

The ATR -600 Series The most ECONOMICAL LOGICAL way to fly short-haul connections

Low Fuel Consumption

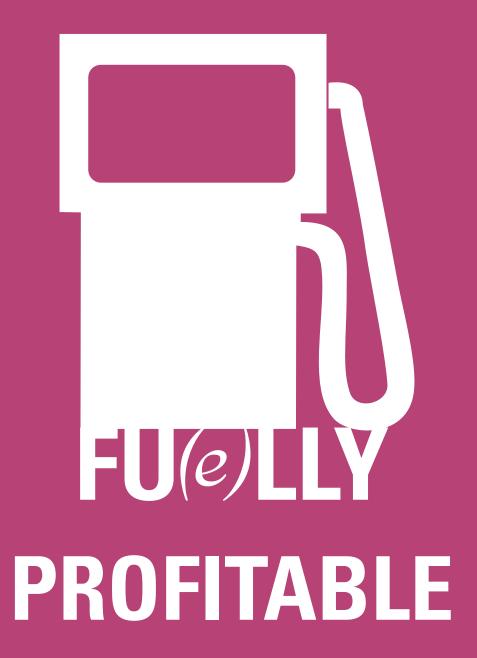
Low Noise COST





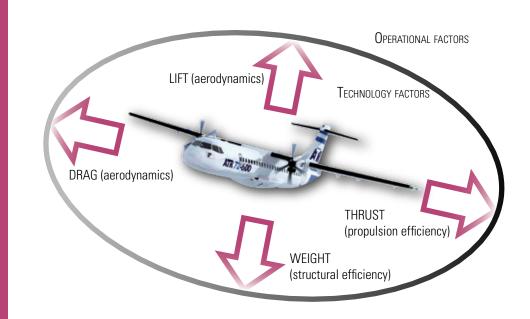
Being a small part of a serious problem, there is still a serious challenge to do even better»

IATA's Vision Giovanni Bisignani Director General & CEO





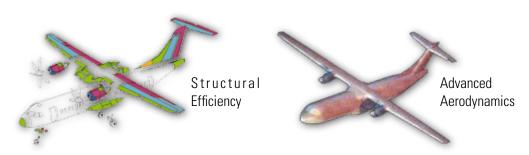
ATR, Designed for Economics



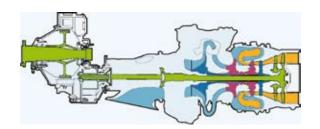
Technology to reduce fuel consumption

The highest **composite**utilisation in a regional
aircraft >>

Light structure >> Low fuel consumption leading to low weight-related charges



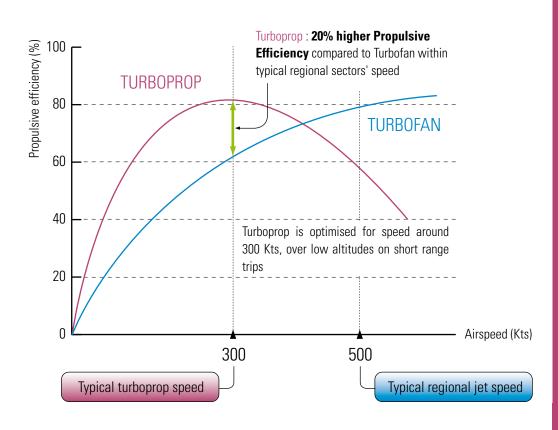
Best trade-off between fuel burn and speed



High tech engines and propellers, advanced aerodynamics, low drag airframe, structural efficiency and the resulting level of fuel savings have prompted many operators to select turboprops, ATR especially, above all others. The proven level of low fuel consumption is a primary concern for airlines eager to lower cash operating cost and wishing to be environmental frien-



Propulsive Efficiency





Light is beautiful!

