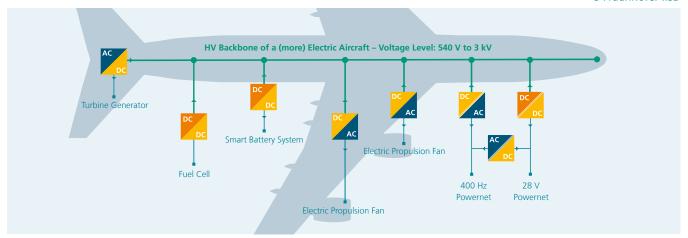


## © Fraunhofer IISB



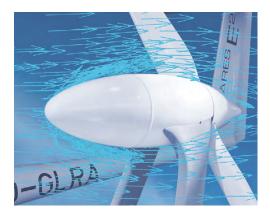
## **Project Examples**

Recent project examples illustrate the technical possibilities of the latest IISB developments. The novel WBG semiconductors with their reduced losses together with advanced low-inductive system designs enable power densities far beyond state-of-theart, paving the way towards more- and all-electric aircrafts.

We will gladly provide you with further and detailed information upon request. You are more than welcome to contact us for a technical discussion about your specific application.



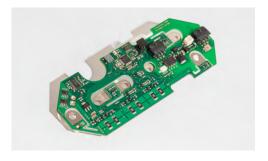
60 kW SiC-based drive inverter powerstage for high-speed drives with volumetric power density of 160 kW/l © Thomas Richter / Fraunhofer IISB



15 kW aviation 6-phase motor drive inverter with passive laminar flow air cooling and fail operation capabilities weight 1.5 kg © Florian Hilpert / Fraunhofer IISB



11.2 kW insulating HV/LV DC/DC converter for aircraft applications with galvanic isolation - weight less than 6 kg © Elisabeth Iglhaut / Fraunhofer IISB



Battery monitoring circuit (UTM4) designed for certificate of airworthiness from the European Aviation Safety Agency (EASA) © Thomas Richter / Fraunhofer IISB

## Contact

Christian Bentheimer **Group Manager Aviation Electronics** Tel. +49 9131 761-634 christian.bentheimer@iisb.fraunhofer.de

Fraunhofer IISB Schottkystrasse 10 91058 Erlangen, Germany www.iisb.fraunhofer.de