



Truckee Tahoe Airport

SimpliFlying Immersion
February 10, 2025

Call to Action



Problem

Aviation emissions today account for 3% of global emissions, primarily from jet fuel burn

In unmitigated, aviation emissions could account for up to 22% of global emissions by 2050.

IATA projects that SAF will account for 65% of aviation decarbonization



Scaling SAF will require sending demand signals, increasing production, and achieving price parity with fossil jet fuel



Solution

SAF is a molecularly similar fuel to jet-A, produced from renewable feedstocks

SAF burns cleaner, improves air quality, and can utilize existing infrastructure and engines

SAF is where the industry is going, it's only a matter of time.

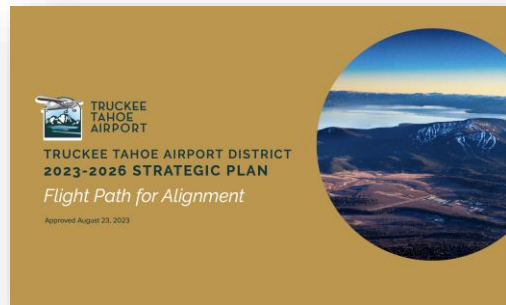
Building a Coalition & Strategic Vision

The elected board and airport are a values driven organization, showcased in the airport's strategic plan which includes a sustainability pillar and the transition to SAF



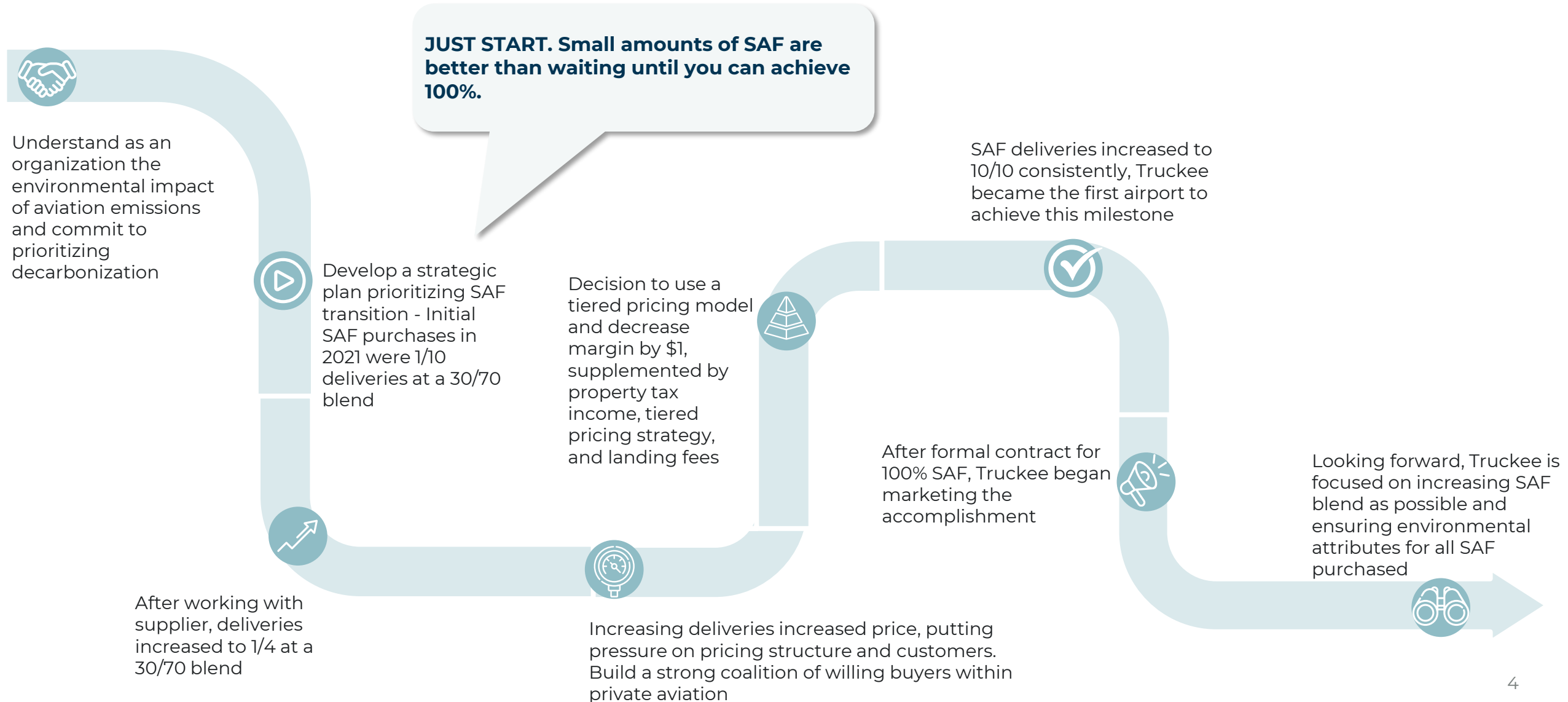
Truckee Tahoe is a destination airport that serves private and business aviation. The region benefits from the nearby concentration of wealth in the Bay Area and Silicon Valley

Truckee is historically an environmentally conscious region and recognizes the importance of reducing GHG emissions to preserve the natural environment.