The tangible impacts of low structural weights on :



MTOW: 23 T

MTOW: 29.5T



> + 200 Kg per trip* > + 360, 000 Kg per year per aircraft*

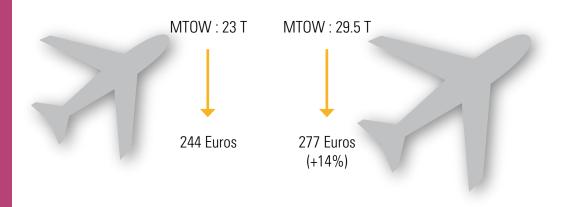


* : Quantifiable effect of Structural Efficiency on fuel consumption only

• Taxes

300 Nm sector, Germany (Eurocontrol formula)

300 Nm stage, 1,800 flights per year

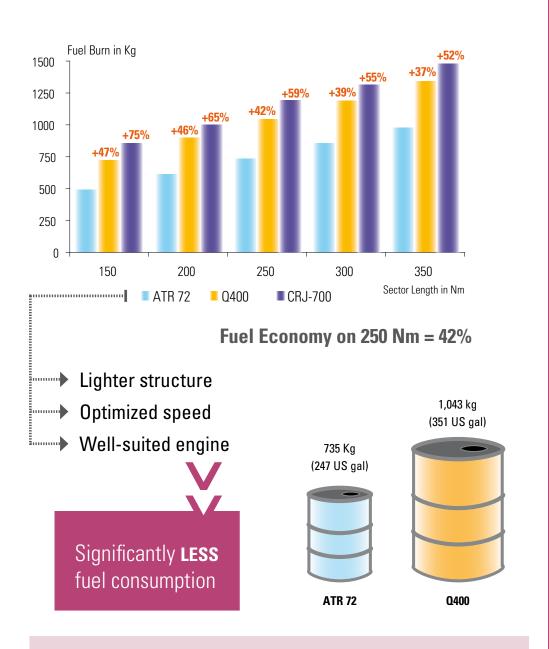


With an utilisation of 1,800 flights / year, low structural weights lead to

80,000 \$ / year / aircraft of savings on en-route charges



ATR 72: The most fuel-efficient aircraft in the regional market



Whatever your regional sector length,

>>>>> the ATR 72 is by far more fuel efficient



ATR PROPULARITY



Turboprops are the natural hedge against high fuel prices

With airlines increasingly focused on slashing operating costs and with soaring fuel prices,

the only profitable way to fly short connections is with turboprops





Aviation transports some two billion passengers annually and 40% of interregional exports of goods by value.

Air transport industry generates a total of 29 millions jobs globally.

Global aviation contributes at 2% of global CO_2 emissions and supports 8% of the world economic activity in terms of GDP.



hile aviation's total
emissions are modest
compared with other
sectors, they are not expected to
decrease in the coming years.
If the impact of air transport on the envi-

ronment is to be minimised, the industry must continuously devote adequate resources to improve its environmental performance. It has a duty to fully exploit the best available technology.

Latest Generation Turboprops

Environmental friendliness

Low emissions

Low fuel burn

Low airfield noise

ATR: promoting the concept of SUSTAINABLE AVIATION to ensure an OPTIMAL BALANCE between economic growth, social benefits and environmental responsibility.

