



InfinitusAero
Zero Emissions. Zero Boundaries.



INTRODUCING THE

E22 SPARK

Australia's first electric light sport aircraft, purpose-built for flight training.

Our story

Infinitus Aero is an Australian aviation business commercially producing Australia's first electric light sport aircraft, the E22 Spark, for the flight training market. Infinitus Aero is revolutionising the way pilots learn and continue to fly, leading the way in sustainable, affordable and zero-emission light aircraft.

The business has secured access to leading-edge battery technology on the global market and has partnered with an Australian battery integrator to configure the E22 Spark for first flight. We are getting ready to take to the skies, with zero emissions, zero boundaries. Join us as we embark on an exciting journey.

Our mission

Infinitus Aero is committed to creating zero-emission fixed-wing aircraft that will have a planet-positive impact on the environment and provide an affordable eco-alternative to existing aircraft. Our innovative flight technology platforms have helped us find astute ways of using globally emerging technology that will help build a cleaner aviation industry for everyone, everywhere.



THE AIRCRAFT

Leading performance



180 m

TAKE-OFF DISTANCE



300+ km

MAXIMUM RANGE



80–120 kts

CRUISE SPEED



600 kg

MAX TAKE-OFF WEIGHT



100+ kW

ELECTRIC MOTOR



2 hours*

INCLUDING RESERVE

Rapid turnaround

Quick-charge capability with leading-edge battery technology.

Enhanced safety

Optional ballistic parachute rescue system and airbags.

Industry-leading avionics

Full glass cockpit and ergonomic controls reduce pilot workload.

Powerful and reliable

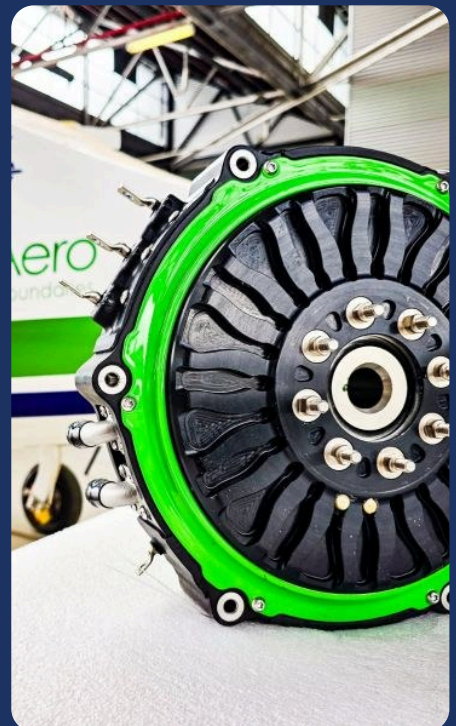
100+ kW Australian-made motors with stackable options for redundancy.

Extended range

2 hours including reserve* (pilot + passenger).

Effortless maintenance

Modular motor and battery configurations allow rapid changeout of key components.



* Indicative — Subject to flight test program.

All specifications are preliminary and are subject to change during the prototyping phase.

Powered by Amprius

The E22 Spark is powered by silicon-anode lithium-ion cells from Amprius Technologies, a specialist in high-energy battery cells for aviation. Replacing the conventional graphite anode with silicon allows each cell to store far more energy for its weight, which is critical in an aircraft where every kilogram counts.

The result is a battery system that delivers more endurance, faster turnarounds and a longer service life, helping flight schools keep aircraft in the air and lower the cost of every training hour.



450 Wh/kg

HIGHEST ENERGY DENSITY

Up to 450 Wh/kg — more endurance and payload margin from every kilogram of battery.



High power

HIGH DISCHARGE RATE

Rapid, high-power output for take-off and climb without compromising efficiency.



0–80% in 6 min

ULTRA-FAST CHARGING

Cell-level charge in as little as six minutes — shorter turnarounds between training circuits.



1,300 cycles

LONG CYCLE LIFE

Performance maintained through 1,300 full charge cycles — lower battery cost per flight hour.



–30°C to 60°C

WIDE OPERATING TEMPERATURE

Consistent power delivery across Australia's full range of operating climates.



UN38.3

SAFETY AND RELIABILITY

Passed the U.S. military nail-penetration test and UN38.3 certification for safe lithium-ion transport.

WHY IT MATTERS

More flying per charge, faster turnarounds and longer pack life — a lower cost per training hour.