The airport became a global leader in the SAF transition as the first to achieve the milestone of offering only a SAF blend to all users in 2023

Implementation Roadmap



Comparative Advantage



KTRK used a fuel supplier with access to SAF through a reliable, global SAF producer

When the transition to SAF began, Truckee was using AvFuels, a supplier receiving fuel from Neste. This supported KTRK's transition as they were able to work with AvFuels to increase supply and send demand signals



KTRK has geographic proximity and a favorable truck route from regional SAF blending and distribution.

Producer Neste was blending at Sunoco Terminal in Shelby, CA to receive as many incentives as possible. This proximity to the Bay Area made delivery to Truckee a possible earlier than many other GA airports



KTRK benefits from state policy that incentivizes producers to sell into California.

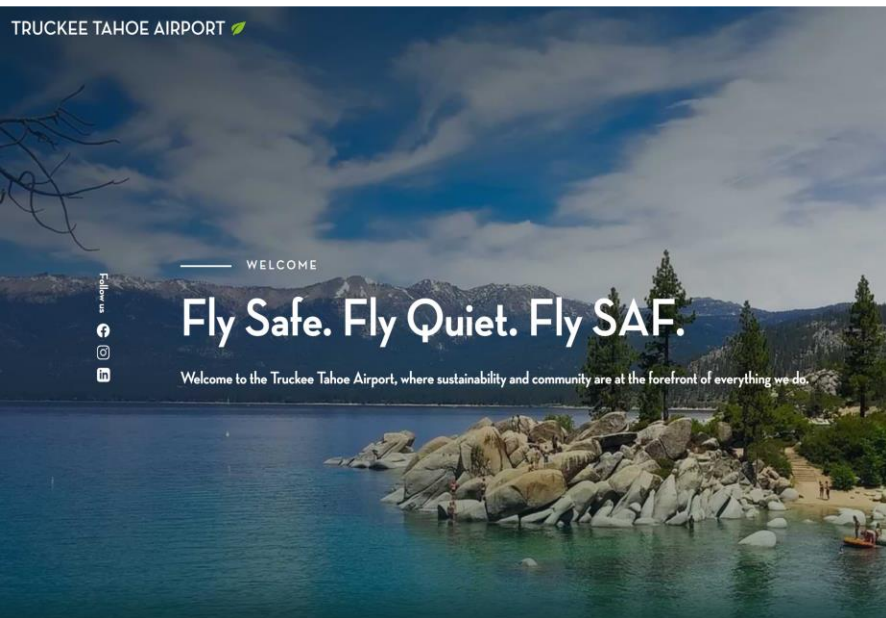
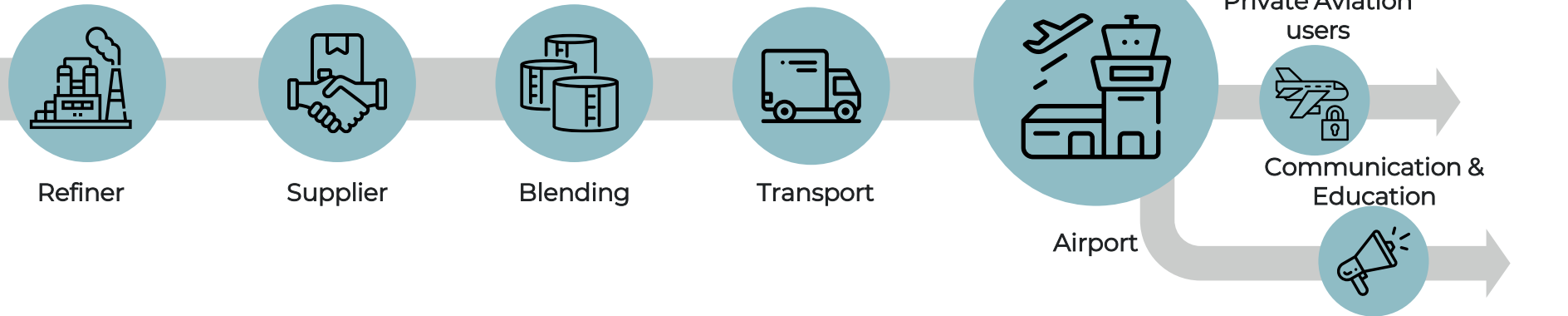
KTRK is in California, benefiting from the long-standing state low carbon fuel standard



A single business entity that owns and operates the airport simplifies a SAF transition.

