



Alternative Fuels in Qatar Airways

“A view from the airlines’ perspective”

Presented by;
Captain Chris Schroeder, MBA, MSc
Head of Fuel Optimization, Environment & Corporate Social Responsibility



About Qatar





Area:	11,437 km ²
Population 2008:	1.4 million
GDP per capita:	\$29,400
GDP Growth rate:	7.1%
Unemployment rate:	3.2%
Weather:	arid; mild, pleasant winters; very hot, humid summers
Inflation:	7.2%
Visitors:	1 mil. in 2008, 1.5 mil. In 2010
Oil/ Gas:	Third largest natural gas reserves





Qatar Airways Facts



COPYRIGHT CARY LIAO

AIRLINERS.NET

Montreal, Feb. 10, 2009

ICAO WAAF

4



- **Began operations in 1997 with four aircraft**
- **Serves 78 passenger and 17 cargo destinations, carrying around 10 million passengers a year**
- **First airline to pass IOSA in 2003 with a 100% compliance**
- **Fleet of 65 ultra-modern aircraft & over 200 aircraft on order worth USD 30 billion**
- **Average fleet age is just 3 years**
- **An average year-on-year growth of 35% for the past 10 years**



Qatar Airways Highlights





- Opened a USD 90 million premium class terminal at its home base in Doha
- New Doha International Airport under construction, to be opened by 2011, a USD 9 billion investment. A masterpiece in environmental engineering
- Launched a new nonstop service to JFK in 2008 alongside Washington with Houston to follow by the end of March 2009
- One of only six ******* Star** airlines in the world
- The only ******* Star** airline in the Middle East





Qatar Airways & The Environment





- **Qatar Airways already operates a modern fleet with low noise, CO2 and NoX emissions**
- **We have over 200 next gen aircraft on order that meet even the most stringent emission requirements**
- **We implemented a wide-ranging fuel efficiency program in late 2007 for all departments**
- **In Nov. 2007, Qatar Airways, Qatar Fuel & Petroleum, Airbus, Rolls-Royce, Shell Petroleum Company established a consortium to study benefits of Synthetic Jet Fuel**
- **The State of Qatar just appointed its first ever Minister for Environment & we have pledged a very close cooperation in all fields, the first in the GCC**
- **But despite the riches of natural resources and currently lower fuel prices, the State of Qatar and Qatar Airways have a MISSION!**



Our Mission





We have the responsibility to deal with the impact on global climate change, noise, local air quality, non-renewable resources and waste. With that we have a direct economical impact on global climate change and environmental costs as well as a direct and indirect economic impact on society.

Therefore we have to go beyond the current industry best practices in order to continuously adapt to the ever changing business, political and social environment and with that to ensure a sustainable future for the airline, its staff and its neighborhoods.

The research and study of synthetic fuel is one of those initiatives.



The Way Forward





- We move from “program” to corporate & national culture
- Qatar Airways currently establishes its dedicated department for integrated fuel optimization which includes IFM and a dedicated alternative fuels roadmap, environmental affairs and corporate social responsibility
- We are committed to being in the forefront of alternative fuels development for commercial aviation
- We will shortly launch our innovative and comprehensive corporate strategy for environment and corporate social responsibility
- Our goal: ***Carbon Neutral Growth***



The Synthetic Jet Fuel Consortium



Trial Flights



© AIRBUS S.A.S. 2008

- **GTL Jet fuel blended with conventional kerosene used on 1st Feb 2008 on Airbus A 380 test flight from Filton to Toulouse**
- **Qatar Airways will make available one of its state-of-the-art A340-600 for a commercial trial flight will during the second half of 2009**

Expectations



- Blend ratios from 35% up to 50% GTL Kerosene are being tested
- Improved engine performance from better thermal stability thus permitting hotter engines
- Potential fuel economy (higher specific energy, lower density), improvement in payload range due to overall lower fuel consumption
- Product approval targeted for 1st half 2009
- GTL contributes to the 'Diversity of Supply' of jet fuel to the aviation industry by creating a performance fuel component from non-crude oil feedstock
- But we are just at the beginning of the road.....!!

Together for a sustainable future in aviation!

Everyone has a part to play!

Thank you!

