



Advanced Biofuels Canada
Biocarburants avancés Canada

Sustainable Aviation Fuels; The international regulatory battles and what works best for Canada

August 2023

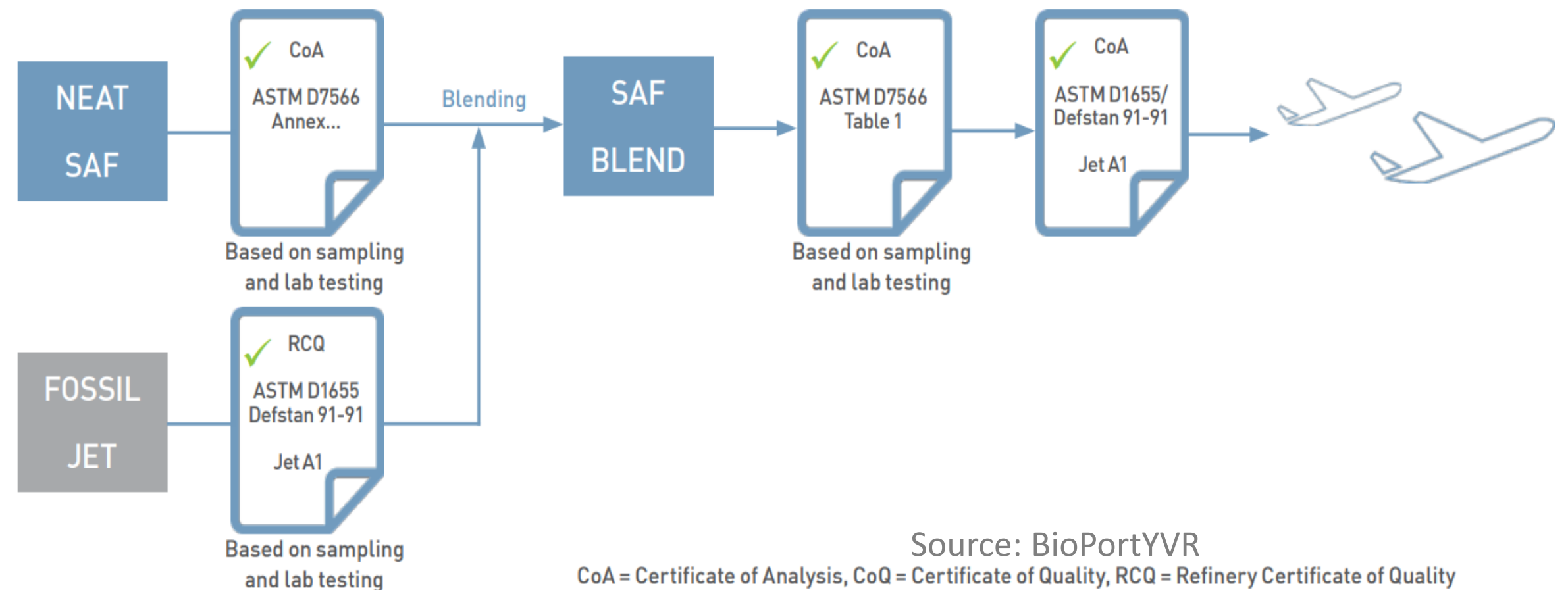
November 7, 2023

SAF 101:

Sustainable Aviation Fuel (SAF) is defined as a certified, drop-in, distillate fuel that satisfies jet fuel form, fit, and function requirements, while meeting sustainability standards applicable in the relevant jurisdiction



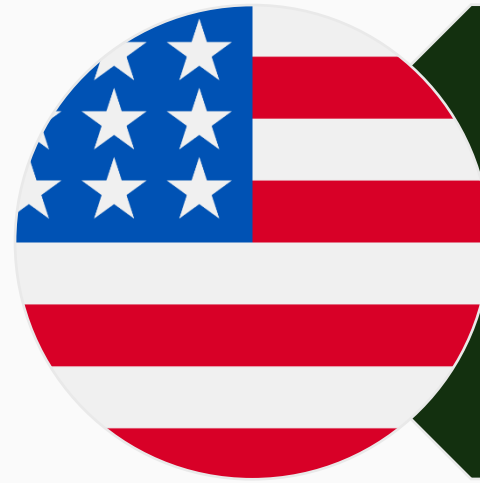
- ▶ ASTM D7566 is the specification for jet fuel containing synthetic hydrocarbons, with Annexes specific for neat SAF (i.e. HEFA). SAF fuel must be blended with conventional jet fuel; the blend rate varies from 10% to 50% depending on the type of SAF.
- ▶ Blended SAF meets the same specifications as conventional jet fuel (ASTM D1655).



SAF Regulatory & Policy Battles



Work in Progress



IRA 45Z Values:

US\$1.75 vs US \$1.00 maximum (SAF vs Everyone)

LCA Conflict: CORSIA vs GREET



Crop-based ineligibility

Large bet on eFuels/PTL

Airport-Specific requirements or Book & Claim

Work in Progress



IRA response fundamental

Provincial action (Volumetric & CI?)

Considering approaches to achieve the Action Plan goal of 10% by 2030?

Overview of Perspective

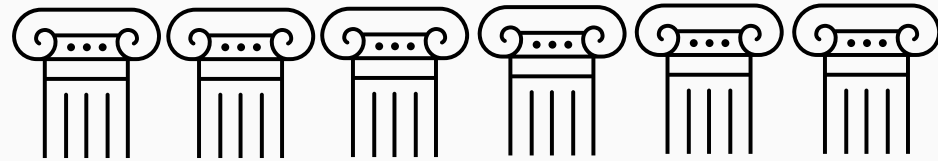


- ABFC's SAF Caucus represents a SAF producer perspective, which recognizes that:
- There has never been a more enthusiastic and committed end-use sector than commercial aviation
- There are no insurmountable technical barriers to Low Carbon Jet Fuel 'SAF' use
- No liquid transportation fuel (e.g., gasoline, diesel) has decarbonized without regulation of the fuel supply system that makes room for new fuels
- Canadian regulations (federal & provincial) have in place the necessary structures to incorporate aviation (e.g., compliance credit markets, Land Use & Biodiversity criteria, established LCA models, etc.)

What works best for Canada?



Scaled & viable SAF production capacity w/ GHG Redux



Commercial feedstock supply

Yes, via Domestic Crush Expansion & Technology Progress

Established sustainability

Sufficiently, via CFR Land Use & Biodiversity

Efficient fuel system integration

Advancing

Competitive Financial Conditions

Advancing (does not preclude imports)

Fit For Purpose

Confirmed

Structural demand

The essential requirement

Let's Continue:



Pierre Ruel, Director Strategy and Policy,
Boeing Canada

Geoff Tauvette, Executive Director,
Canadian Council for Sustainable Aviation Fuels





Our Mission

Advanced Biofuels Canada promotes the production and use of advanced biofuels in Canada, cooperates with other stakeholders to expand market access for sustainable low-carbon biofuels in Canada, and collaborates broadly to decarbonize transportation.