Truckee owning their FBO minimized the internal stakeholders and companies that required negotiation and education. While this made the transition more seamless, FBOs globally are committed to SAF

Telling the story



Implementing Change

Context:

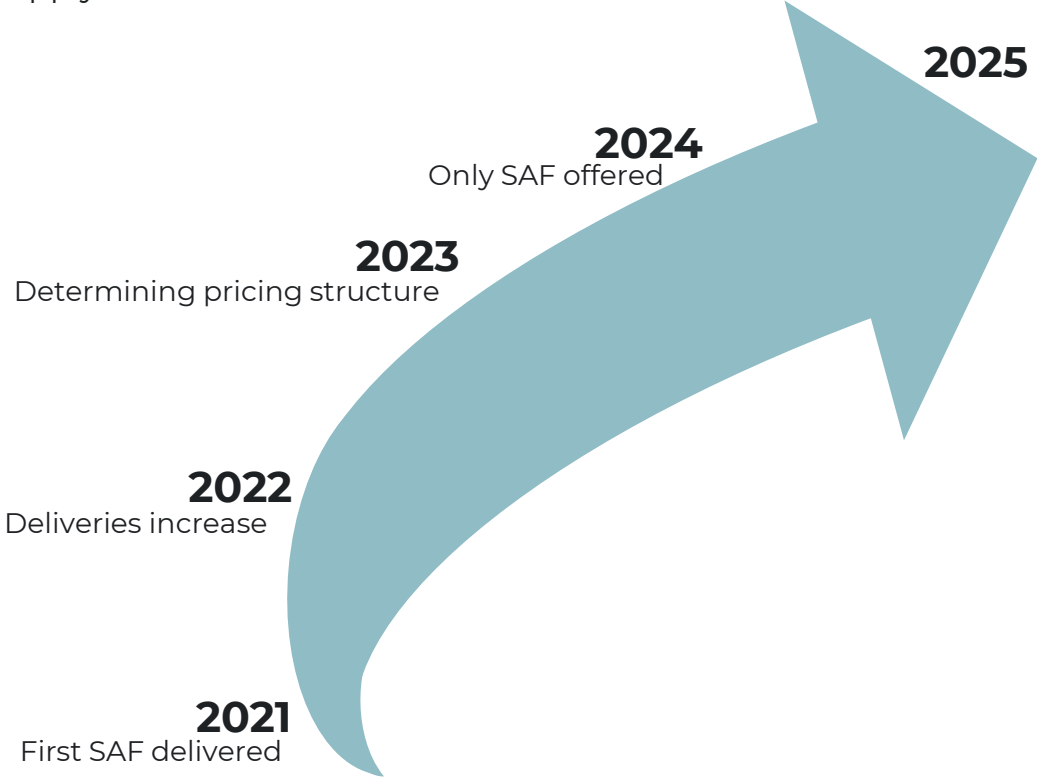
KTRK receives revenue from property taxes, airport operations, and public funding. Private aviation, the primary users of the airport, are often less price-sensitive high-net-worth individuals and corporations. Unlike commercial aviation, which faces higher taxes and competitive pressures, private flyers only pay a small fuel surcharge tax, contributing to the conventional pricing structure.

Pricing:

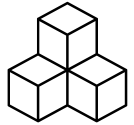
The Cost of West Coast Fossil Jet Fuel	The Cost of SAF (KTRK Local)	The Cost of SAF (KTRK Retail)
Margin	Margin SAF Premium contract	Margin SAF Premium contract
Transportation	Transportation	Transportation
State and Federal Taxes	State and Federal Taxes	State and Federal Taxes
LA Means Platts the weekly cost of Jet-A <i>Varies with market</i>	LA Means Platts the weekly cost of Jet-A <i>Varies with market</i>	LA Means Platts the weekly cost of Jet-A <i>Varies with market</i>

Supply chain:

KTRK and AvFuel implemented a system to ensure only SAF-blended fuel is delivered to the airport. This backend constraint helps manage the complex supply chain involving multiple stakeholders typically accustomed to conventional Jet-A. The SAF journey to Truckee involves production, blending, certification, and trucking, as the airport lacks rail or pipeline connections. Deliveries require careful planning and strong relationships with suppliers and ground teams to maintain adequate supply and ensure a smooth transition to SAF.



