



## CAAS, SIA take steps to reduce carbon emissions

08:25 PM May 16, 2011

The Civil Aviation Authority of Singapore (CAAS) and Singapore Airlines (SIA) are taking further steps to reduce the carbon footprint of flights.

In a joint statement on Monday, both entities said a non-stop flight from Los Angeles to Singapore would employ enhanced air traffic management operational procedures to reduce fuel burn and carbon emissions. This green initiative comes under the Asia and Pacific Initiative to Reduce Emissions partnership, which looks at launching 'green' flights across the region.

Specifically, it targets pairs of airports throughout the Asia-Pacific region, one of the fastest growing aviation markets in the world. The first such 'city pair' flight was launched between Auckland and San Francisco on Feb 21.

SIA Senior Vice-President for Flight Operations, Mr Gerard Yeap, said SIA would be monitoring the flight closely to track the fuel and emission savings. It expects to reduce fuel burn by 2 tonnes and achieve carbon emission savings of around 6.3 tonnes for each Los Angeles-Singapore sector, he added.

URL <http://www.todayonline.com/Business/EDC110516-0000819/CAAS,-SIA-take-steps-to-reduce-carbon-emissions>

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Print

**Business Times - 17 May 2011**

## **SIA to launch 'green' flights to US**

**By TAM YU LING**

THE Civil Aviation Authority of Singapore (CAAS) and Singapore Airlines (SIA) are working with their aviation counterparts in the United States and the Philippines to launch regular 'green' flights from Los Angeles to Singapore.

SIA's SQ37 which flew on May 16 employed green practices during its flight so as to reduce greenhouse gas emissions and fuel burn.

Using the User-Preferred Route system, pilots in that flight changed air routes to suit weather conditions and reduce fuel burn.

The SQ37 also used Time-Based Arrivals Management which saw its engine being set to idle mode during the plane's descent to lower fuel usage.

As a result of the flight procedures being put in place, flight times are reduced and this will ultimately benefit passengers on such flights.

SIA's senior vice-president of flight operations, Captain Gerald Yeap, said: 'We expect to reduce fuel burn by 2 tonnes and achieve carbon emission savings of around 6.3 tonnes for each Los Angeles-Singapore sector.'

The CAAS was included as a member of the Asia and Pacific Initiative to Reduce Emissions (Aspire) in 2010 and the environmentally friendly flight comes under the 'Aspire-Daily City Pair' programme which aims to deliver green practices for airports in the Asia-Pacific.

Besides SIA, Aspire is also working closely with other airlines in the region. Such airline partners include Air New Zealand, Qantas, United Airlines and Japan Airlines.

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## CAAS AND SIA TAKE FURTHER STEPS TO REDUCE CARBON FOOTPRINT OF FLIGHTS

Source: CAAS & Singapore Airlines

16/05/2011

The Asia and Pacific Initiative to Reduce Emissions (ASPIRE) partnership<sup>1</sup> is launching regular 'green' flights across Asia and the Pacific. These come under the 'ASPIRE-Daily City Pair' programme, which aims to deliver gate-to-gate environmental best practices for pairs of airports throughout the Asia Pacific, one of the fastest growing aviation markets in the world. The first daily 'city pair' flight was launched between Auckland and San Francisco on 21 February 2011. More of such 'city pair' flights will be implemented over the next few months by ASPIRE partners.

On 16 May 2011, the Civil Aviation Authority of Singapore (CAAS) and Singapore Airlines (SIA), working together with the United States Federal Aviation Administration and the Civil Aviation Authority of the Philippines, are launching the second regular 'city pair' - Los Angeles (LAX) to Singapore (SIN) - flight. SIA flight SQ37, which operates non-stop from Los Angeles to Singapore, will employ enhanced gate-to-gate air traffic management operational procedures to reduce fuel burn and carbon emissions in all phases of the flight.

Mr Yap Ong Heng, Director-General of CAAS, said, "CAAS aims to actively contribute to reducing aviation's environmental footprint where we can. Hence, our participation in the 'ASPIRE-Daily City Pair' programme, with the launch of the LAX-SIN 'city-pair' with SIA. This will clearly demonstrate how collaboration among ASPIRE partners, airlines and other Air Navigation Service Providers in employing best practices and technologies in air traffic management can achieve significant reductions in fuel consumption and carbon emissions for flights."

