

# EVERY KILO COUNTS!

الإتihad  
**ETIHAD**  
AIRWAYS  
ABU DHABI



How we save fuel and reduce emissions every minute of every day...

## THE FUEL TEAM

Working with internal and external partners and stakeholders, the team employs various methods to establish sustainable fuel levels and help the airline to maintain its competitive commercial edge.

During the week commencing September 22, the Fuel Efficiency team will sponsor Fuel Optimisation Week, a new initiative to highlight Etihad Airways' ongoing efforts to protect the environment and minimise the consumption of fuel on every flight.



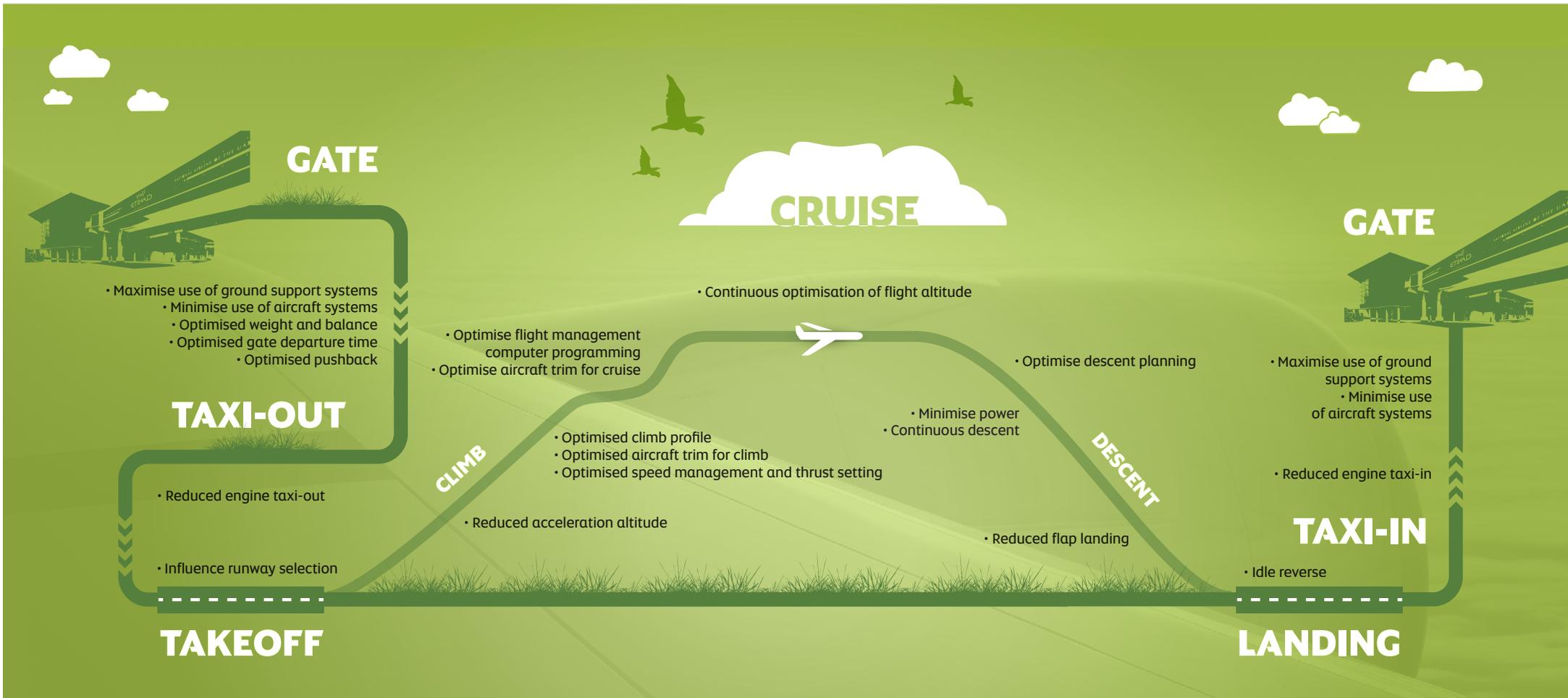
## OUR FUEL FACTS

- Etihad Airways will consume in excess of 2 billion kilos of fuel during 2013. This means 6,3 million tons of carbon emissions.
- Through the use of Auxiliary Power Units (APU) on the aircraft, Etihad Airways will consume in excess of 30 million kilos of fuel this year. Or 95,000 tons of carbon emissions.
- Reducing the weight of every Etihad Airways flight during this year by a single kilo would result in consuming approximately 12,000 kilos less fuel. This is our Cost of Weight.
- The fuel efficiency team aims to reduce the Etihad Airways overall fuel consumption through further implementation of industry best practices where possible. We look at the three main areas of fuel efficiency: reducing aircraft weight, increasing aircraft efficiency and optimising flight planning and fuel usage. The overall result will always be a safe, comfortable and efficient operation.

**FUEL**  
OPTIMISATION  
WEEK

Turn to the back page to find out how the team plans to optimise fuel use, reduce carbon emissions and save money!

# WHAT WE DO TO OPTIMISE FUEL:



## And supported by:

### GROUND OPERATIONS

#### PRE-FLIGHT PLANNING

- Large investment in fuel planning accuracy

#### GROUND HANDLING

- Load control
- Weight and balance



### CABIN & GALLEY

- Consider weight in all new equipment and products
- Constantly review and streamline on-board product use
- Reduce over-catering wastage



### AIRCRAFT MAINTENANCE

- Onboard systems optimisation
- Minimising aerodynamic drag
- Frequent aircraft washing
- Regular instrument calibration
- Frequent engine core washing
- Weight control

23 September 2013

### OPTIMISED TAKEOFFS AND LANDINGS

Working closely with Air Traffic Control in our hub, Etihad Airways flights will use a specially designed procedure whenever possible to ensure a smooth and continuous descent and approach (RNP-AR). This procedure can result in a saving of up to 400 litres of fuel and 1,260 kilos reduction in carbon emissions.



24 September 2013

### REDUCING APU USAGE

Working together with the ground handling services team, Etihad Airways will maximise the use of ground-supplied power and significantly reduce the use of the less efficient APUs where possible. In addition, we will focus on weight related initiatives, such as lighter containers for baggage and cargo.



25 September 2013

### OPTIMISING FUEL ON AN ULTRA LONG-HAUL FLIGHT: ABU DHABI TO SAO PAULO, BRAZIL

Etihad Airways will work with a range of stakeholders, including civil aviation authorities, air traffic controllers, airports and ground services to apply as many fuel-saving measures as possible throughout this ultra-long haul flight.

Fuel-saving measures will include:

- efficient completion of preflight procedures
- optimised pushback from the gate
- priority taxi and takeoff
- optimum flight route at optimum altitudes throughout the journey
- route and altitude variance for maximum benefit of wind and weather conditions
- optimised descent, approach and landing in Brazil,
- reduced engine taxi after landing

