Sustainability of Alternative Jet Fuels
A World Where People and Nature Thrive

- WILDLIFE CONSERVATION
- FRESHWATER
- FOOD
- FORESTS
- CLIMATE
- OCEANS
Opportunity

- Fossil fuels continue to dominate major sectors:
  - ~99.9% aviation
  - ~99.5% maritime
  - ~70% US industrial

- Not everything can be electrified

- Sustainable liquid, solid, gaseous fuels required

- Displacing fossil fuels will cost many Trillions
Why sustainability requirements?

- There is a tension between scaling fast and scaling correctly – we must do both.
- A case study: 1.8 million acres of grasslands were destroyed across the US and Canadian Great Plains in 2020. Major consequences for pollinators, water, and air quality.
- Carbon intensity doesn’t address biodiversity loss, water and soil health, and other ecological priorities.
- Climate and ecosystem health are inseparably linked.

WWF Plowprint Report (2022)
Aviation Fuel: Our approach

Informed policy advances climate mitigation
- International Civil Aviation Organization (ICAO)
- International Coalition for Sustainable Aviation (ICSA) – civil society representation in ICAO
- US national/state policy
  - Inflation Reduction Act
  - Build Back Better
  - Authorizations
  - SAF Grand Challenge
  - State programs

Voluntary/corporate action
- **Ambition**: Science-based targets for civil aviation and business travelers
- **Implementation**: Corporate accounting, market-based mechanisms
Science-Based Targets Initiative (SBTi)

SBTi was founded by WWF, UN Global Compact, WRI, and CDP to support companies by providing guidance, target setting methods and recognition for actions that align with Paris. SBTi Webpage.

WWF led the development of the Science-Based Targets initiative’s (SBTi) “well-below 2°C” aviation pathway.

The pathway provides guidance on how airlines and users of aviation services should set targets aligned with a well-below 2°C ambition. A dozen airlines have made target setting commitments.

An interim 1.5°C pathway is available with a full 1.5°C revision to commence in the future.

SAF must be certified against ICAO Sustainability requirements.