The following air traffic management best practices, which significantly reduce fuel burn and carbon emissions, will be utilised for the LAX-SIN 'green' flight:

'User-Preferred Routes', 'Dynamic Airborne Reroute Procedures' and '30/30 Reduced Oceanic Separation', which allow pilots to take full advantage of atmospheric conditions, such as prevailing winds, to reduce separation between aircraft and shorten flight time;

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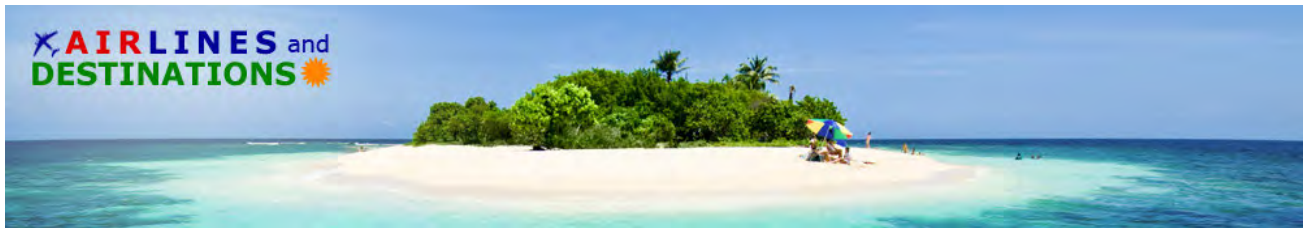
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Each 'ASPIRE-Daily City Pair' is star-rated based on the number of best practice procedures employed, with three stars representing the minimum required and five stars indicating that all identified best practices



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## SIA Begins Daily 'Green' Flights between Los Angeles and Singapore

by Staff on May 16, 2011



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The flights are being organized and handled by the Asia and Pacific Initiative to Reduce Emissions (ASPIRE) partnership. The partners in ASPIRE are Airways New Zealand, the [Federal Aviation Administration](#), Airservices Australia, the Japan Civil Aviation Bureau and the Civil Aviation Authority of Singapore.

Los Angeles-Singapore is the second regular 'city pair' under the 'ASPIRE-Daily City Pair' program, which aims to deliver gate-to-gate environmental best practices for flights between pairs of airports throughout Asia and the Pacific, which have some of the fastest-growing aviation markets in the world. The first daily 'city pair' flight was launched between Auckland and San Francisco on February 21.

More green city-pair flights will be added over the next few months by ASPIRE partners.



Singapore Airlines has an extensive long-haul fleet. Among the many aircraft in the fleet are five Airbus A340-500s, which the airline has configured in all-business-class configuration. Each of the A340-500s has just 100 seats and they fly some of the longest routes in the world, including the well-known Newark-Singapore non-stop flight which takes about 19 hours. Another non-stop operated by SIA's A340-500s is flight SQ37 between Los Angeles and Singapore, which became a 'green' flight – which uses advanced air traffic management operational procedures to save fuel – on May 16, 2011

"CAAS aims to actively contribute to reducing aviation's environmental footprint where we can. Hence, our participation in the 'ASPIRE-Daily City Pair' programme, with the launch of the LAX-SIN 'city-pair' with SIA," says Yap Ong Heng, director-general of CAAS. "This will clearly demonstrate how collaboration among ASPIRE partners, airlines and other air navigation service providers in employing best practices and technologies in air traffic management can achieve significant reductions in fuel consumption and carbon emissions for flights."

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"We are pleased to be able to implement these flight procedures on a regular basis, and see this as yet another step towards greener skies," says Gerard Yeap, Singapore Airlines' senior vice-president flight operations. "We will be monitoring the flight closely to track the fuel and emission savings, but we expect to reduce fuel burn by 2 tonnes and achieve carbon emission savings of around 6.3 tonnes for each Los Angeles-Singapore sector."

Each ASPIRE-Daily City Pair is rated based on the number of best-practice procedures employed, with three stars representing the minimum required and five stars indicating that all identified best practices are employed. The LAX-SIN city pair is assigned a four-star rating.

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*Tuesday, 17 May 2011*

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Each 'ASPIRE-Daily City Pair' is star-rated based on the number of best practice procedures employed, with three stars representing the minimum required and five stars indicating that all identified best practices are employed. The LAX-SIN 'city pair' is assigned a 4-star rating.