ATR: The «Green» Star of Air Transport



Advanced propulsion technology

Optimum designed high-lift systems



efficient aerodynamics



Light structure

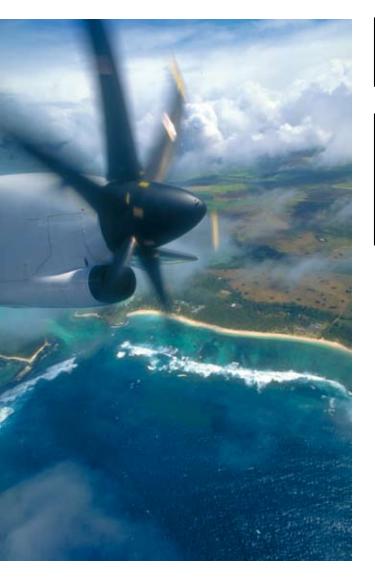


LESS

Fuel consumption

Gaseous emissions

Airport nuisances



Reduced environmental impact

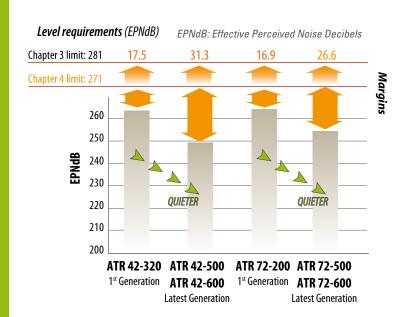
Matching International Standards

Meeting ICAO noise requirements with ample margins

's aim is to its contribution to ensure a sustainable future for the aviation industry, to reconcile the foreseen additional growth in the air transport industry with the absolute necessity of reducing its environmental impact.



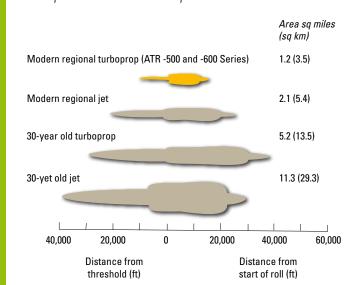
ATR's Quiet Neighbours for the Environment



Large margins vs ICAO Ch 4 regulations and more stringent future airport restrictions

The benefits of the new technology

Comparative noise footprints - 90 EPNdB

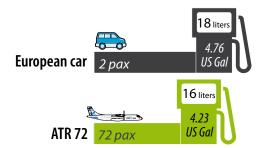


ATR: Welcome visitors at the smaller city airports and regional hubs with minimum environmental impact..

ATR -500 /-600 Series is one of the quietest in the industry

Comparing with other transport modes



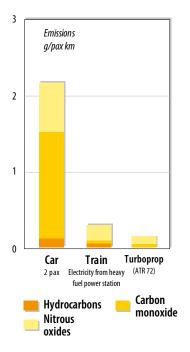


On a 200 Nm sector, the ATR 72-600 fuel consumption per passenger is up to 11% lower than a typical European car.

Gazeous Emissions Spectrum

ATR gaseous emissions per pax in terms of CO (Carbon Monoxide) are 15 times less than a car and comparable to the train.

As far as the Nitrous Oxides are concerned. the ATR is 3 times less pollutant than a car and 40% less than a train.



200 Nm (370 Km) typical sector - 65% Load Factor





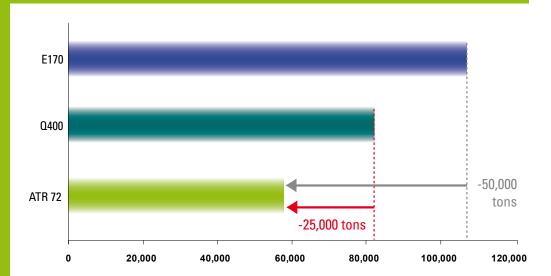
ATR is significantly cleaner and contributes to sustainable air transport development

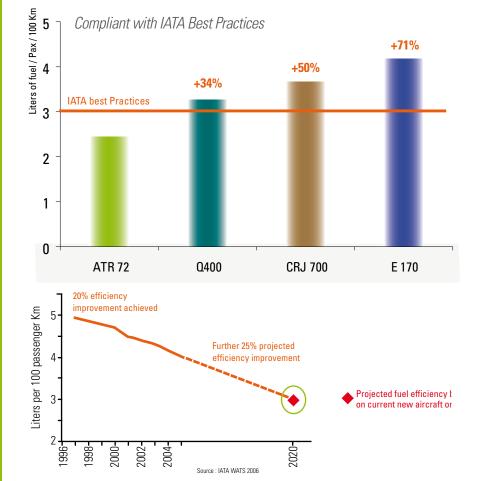


ATR Yearly CO2 saving - 10 aircraft fleet*

* 2,500 cycles / year / aircraft. Average sector of 250 Nm (460 Km)

Typical Cruise 97% MTOW





ATR 72 the only aircraft compliant with IATA Best Practises



IEGO NOMICAL

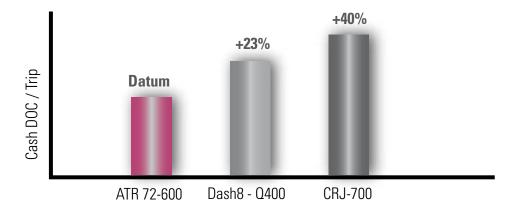


ATR: The Low-Cost Reference for The Regional Market

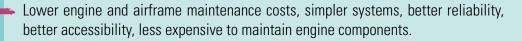
Turboprops are unrivalled on short-haul sectors...

