

The regional aircraft: good neighbours

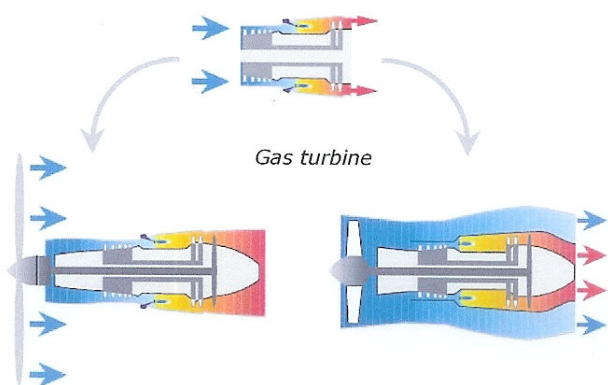
ATR: The optimum choice for a friendly environment

Regional aircraft are good neighbours for the environment.

Modern regional turboprop and namely ATR aircraft meet both external noise and gaseous emission level regulatory requirements with ample margins.

- ▶ Regional aircraft operate at relatively low altitude, leaving the ozone layer unaffected and barely contributing to pollution of the upper atmosphere.
- ▶ Turboprops are highly efficient and tend to operate at lower speeds. In recognition of their low pollutant emission levels, turboprop aircraft remain unregulated and are not covered by ICAO Annex 16. They also have low OPR (Overall Pressure Ratio), 10-20:1 as against 20-40:1 for the large turbofans, and hence produce much more lower NOx levels.
- ▶ **ATR's short field capability, their optimum integration in air traffic flow, and their cumulative noise level margins to new potential regulations or airport restrictions, make them welcome visitors at the smaller city airports and regional hubs with minimal environmental impact.**
- ▶ Both turboprop and turbofan aircraft use exactly the same jet technology maximizing efficiency and reliability.

Turboprop/Jet: The same concept

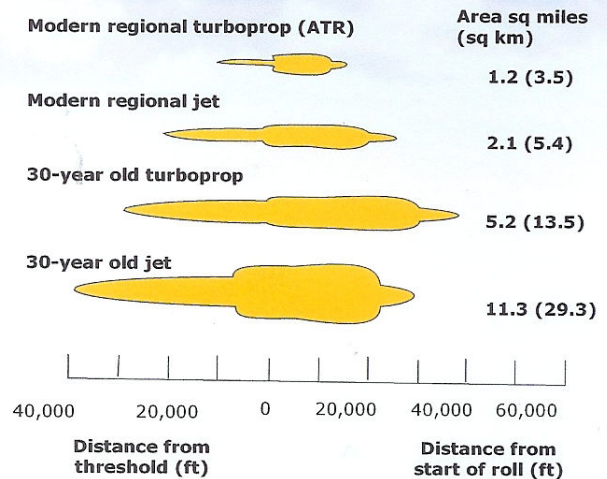


Movement comes from the large quantity of air forced backwards at low speed by the propellers

Movement mainly comes from the air forced backwards at high speed

The turboprop is more fuel efficient for a given thrust.

Comparative noise footprints - 90 EPNdB The benefits of the new technology



Thanks to the high technology 6-blade propeller system and efficient aerodynamics, the ATR -500 series is one of the quietest in the industry.



ATR: The optimum choice for a friendly environment.

ATR turboprop aircraft, recognized as the most fuel efficient aircraft in their category, maintain distinctive advantages with respect to other modes of transport such as road and rail, also in terms of pollutant emissions

Turboprop aircraft and ATR in particular can justify their view that they are already respecters of the environment and good neighbours for airlines and airport communities.

ATR stands out as a modern, comfortable and cost saving regional turboprop with the particular ecological advantage of safeguarding the environment.