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# SIA Begins Daily 'Green' Flights between Los Angeles and Singapore

May 16th, 2011 admin



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Singapore Airlines has an extensive long-haul fleet. Among the many aircraft in the fleet are five Airbus A340-500s, which the airline has configured in all-

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**ENVIRONMENT**

16 May 2011

## CAAS and SIA Take Further Steps to Reduce Carbon Footprints of Flights

The Asia and Pacific Initiative to Reduce Emissions (ASPIRE) partnership\* is launching regular 'green' flights across Asia and the Pacific.

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### About ASPIRE

ASPIRE (Asia and Pacific Initiative to Reduce Emissions) was established in 2008; a partnership between **Airways New Zealand**, the Federal Aviation Administration and **Airservices Australia**. Membership has since extended to include CAAS (Singapore) and JCAB (Japan).

ASPIRE takes a collaborative approach to air traffic management along key Asian and Pacific routes. Working with government agencies, airlines, regulators and other aviation industry stakeholders, ASPIRE aims to accelerate the development of 'gate to gate' operational procedures to reduce fuel burn and emissions for all phases of flight.

In 2008/09, the ASPIRE partners undertook a series of demonstration flights (linking NZ, Australia and the US). Each flight had access to the most advanced air navigation services and aircraft fuel optimisation initiatives currently available. Data gathered from these flights indicated an average 4% fuel savings and up to 15,000kg reduction in CO<sub>2</sub> emissions.

ASPIRE won the 2009 Jane's Global ATC Award; acknowledged for its commitment to promote best practises in the provision of ATM; to accelerate the development of new procedures and technologies to reduce aviation's environmental footprint and to develop shared performance measurements on emissions.

ASPIRE = less fuel burn, less time; in short it's good for the industry; it's good for passengers and it's great for the environment. ASPIRE is changing how we fly.

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### Singapore Airlines heads for greener skies

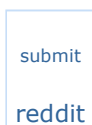
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There's nothing quite like taking flight, but as an industry, aviation is responsible for around 2 percent of global carbon emissions. And, according to a recently released [report on sustainable aviation](#) by the World Economic Forum, emissions are set to increase three-fold by 2050, despite a goal by the industry to halve emissions in the same time frame. Even options like biofuel would require a massive uptake to help reach this goal, with the report suggesting the rate of biofuel production would have to reach 13.6 million barrels a day by 2050.

While the goal may be ambitious, yet necessary, something called the [ASPIRE](#) (Asia and Pacific Initiative to Reduce Emissions) partnership is hoping to do its own bit by launching regular flights between pair cities that it's hoped will deliver gate-to-gate best practices to reduce fuel burn and emissions in all phases of flight. In February this year, the first 'ASPIRE- Daily City Pair' route took flight between Auckland and San Francisco. And just yesterday the second flight pair took flight, this one operating between Los Angeles and Singapore.

The current city pairs, and all future city pairs, are rated under a star rating system based on the number of best-practice procedures available, with three stars representing the minimum required, and five stars indicating all best practices are available.

Best practice can be achieved through:

- User-preferred routes, dynamic airborne reroute procedures and 30/30 reduced oceanic separation, which allow pilots to take full advantage of atmospheric conditions, such as prevailing winds, to reduce separation between aircraft and shorten flight time.
- Time-based arrivals management and arrivals optimisation which allow aircraft to fly with engines set at idle mode in continuous descent from a high altitude during the landing phase of the flight, thus reducing fuel burn.

Singapore Airlines senior vice-president of flight operations, Gerard Yeap, says the airline will keep a close eye on the fuel and emissions savings and expects the air traffic management practices to reduce fuel burn by two tonnes, saving 6.3 tonnes of carbon emissions per flight.

### More about APSIRE

ASPIRE was established in 2008 to reduce the impact of aviation on the environment in the Asia and South Pacific regions through technological innovation and best practice air traffic management. It is a joint partnership between air navigation service providers [Airservices Australia](#), [Airways New Zealand](#) and the [Federal Aviation Administration](#) of the United States of America. Membership has since extended to include CAAS (Singapore) and JCAB (Japan).

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**CAAS and SIA take further steps to reduce carbon footprint of flights**Posted By [Chisa Boonmee](#) On May 18, 2011 @ 1:00 am In [Environmental](#) | [No Comments](#)

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CAAS and SIA take further steps to reduce carbon footprint of flights  
Tuesday, 17 May 2011

#### Regular 'green' flights from Los Angeles to Singapore launched

The Asia and Pacific Initiative to Reduce Emissions (ASPIRE) partnership<sup>1</sup> is launching regular 'green' flights across Asia and the Pacific. These come under the 'ASPIRE-Daily City Pair' programme, which aims to deliver gate-to-gate environmental best practices for pairs of airports throughout the Asia Pacific, one of the fastest growing aviation markets in the world. The first daily 'city pair' flight was launched between Auckland and San Francisco on 21 February 2011. More of such 'city pair' flights will be implemented over the next few months by ASPIRE partners.