INSIDE THE E22 SPARK

Attainable luxury



The E22 Spark boasts a 49" wide cabin and beautifully appointed leather seats, making the aircraft a dream to train or tour in.

The E22 is equipped with a full suite of immersive avionics, allowing the pilot to stay ahead of the aircraft at all times, significantly reducing pilot workload.

With an ergonomic centre stick and electronic power lever, the aircraft promises a responsive and intuitive flying experience.

Depending on mission requirements, the E22 may be flown in a configuration for flight training or touring (pilot and passenger), or in an extended-range ferry mode (single pilot with an additional battery).



Environmental & social governance

At Infinitus Aero, we promote environmental sustainability and social responsibility in all aspects of our business. We recognise that the aviation industry has a significant impact on the environment, and we are reducing our carbon footprint through the development and production of electric aircraft.

We create innovative solutions that enable a more sustainable future for aviation, while also addressing the needs of our customers and stakeholders. Our products are energy efficient, produce zero emissions and reduce noise pollution.

We are also committed to social responsibility and ethical business practices. We prioritise the safety and well-being of our employees and strive to create a diverse and inclusive workplace. We engage in fair labour practices and ensure that our suppliers meet our standards for responsible sourcing.

Finally, we are dedicated to transparency and accountability. We regularly monitor and assess our environmental and social impact, and continually improve our performance. We also engage with our stakeholders, including customers, investors and the broader community, to understand their concerns and incorporate them into our decision-making.

At Infinitus Aero, we maintain that sustainable and responsible business practices are not only necessary for the health of our planet and society, but also essential for the long-term success of our company.

Our vision is for zero emissions, zero boundaries.



WHY IT MATTERS

The impact of electric aircraft

If 1% of the training fleet were powered by electricity, in a single year we could offset

58,000

TONNES OF CO₂E EMISSIONS

This is equivalent to the emissions produced from powering 11,285 homes for a year.



E22 Aircraft CO₂e reduction

10-YEAR FORECAST OF PILOTS REQUIRED

Airline demand	219,000
Business jet demand	45,000
Total demand	264,000

Source: CAE Pilot Demand Outlook 2020

ASSUMPTIONS

- Baseline aircraft = Cessna 172.
- Baseline aircraft hourly CO₂e emissions = 75 kg per hour.
- Flight hours per pilot = 150 (based on Part 142 integrated syllabus).
- Electric aircraft are charged utilising 100% renewable energy.

Climate impact over 10 years

PROJECTED MARKET CO₂E EMISSIONS

5.8m tonnes

Based on 10-year demand forecast

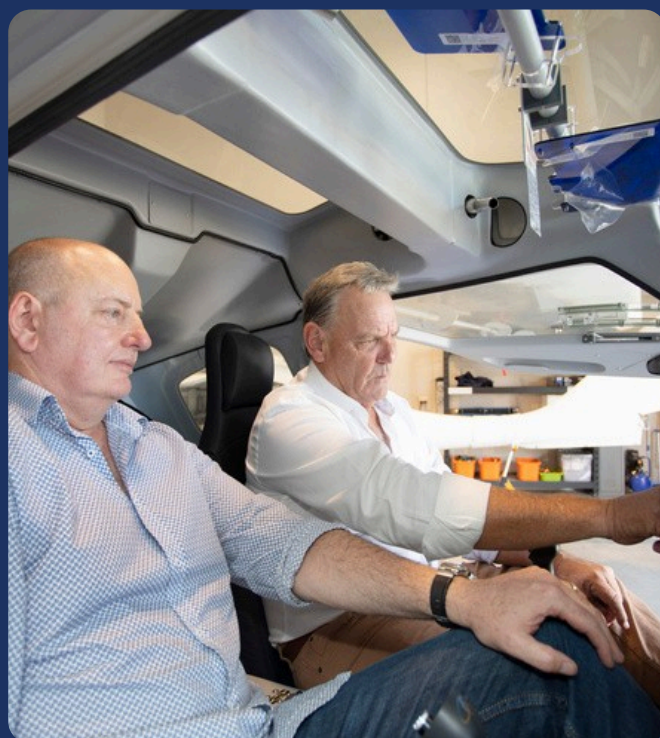
PROJECTED CO₂E EMISSIONS PER STUDENT

21.8 tonnes

Based on Part 142 integrated training syllabus

THE E22 SPARK

Designed for the future of flight training



SOME IMAGES ARE ARTIST'S RENDERS.

INFINITUS.AERO



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