

# TRAVEL TIPS from



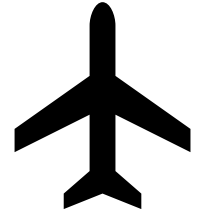
# Agenda

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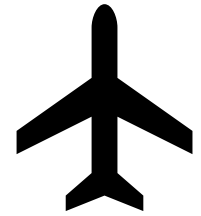
- Carbon Offsetting for Flights
- EV vs. Gas: What Pollutes More?
- Green Transportation
- Vehicle Maintenance
- Speeding, Accelerating and Braking

# Carbon Offsetting For Flights



- Flights account for around 2.5% of global carbon dioxide production at the moment
  - Only 6% of the world's population has ever flown
- Because planes fly high the atmosphere, the greenhouse gases they emit do more damage than on the ground
- Carbon offsets are voluntary schemes where people pay to 'offset' or make up for the emissions their flights produce
  - You could offset anything in your life or your emissions in general

# Carbon Offsetting For Flights



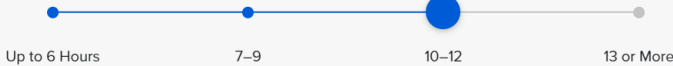
- **Offset Projects:**

- Forestry projects, which either stop existing trees being cut down or plant new ones
- Energy projects, which reduce the amount of fossil fuels used by investing in energy-efficient products or renewable technology
- Factors that change your carbon production: duration of flight, layovers, business vs. economy class, airplane, capacity
- The easiest option is to offset directly with the airline when you book your flight



Select the number of hours for your flight:

# of Trips : 1



[How is this calculated?](#)

CALCULATED TOTAL

**\$14.36**

1 Tonne = \$7.60 USD

OFFSET NOW

[Already know your output?  
Enter your tonnes.](#)

OFFSET YOUR FLIGHT UNITED 

By offsetting your flight, you will retire carbon credits and directly support community-driven activities that protect and restore critical forests around the world.

[← CALCULATE AGAIN](#)

YOUR RESULTS

Here is the footprint of your flight and how you can neutralize your impact on the climate.

DISTANCE FLOWN: 1,530 miles

FUEL EFFICIENCY: 54 MPG


**0.27** = **\$5.00**

tons of carbon dioxide in carbon offsets

OFFSET YOUR FLIGHT

Summary

Estimated reduction: **896 lbs CO<sub>2</sub>e**      Your price: **\$ 5.18**

Southwest Match Contribution 

For every dollar you contribute to help Southwest offset its carbon emissions, we will contribute a dollar to the purchase of additional offsets for Southwest (does not include taxes \$0.00 or fees \$0.40 per PAX).

One way |  Round trip

From

Dallas Love Field (DAL)

To

La Guardia Airport (LGA)

Number of passengers

1

Last year, we became the first carbon neutral airline on a global basis.

We're committed to carbon neutrality from March 2020 onward, balancing our emissions with investments to remove carbon across our global operations.

Our commitment to carbon neutrality is rooted in the idea that our customers shouldn't have to choose between seeing the world and saving the world. We know the value that travel brings to our lives, and we are dedicated to taking the urgent actions necessary to build a more sustainable future for flight.

Over the last month, we've taken another big step forward in our sustainability journey by announcing new, more ambitious targets, accelerating current commitments and building new partnerships to advance toward a future of net-zero aviation.

# EV vs Gas



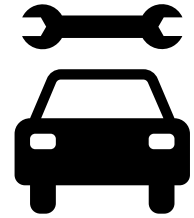
# Green Transportation



Carpooling	Public Transit	Bike Sharing and Rentals
<ul style="list-style-type: none"><li>• Shared Travel Costs</li><li>• Travel Time Savings from High Occupancy Vehicle (HOV) Lanes</li><li>• Improves Road Congestion</li><li>• Improves Community Mobility</li><li>• Reduced GHG Emissions</li></ul>	<ul style="list-style-type: none"><li>• Improves Road Congestion</li><li>• Improves Community Mobility</li><li>• Improves Fuel Efficiency</li><li>• Contributes to Health and Wellness</li><li>• Reduced GHG Emissions</li></ul>	<ul style="list-style-type: none"><li>• Improves Road Congestion</li><li>• Eases Transit Congestion</li><li>• Encourages Bike-Friendly Infrastructures</li><li>• Improves Navigation Skills</li><li>• Contributes to Health and Wellness</li></ul>

Scenario: You are visiting Dallas for the first time. So, you **Carpool** with friends/family to get to a parking garage near a train station. You take the **Public Transit** to different districts in Dallas. Finally, you **Rent a Bike** to explore each district.