On 16 May 2011, the Civil Aviation Authority of Singapore (CAAS) and Singapore Airlines (SIA), working together with the United States Federal Aviation Administration and the Civil Aviation Authority of the Philippines, are launching the second regular 'city pair' - Los Angeles (LAX) to Singapore (SIN) - flight. SIA flight SQ37, which operates non-stop from Los Angeles to Singapore, will employ enhanced gate-to-gate air traffic management operational procedures to reduce fuel burn and carbon emissions in all phases of the flight.

Mr Yap Ong Heng, Director-General of CAAS, said, "CAAS aims to actively contribute to reducing aviation's environmental footprint where we can. Hence, our participation in the 'ASPIRE-Daily City Pair' programme, with the launch of the LAX-SIN 'city-pair' with SIA. This will clearly demonstrate how collaboration among ASPIRE partners, airlines and other Air Navigation Service Providers in employing best practices and technologies in air traffic management can achieve significant reductions in fuel consumption and carbon emissions for flights."

The following air traffic management best practices, which significantly reduce fuel burn and carbon emissions, will be utilised for the LAX-SIN 'green' flight: 'User-Preferred Routes', 'Dynamic Airborne Reroute Procedures' and '30/30 Reduced Oceanic Separation', which allow pilots to take full advantage of atmospheric conditions, such as prevailing winds, to reduce separation between aircraft and shorten flight time; 'Time-Based Arrivals Management' and 'Arrivals Optimisation' which allow aircraft to fly with engines set at idle mode in continuous descent from a high altitude during the landing phase of the flight, thus reducing fuel burn.

"We are pleased to be able to implement these flight procedures on a regular basis, and see this as yet another step towards greener skies. We will be monitoring the flight closely to track the fuel and emission savings, but we expect to reduce fuel burn by 2 tonnes and achieve carbon emission savings of around 6.3 tonnes for each Los Angeles-Singapore sector," says Singapore Airlines' Senior Vice-President Flight Operations Gerard Yeap.

Each 'ASPIRE-Daily City Pair' is star-rated based on the number of best practice procedures employed, with three stars representing the minimum required and five stars indicating that all identified best practices are employed. The LAX-SIN 'city pair' is assigned a 4-star rating.

Source : Singapore Airlines

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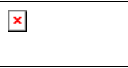
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May 15, 2011

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Each 'ASPIRE-Daily City Pair' is star-rated based on the number of best practice procedures employed, with three stars representing the minimum required and five stars indicating that all identified best practices are employed. The LAX-SIN 'city pair' is assigned a 4-star rating.

Source: Civil Aviation Authority of Singapore  
Posted by: just4airlines.com at 0352h UTC May 16, 2011



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 **May 16, 2011**

## **CAAS And Singapore Airlines Take Further Steps To Reduce Carbon Footprint Of Flights**

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[www.singaporeair.com](http://www.singaporeair.com)

[www.aspire-green.com](http://www.aspire-green.com)

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<http://www.scoop.co.nz/stories/BU1105/S00565/green-flights-from-los-angeles-to-singapore-launched.htm>

## 'Green' flights from Los Angeles to Singapore launched

Tuesday, 17 May 2011, 9:39 am  
Press Release: Singapore Airlines

### CAAS And Singapore Airlines Take Further Steps To Reduce Carbon Footprint Of Flights

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\* \* \*

Note 1: The ASPIRE partners are Airways New Zealand, the United States Federal Aviation Administration, Airservices Australia, Japan Civil Aviation Bureau and Civil Aviation Authority of Singapore.

### **About ASPIRE**

ASPIRE (Asia and Pacific Initiative to Reduce Emissions) was established in 2008; a partnership between Airways New Zealand, the Federal Aviation Administration and Airservices Australia. Membership has since extended to include CAAS (Singapore) and JCAB (Japan).

ASPIRE takes a collaborative approach to air traffic management along key Asian and Pacific routes. Working with government agencies, airlines, regulators and other aviation industry stakeholders, ASPIRE aims to accelerate the development of 'gate to gate' operational procedures to reduce fuel burn and emissions for all phases of flight.

