

Aviation

Source Metadata

Field	Value
source	cpi
source_version	GLCF 2025
source_id	CPI-TR-004
sector	Transport
subsector	Aviation
mitigation	Y
adaptation	N
last_checked	2026-05-26

CPI Definition & Scope

Aviation in CPI's GLCF framework tracks climate finance directed at reducing the aviation sector's greenhouse gas emissions. CPI captures investment in sustainable aviation fuels (SAF), electric and hybrid-electric aircraft development, airport energy efficiency, and operational efficiency improvements such as optimized air traffic management. Aviation is a hard-to-abate sector responsible for approximately 2-3% of global CO2 emissions with limited near-term electrification options for long-haul flights.

Subsectors & Examples

- **Sustainable Aviation Fuels (SAF)** — bio-SAF from waste oils, HEFA, alcohol-to-jet, power-to-liquid
- **Electric Aviation** — battery-electric regional aircraft, hybrid-electric propulsion
- **Hydrogen Aviation** — hydrogen combustion and fuel cell aircraft development
- **Airport Decarbonization** — terminal energy efficiency, solar on-site, electric ground support
- **Operational Efficiency** — optimized flight paths, continuous descent approaches, single-engine taxiing

Mitigation & Adaptation Classification

Aviation is classified as **mitigation** in CPI's framework. All tracked investments target emission reductions through fuel substitution, technological innovation, or operational efficiency. Aviation adaptation (e.g., runway heat resistance) is generally not tracked as a distinct climate finance category.

LATAM Relevance

Aviation is important for Latin America given the region's geographic scale and limited rail alternatives for long distances. Colombia's domestic aviation market is the largest in the Andean region, and Bogota's El Dorado airport is exploring SAF blending mandates. Brazil leads regional SAF production with its ethanol-based feedstock advantage. Peru's tourism-dependent economy (Cusco, Machu Picchu) creates incentives for sustainable aviation. Costa Rica's ecotourism brand aligns with aviation sustainability messaging.

Cleantech Taxonomy Crosswalk

Maps to Cleantech Taxonomy sector **TR** (Transport) for aviation. Cross-references with **ES** (Energy Systems) for SAF production and hydrogen supply, and **IN** (Industry) for aircraft manufacturing and supply chain decarbonization.

Revisión #2

Creado 2026-05-27 03:38:42 UTC por Gideon Blaauw

Actualizado 2026-05-27 03:50:04 UTC por Gideon Blaauw