# Vehicle Maintenance



- **Tires**

- Maintaining correct air pressure in tires equates to fuel savings. For every 10 psi of under-inflation, a 10% reduction in fuel economy can result, according to NACFE. Improper wheel alignment can rob fuel efficiency by creating rolling resistance and also cause premature tire wear.

- **Brakes**

- Good brakes are most important for safety, but also can impact the drive ability and economy of a vehicle

- **Oil**

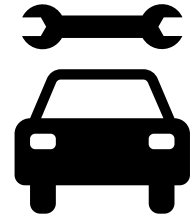
- Use good quality oils, synthetic, if possible, to increase engine life and economy in some cases

- **Air Filter**

- A clogged air filter means the engine is working harder to run, which in turn robs fuel economy

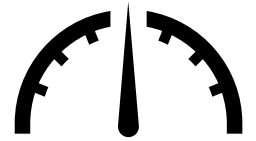


# Vehicle Maintenance



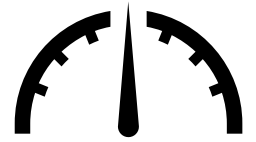
- **Fuel**
  - Always use the recommended fuel octane for your vehicle for best performance. Using a higher than recommended octane may have some benefit in harsh conditions (extreme cold, heat, towing etc.) but has little to no effect during everyday driving
- **Cabin Air Filter**
  - You should have your cabin air filter changed or inspected 12,000 miles or every other time your tires are rotated
- **Battery**
  - A good battery can make all the difference to prevent standing outside waiting on Eric Bratcher to jump off your car
- **Lights**
  - Double check your brake lights, indicators, and head lights when you can

# Speeding, Accelerating, Braking



- Aggressive driving (speeding, rapid acceleration and braking) can lower your gas mileage by roughly 15% to 30% at highway speeds and 10% to 40% in stop-and-go traffic.
- Driver feedback devices can help you drive more efficiently. A recent study suggests that they can help the average driver improve fuel economy by about 3% and that those using them to save fuel can improve gas mileage by about 10%.
- Using cruise control on the highway helps you maintain a constant speed and, in most cases, will save fuel

# Speeding, Accelerating, Braking



- It's no secret that a speeding ticket can cost you money, but the act of speeding can also use gas more quickly. When you drive 80 MPH or faster, you create higher air resistance, decreasing your fuel economy.
- Last but not least, it is time for us to move on from miles per gallon and take a not from our ancestors across the pond. When looking at fuel economy, gallons per 100 miles is a better comparison for fuel economy and has been recognized by the EPA since 2012

# Questions?



# Sources



- <https://youtu.be/1oVrIHcdxjA>
- <https://escholarship.org/content/qt7jx6z631/qt7jx6z631.pdf?t=ph07of>
- <https://www.remix.com/blog/8-benefits-of-public-transportation>
- <https://www.spinlister.com/blog/everything-you-need-to-know-about-the-impact-of-bike-sharing-vs-bike-rental-systems-on-transportation/>
- <https://www.fueleconomy.gov/feg/maintain.jsp>
- <https://www.newgateschool.org/blog/entry/want-your-mpg-10-factors-that-affect-fuel-economy>
- <https://www.popsci.com/technology/gallons-per-100-miles-best-fuel-economy-metric/>
- <https://www.ontheluce.com/carbon-offsetting-flights/>
- <https://mediterranean.observer/international-tourist-numbers-down-83-in-first-quarter/>
- <https://united.conservation.org/>
- <https://www.cooleffect.org/american-airlines>
- <https://www.southwest.com/carbon-offset-program/>
- <https://news.delta.com/update-our-path-net-zero>
- <https://media.giphy.com/media/xUNda8J2UVvxtN3bQA/giphy.gif>