Reinforce, scale, replicate



Reinforcing and scaling at Truckee

Environmental attributes

As SAF begins to scale, users want to claim the environmental attributes and emission reductions from the fuel. For Truckee, management of the environmental attributes of the fuel they purchase and offtake is a work in progress with the industry and fuel supplier.

Procurement volume

Neste was the first producer to increase blending volumes beyond 30%. Continuing this process to further reduce Jet-A and increase SAF availability will support Truckee and the industry

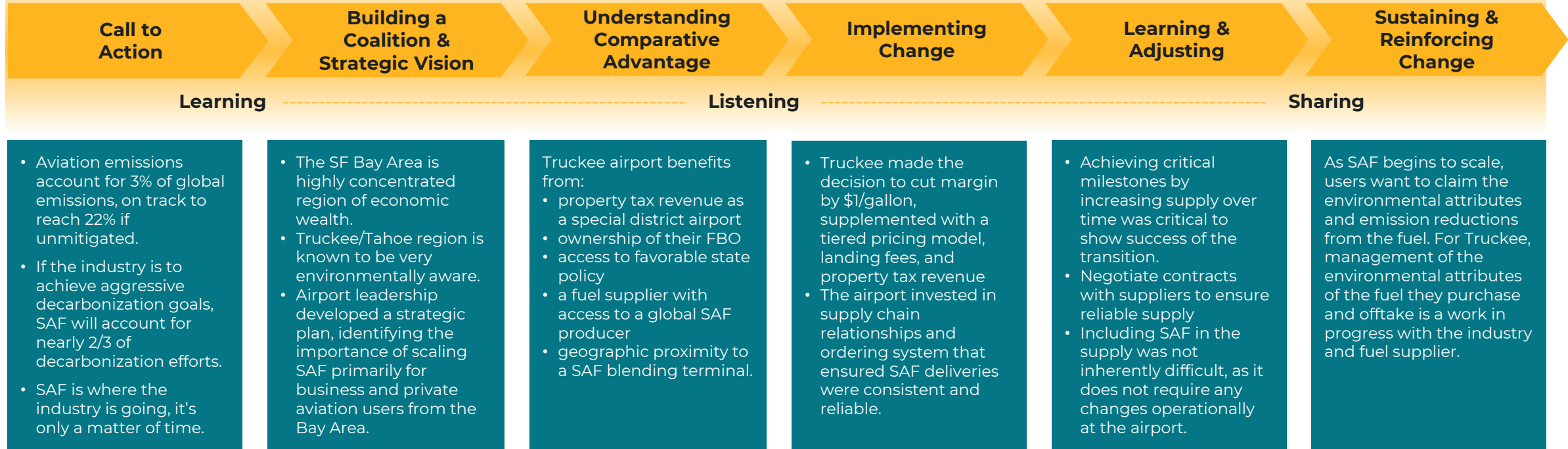


Replicating the SAF strategy

- Make SAF a business decision
- Investigate with an RFP for fuel supply
- Advocate for your airport
- Communicate with supplier and users
- Price creatively
- Offer verification and reporting of impact

Truckee Tahoe Airport: SAF Transition Case Study

Journey to Offering ONLY a SAF Blend



Effective communication throughout the journey is critical: learning how to approach the transition, listening and engaging stakeholders to understand the change experience, and sharing learnings and impacts. Communicating with private aviation users was critical, particularly at the start of Truckee's transition, but also during price experimentation. Today, now that SAF is more mainstream, one on one education is less necessary, as the benefit of the product is more widely known, and messaging can shift to the benefits and helping others pursue a SAF transition.

<p>SAF is the only near-term solution</p> <p>SAF can have impact today and will have an outsized role in decarbonization as the industry shifts.</p>	<p>Value of a strategic plan</p> <p>Once SAF is included in the airports strategic plan, prioritizing the transition is met with less resistance.</p>	<p>Find your advantage</p> <p>As state policies expand, investment continues and supply increases. GA airports will remain critical in scaling SAF.</p>	<p>Price creatively</p> <p>Implementing landing fees, tiering pricing models, and other creative changes can bring SAF to a competitive price today.</p>	<p>Drop-in benefits</p> <p>As a drop-in replacement, it utilizes existing aircraft and airport infrastructure. Understanding logistical ease of the transition is important.</p>	<p>Certified and reliable</p> <p>Emission reductions must be quantified and reported with integrity. Trusted systems enable scale and can provide additional revenue.</p>
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Q&A