ATR 72-600 features exceptionally low operating costs when compared to similar sized turboprop and regional jet competitors on typical regional sectors.

Sector: 250 Nm (460 Km)







Significantly lower airport and en-route charges, linked to MTOW.

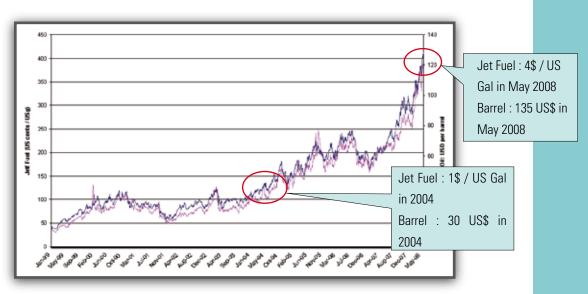
Exceptionally lower fuel costs.

Speed adapted to efficient, low-cost regional operation.



High fuel prices will drive demand for low-cost per seat aircraft

Oil and Jet Fuel costs : multiplied by four in 4 years



>>>> Fuel efficiency is increasingly important

The «cost of speed» on regional connections is being carefully monitored by airlines

Dash8 - Q400 extra fuel costs 1 Million US\$ / year / aircraft

Extra fuel cost generated by DASH8 - Q400:

Fuel Price	Extra US\$ / trip / aircraft	Extra US\$ / trip / aircraft
3\$ / US Gal	311	777,000
3.5\$ / US Gal	363	907,000
4\$ / US Gal	415	1,037,000

For 10 aircraft fleet over 10 years, this pays the initial capital cost of 5 ATR 72s.

Sector length: 250 Nm (460 Km); Yearly utilisation: 2,500 Cycles



Flying clean, burning lean, polluting less...

ATR is actively cooperating with its large base of 140 operators to recommand and suggest measures and initiatives to be adapted for efficient operation in the current environment of high fuel prices.

Investigating all the means to lower fuel consumption, by:

- > Better Pre-Flight Procedures
- > Efficient In-Flight Procedures

(optimising LF, Center of Gravity, fuel tankering, the most efficient routing, adapted descent techniques, monitoring weight issues and aircraft performance, ...)

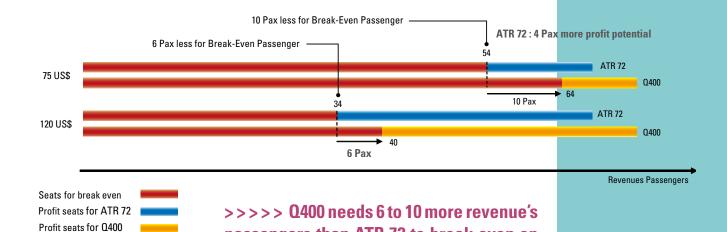


These recommendations can easily generate:

10 Kg to 15 Kg of fuel savings per flight, or 35,000 **US\$** to 45,000 **US\$** savings and 60 Tons to 100 Tons of CO2 savings per year per aircraft.

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ATR 72-600 : Better Economics = Superior Profitability



passengers than ATR 72 to break even on

Break Even Load Factor

Ticket Yield	ATR 72	Q400	Pax Difference
75 US\$	79%	87%	Q400 needs 10 more Pax
120 US\$	49%	54%	Q400 needs 6 more Pax

typical 250 Nm sector

The ATR -600 Series The most ECO NOMICAL LOGICAL way to fly short-haul connections





An Alexia Aeronautica and EADS joint neuture











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