Building the foundation for a cleaner future: Wright has demonstrated next-generation inverter technology for transport-category zero-emissions aircraft

ALBANY, NY, May 5, 2021 — Wright Electric, Inc., a world leader in zero-emissions commercial aviation, announced today that the company has delivered another key building block towards development and certification of the first commercially viable, zero-emissions single-aisle aircraft.

Whether a future airplane is battery-electric or powered by a hydrogen fuel cell, an inverter is a key component in high voltage aircraft electric systems. Their purpose is to convert the DC power from batteries to the AC power required by the propulsion system's electric motors. "The level of performance demonstrated with our new inverter will become the baseline for any new electric aircraft and is a key technology in our megawatt system," said Jeff Engler, CEO of Wright. Designed to be scalable from 500 kw to 20 MW systems, the Wright inverter targets the following levels of performance:

- **99.5% efficiency** - a 6x improvement in heat loss over current in-production aviation inverters resulting in significantly lower thermal management loads.
- **30 kw/kg power density** - in contrast, today's technology delivers 10-20 kw/kg. On a standard single-aisle aircraft, this would result in a weight savings equivalent to adding an extra 5-10 passengers per flight.

"In January 2020, we announced the start of our megawatt scale electric motor program for a single-aisle commercial airliner. Over the coming months, Wright will be making additional announcements regarding the progress of our integrated propulsion system," Engler said. "Zero-emissions commercial aircraft are the future, and Wright is focused on delivering on the promise."

The inverter now proceeds to the next phase of development including integration with an in-house developed 2 MW motor, high altitude chamber testing, and qualification for flight readiness.

For additional information about Wright, please visit weflywright.com.

About Wright Electric

Wright Electric, Inc. (Wright) is a U.S.-based company developing the world's first zero-emissions commercial aircraft. The company was founded in 2016 by a team of aerospace engineers, powertrain experts, and battery chemists. By focusing its resources on the technological and component challenges to electrification, Wright Electric is establishing the path towards a carbon-free aviation footprint. Wright's flagship airplane under development is the Wright 1, a 186-seat airliner with an 800-mile range, targeting entry into service in 2030. Wright works with airlines such as easyJet and VivaAerobus, and has development contracts with NASA and the U.S. Department of Energy's ARPA-E. Wright has been funded through Y Combinator, the Clean Energy Trust, venture funds, and family offices.