



Dovetail Electric Aviation

AIR Pass case study: Accelerating success for aerospace ventures.

Dovetail Electric Aviation is an Australian startup developing and integrating electric powertrains for small turboprop powered general aviation aircraft. This technology is a key part of the aviation industry's drive to decarbonise by 2050.

The AIR Pass project's goal was to develop and demonstrate an aircraft Electric Power System (EPS) and suitable test bed infrastructure. A key deliverable was the installation of the EPS onto the test stand infrastructure and testing of the EPS prior to the 2023 Avalon Airshow, a key commercial and media event in the Australian aerospace industry.

Through the AIR Pass program, AIR Hub experts assisted in the design, manufacture, and delivery of the EPS test rig, in a sprint development of four-months leading up to the Avalon Airshow. The EPS and test stand infrastructure were successfully delivered to Dovetail for a commercial demonstration test prior to the Airshow.

"Leveraging our expertise and capabilities on this AIR Pass project to collaborate with Dovetail, a leader in clean aviation development, has been truly impactful in supporting the aviation industry transition to net zero," said Dr Adriano Di Pietro, Director of the AIR Hub.

The successful commercial demonstration was a key business milestone for the company, proving Dovetail's commitment and ability to work with partners to deliver its technology roadmap

for investors. As a result of hitting this aggressive milestone and demonstrating significant technical progression, Dovetail has been able to raise additional capital and progress its technical program.

"Achieving the EPS test prior to the airshow was an essential part of Dovetail's development and commercial strategy, and the support from the AIR Pass program was instrumental in achieving this. It required a huge effort from both teams to achieve this goal, but through collaboration with the AIR Hub we were able to reach a major goal we would not otherwise have been able to," said David Doral, Founder and CEO of Dovetail.

Dovetail is one of Australia's leading companies working towards net-zero aviation. The AIR Pass program was able to accelerate its development and help the company achieve its goal of accelerating decarbonisation in the aviation sector. The AIR Hub is proud to have supported Dovetail on its technology development.

For more information, and to discuss the AIR Pass program, please email airpass@swinburne.edu.au.

swinburne.edu.au/airhub