



SITA

HOW SINGAPORE AIRLINES OPTIMISES EVERY FLIGHT AND WHY IT MATTERS

A story of measurable impact
and operational excellence.

From operating a young and modern fleet and improving the efficiency of aircraft operations, to investing in sustainable aviation fuel and rethinking waste and resources, Singapore Airlines' approach to sustainability is comprehensive and aligned with industry-wide efforts.

“Every act counts...”

And in the skies, that commitment takes flight. Using AI built specifically to understand each aircraft's operational data, SIA adjusts every climb for potential fuel savings.

These quiet, daily optimisations deliver real impact, helping SIA reduce thousands of tonnes of CO₂ annually and reinforcing its commitment to responsible aviation.

The challenge: flying smarter in a carbon-constrained world



Global Pressure
to Decarbonise

Net-zero is the new standard. SIA is committed to meet global expectations without compromising world-class service.



Operational
Complexity at Scale

Each flight involves countless variables. Optimising fuel and emissions across a global network is a daily challenge.



Data Without
Direction

SIA collects vast amounts of flight data, but turning that into actionable, real-time decisions requires advanced capabilities.

✓ The solution: optimising every flight to unlock sustainability at scale



PRECISION IN EVERY FLIGHT

SIA fine-tunes flight phases using predictive analytics, achieving an average of 162kg of fuel savings per climb across all aircraft types.



PROVEN AND TRUSTED IMPACT

SIA's optimised climb delivered over 5,000 tonnes of fuel savings in the first 6 months of 2025, reinforcing its commitment to responsible aviation.

Why it works

It works because of people, and over 70 of them! SITA's engineers, data scientists, and aviation experts work hand in hand with SIA to turn flight data into clear, practical guidance.

By combining infrastructure know-how, AI expertise, and deep airline operations knowledge, they help every aircraft and pilot make smarter decisions in fuel savings.

READY TO FLY SMARTER?

Drop us a note if you're ready to lead with impact, just like SIA.





Registered Office

SITA SC

2 Avenue des Olympiades
B-1140 Brussels
Belgium
Tel: +32 (0) 2 745 0517

Geographic Offices

Americas

600 Galleria Parkway SE
Suite 1000
Atlanta, GA 30339
USA
Tel: +1 770 850 4500

Asia Pacific

11 Loyang Way
Singapore 508723
Republic of Singapore
Tel: +65 6545 3711

Europe

Chemin de Blandonnet 10
1214 Vernier
Switzerland
Tel: +41 22 747 6000

Middle East & Africa

Holcom Building
Cornich Al Nahr
Beirut - Lebanon
Tel: +961 1 637300



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WWW.SITA.AERO