



# A Lower Carbon Footprint in the Air

Since 2005, UPS Airlines has reduced its carbon intensity by 13 percent through strategies focused on our aircraft fleet, aircraft weight, and aviation procedures. We increased oversight of our airline's footprint in 2018 with the creation of the Fuel Analytics and Sustainability Group. Here are a few other ways that we avoided greenhouse gas (GHG) emissions while in flight during 2018.

## DISCRETIONARY FUEL REDUCTIONS

Historical flight plan data enables more accurate fuel requirements, allowing us to grant permission for planes to carry less reserve fuel on international flights, reducing weight and carbon emissions.

GHG Reduced  
**24,300**  
 Metric Tonnes

## JET ENGINE WASHING

Removes particulate matter accumulated during engine operation.

GHG Reduced  
**24,900**  
 Metric Tonnes

## FIRE-RESISTANT CONTAINERS

Enhance safety and weigh less than traditional containers.

GHG Reduced  
**7,700**  
 Metric Tonnes

## "WINGLET" MODIFICATIONS

Reduce drag and increase fuel efficiency by 3.6 percent per flight.

GHG Reduced  
**82,800**  
 Metric Tonnes

## A/C PACK ECO-CONTROL MODULES

Optimize air conditioning packs to reduce cruise fuel burn.

GHG Reduced  
**10,200**  
 Metric Tonnes

## POUNDS OF CO2 PER AVAILABLE TON MILE (ATM)

	2018	2017	2016	2005 BASELINE	2020 GOAL
Lbs CO2/ATM (Nautical Miles)	1.35 (13% reduction)	1.40	1.39	1.54	<b>1.24 (20% reduction)</b>
Lbs CO2/ATM (Statute Miles)	1.17 (13% reduction)	1.22	1.21	1.34	<b>1.08 (20% reduction)</b>

