



Case Study

Client

Leading National Airline,
Oceania

Project Number

21115

SAF Feasibility Review for a Leading National Airline

Client Overview

A leading national airline in Oceania, working in partnership with government stakeholders, sought to evaluate developers capable of delivering the region's first commercial sustainable aviation fuel (SAF) facility. With aviation decarbonization a **strategic priority**, the airline needed an **impartial, expert-led review** of competing proposals.

The Challenge

Oceania faces **unique constraints**: limited feedstock availability, high production costs, and **no precedent for commercial SAF production**.

To move forward with confidence, the airline required independent expertise to:

- Compare developer proposals on technical, economic, and policy grounds.
- Benchmark project assumptions against global SAF leaders.
- Identify risks or "show-stoppers" that could prevent commercial deployment.



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LEC's Approach

LEC conducted a Stage 2 Pre-Feasibility Review (FEL-1) to deliver actionable insight:

- **Supplier Engagement** – Engaged multiple international SAF developers and reviewed their proposals in depth.
- **Global Benchmarking** – Compared CAPEX, OPEX, yields, feedstocks, job creation potential, and lifecycle GHG reductions to international SAF projects.
- **Risk Assessment** – Flagged unproven waste-to-SAF pathways, offshore processing dependencies, and policy misalignments.
- **Policy Fit** – Evaluated alignment with national recycling and waste minimization priorities, alongside global SAF frameworks.

Results & Findings

- ✓ **Two developers** submitted technically credible and commercially structured proposals.
- ✓ **Lifecycle GHG reductions** >70%, though verification confidence varied.
- ✓ **Economic modeling** revealed clear trade-offs between upfront CAPEX and payback timelines.
- ✓ **Risks included** lack of precedent for forestry/MSW-to-SAF conversion and reliance on offshore processing capacity.

Impact

LEC's independent review provided the airline and government partners with a credible, stepwise assessment that reduced uncertainty and safeguarded against premature commitments. The findings gave leadership the clarity needed to refine SAF strategy, strengthen developer negotiations, and lay the groundwork for Oceania's entry into global aviation decarbonization.