

PROPULSION AND POWER ROADMAP



DRIVERS

- Reduce Cost:** reduce waste, improved manufacturing productivity and better utilisation of resources/skills
- Improve Energy Efficiency:** improved propulsive efficiency through novel architectures
- Protect the Environment:** reducing CO2, NOx, nvPM, perceived noise, material usage and waste
- Meet Operational Needs & Flexibility:** resilient and efficiently-maintainable propulsion and power systems
- Enhance Passenger Experience:** reduce in-cabin perceived noise
- Improve Safety:** damage tolerance, intrusion tolerance, predictability, quality assurance

ENVIRONMENT

- CO2** (% margin/fuel burn, 2000 baseline): 20% reduction by 2025, 25% reduction by 2035
- NOx** (% margin relative to AEP6, 2000 baseline): 55% reduction by 2025, 65% reduction by 2035
- Perceived Noise** (Propulsion, relative to Chapter 3, LR2 average): 30 EPNdB cumulative reduction by 2025, 36 EPNdB cumulative reduction by 2035

TARGET (EIS)

TECHNOLOGY PRIORITIES (TRL 6)

