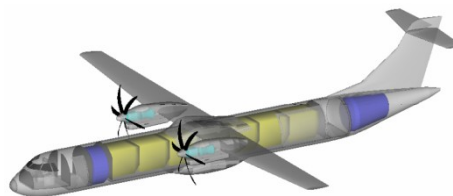
Date: Thursday, 19 November 2020, 18:00

Online: <http://purl.org/ProfScholz/zoom/2020-11-19>

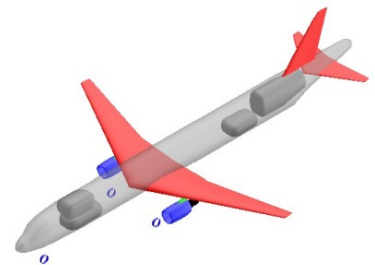


"Zero-emission" is not possible! Hydrogen combustion emits 2.6 times more water per energy than kerosene. This leads to contrails forming already at lower altitudes and hence more often. Hydrogen is an energy carrier that is responsible for as much CO₂ as its production has emitted. It is not only about emissions, it is also about depletion of resources and primary energy consumption. A Life Cycle Analysis (LCA) sums it up. Nevertheless, **hydrogen has a potential in aviation!**

Hydrogen aircraft design research from HAW Hamburg since 2006 is presented



ATR 72 LH2 freighter



A321 stretch with LH2 tanks