

PRATT & WHITNEY UPDATE

SPEEDNEWS COMMERCIAL AVIATION SUPPLIER CONFERENCE MARCH 2, 2022

POWERING SUSTAINABLE AVIATION[™]

SMARTER. CLEANER. GREENER.

This document has been publicly released

PRATT & WHITNEY GTF 11M HOURS OF FLAWLESS GEAR SYSTEM ARCHITECTURE



> 1200 AIRCRAFT DELIVERED OVER 3 PLATFORMS



16%

75%

Reduction in Engine Fuel Consumption Reduction in Noise Footprint 50% Reduction in Regulated

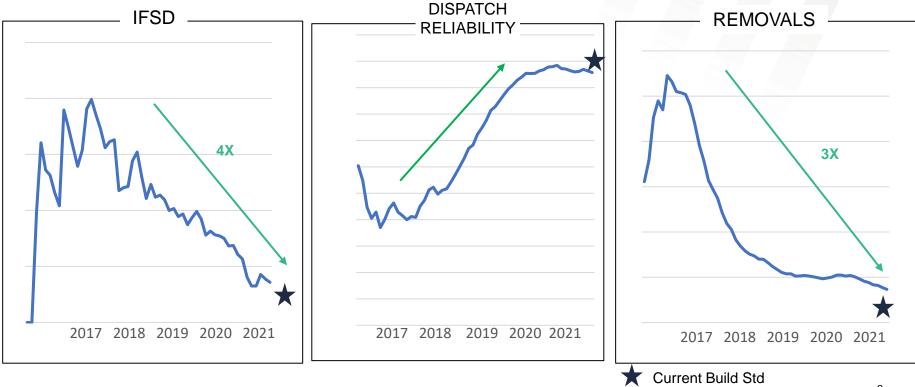
10,000+ Orders and Commitments **80+**

Customers

ANNUAL OPERATOR SAVINGS >\$1M PER AIRCRAFT

Emissions

PW1100G-JM FLEET PERFORMANCE – REACHING MATURE RELIABILITY ALL EVENTS FROM EIS



GTF ADVANTAGE ENGINE MORE CAPABILITY FOR THE A320NEO FAMILY

34K takeoff thrust most powerful engine

up to **170/0** less fuel and CO₂ vs. previous generation engines like V2500 most efficient engine, 100% SAF compatible



mature reliability

with high durability at entry into service



full intermix + interchange

maximum customer flexibility



GTF IS JUST GETTING STARTED

GEARED ARCHITECTURE IS FOUNDATIONAL FOR FUTURE TECHNOLOGIES

Sustainable Aviation Fuels

Engine Efficiency

Hybrid Electric

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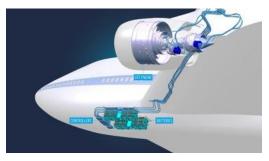
- Customer collaborations
- 100% SAF demo flights

- Advanced materials and cooling
- Higher bypass ratios



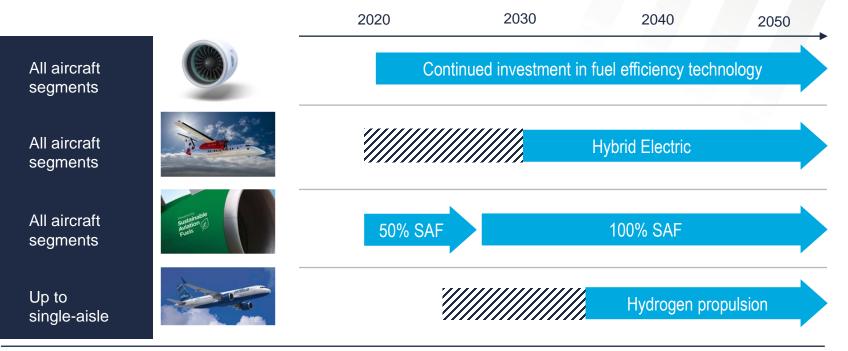


- Investing in GTF hybrid-electric systems
- Demonstrating system and component technologies in Canadian program



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PATH TO SUSTAINABLE PROPULSION DECARBONIZATION OF AVIATION LIKELY THROUGH MULTIPLE PATHWAYS





LEADING THE WAY IN NEXT-GENERATION TECHNOLOGIES

HYBRID-ELECTRIC PROPULSION TECHNOLOGY AND FLIGHT DEMONSTRATOR PROGRAM





PRATT & WHITNEY WILL BE READY FOR 100% SAF

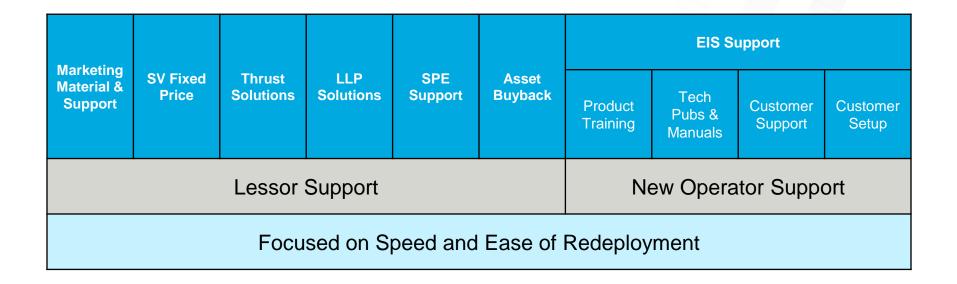
Engines currently approved for 50% SAF

P&W testing engines on alternative aviation fuels since 2005

Approved standard for 100% SAF under development



ENGINEWISE® AFTERMARKET SOLUTIONS SUPPORTING V2500 FLEET TURNKEY SOLUTION TO HELP WITH REDEPLOYMENT



FREIGHTER MARKET OPPORTUNITY V2500 BEST POSITIONED ON A320/A321

(3) V2500-powered A321F in service, more in conversion

First A320P2F certification nears – V2500 powered

V2500 offers lowest noise, fuel burn and emissions

A321P2F advantages over 737-800 Containerized cargo in lower hold 3.5 tonnes higher cargo capacity





POWERING SUSTAINABLE AVIATION"

GO BEYOND