In 2008/09, the ASPIRE partners undertook a series of demonstration flights (linking NZ, Australia and the US). Each flight had access to the most advanced air navigation services and aircraft fuel optimisation initiatives currently available. Data gathered from these flights indicated an average 4% fuel savings and up to 15,000kg reduction in CO<sup>2</sup> emissions.

ASPIRE won the 2009 Jane's Global ATC Award; acknowledged for its commitment to promote best practises in the provision of ATM; to accelerate the development of new procedures and technologies to reduce aviation's environmental footprint and to develop shared performance measurements on emissions.

ASPIRE = less fuel burn, less time; in short it's good for the industry; it's good for passengers and it's great for the environment. ASPIRE is changing how we fly.

For more detailed information about ASPIRE-Daily: <http://www.aspire-green.com/>

### **About the Civil Aviation Authority of Singapore**

The mission of the Civil Aviation Authority of Singapore (CAAS) is to "Grow a safe, vibrant air hub and civil aviation system, making a key contribution to Singapore's success". CAAS' roles are to oversee and promote safety in the aviation industry, develop the air hub and aviation industry, provide air navigation services, develop Singapore as a centre for aviation knowledge and training, and contribute to the development of international aviation.

### **About Singapore Airlines**

When Singapore Airlines was formed in 1972, it operated a modest fleet of 10 aircraft to just 22 cities in 18 countries. With a commitment to fleet modernisation, product and service innovation and market leadership, the airline quickly distinguished itself as a world-class carrier.

Today, Singapore Airlines operates a modern passenger fleet of more than 100 aircraft and its

network, including Singapore Airlines Cargo and SilkAir destinations, currently covers a total of 101 destinations in 40 countries.

In October 2007, Singapore Airlines, a member of the Star Alliance, made aviation history again as the first to fly the world's largest passenger aircraft, the Airbus A380.

ends

### **Singapore Airlines launches 'green' flights through ASPIRE initiative**

Singapore Airlines has launched a regular schedule of green flights in conjunction with a nationwide carbon-cutting scheme. The airline is working with the Asia and Pacific Initiative to Reduce Emissions (ASPIRE) to pair airports across the world that offer the best environmental practices. ASPIRE's first daily flights were launched between Auckland and San Francisco earlier this year and it expects to launch more 'city pair' flights in the future. "This will clearly demonstrate how collaboration among ASPIRE partners, airlines and other Air Navigation Service Providers in employing best practices and technologies in air traffic management can achieve significant reductions in fuel consumption and carbon emissions for flights," said Yap Ong Heng, director-general of the Civil Aviation Authority of Singapore (CAAS). ASPIRE works with the providers through a series of landing procedures. "We will be monitoring the flight closely to track the fuel and emission savings, but we expect to reduce fuel burn by 2 tonnes and achieve carbon emission savings of around 6.3 tonnes for each Los Angeles-Singapore sector," explained Gerard Yeap, SVP flight operations at SIA. Qantas, United Airlines and Japan Airlines have also launched green flights through the initiative since its launch in 2008.

## SIA launches green flights to LAX



Singapore Airlines (SIA) and the Civil Aviation Authority of Singapore (CAAS) have announced that they are working with the US Federal Aviation Administration to launch a new trans-pacific 'green' flight between Singapore and Los Angeles. Flight SQ37, which operates the trans-Pacific route using an Airbus A340-500, will employ enhanced gate-to-gate air traffic management operational procedures to reduce fuel burn and carbon emissions in all phases of the flight. The flight is part of the Asia and Pacific Initiative to Reduce Emissions (ASPIRE) green flights initiative.

These include the adoption of 'User-Preferred Routes', 'Dynamic Airborne Reroute Procedures' and '30/30 Reduced Oceanic Separation', which allow pilots to take full advantage of atmospheric conditions, such as prevailing winds, to reduce separation between aircraft and shorten flight time.

Other techniques include 'Time-Based Arrivals Management' and 'Arrivals Optimisation' which allow aircraft to fly with engines set at idle mode in continuous descent from a high altitude during the landing phase of the flight, thus reducing fuel burn.

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SIA's Senior Vice-President Flight Operations, Gerard Yeap, added; "We are pleased to be able to implement these flight procedures on a regular basis, and see this as yet another step towards greener skies. We will be monitoring the flight

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16.05.2011

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