



## **Carbon footprint report**

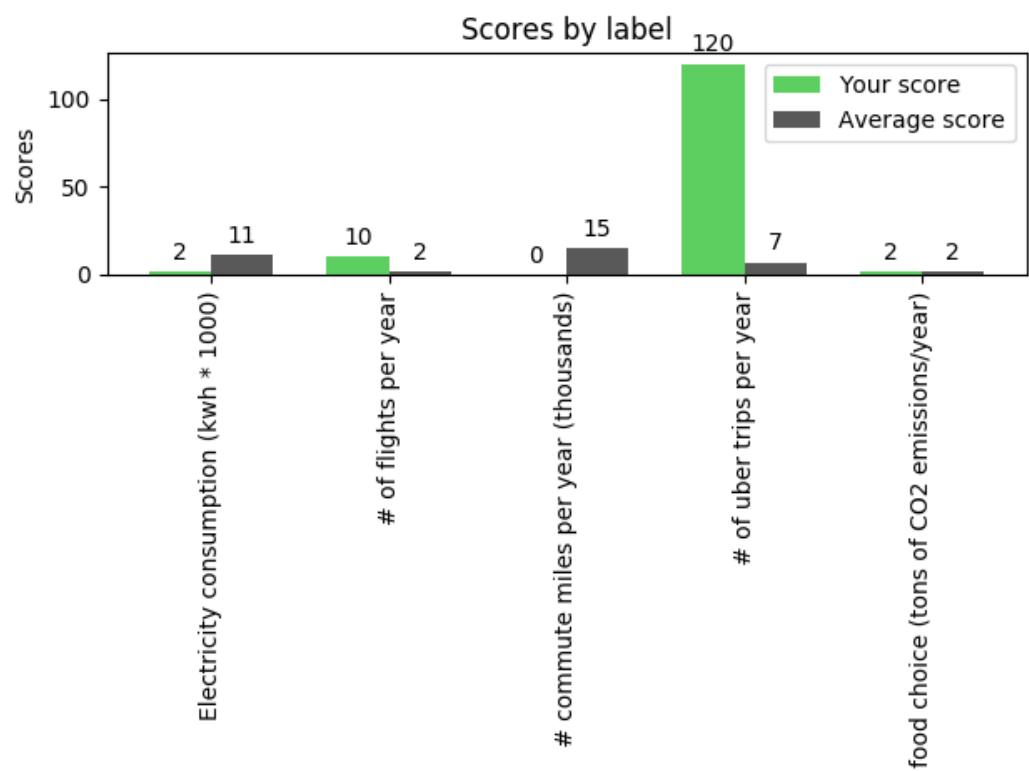
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2019-10-07

Thanks for your interest to help reduce your carbon footprint. This report outlines your overall carbon footprint relative to others in the United States. We hope that this report can inspire you to act to reduce your effect on the climate.



Your carbon consumption relative to the average American (units)



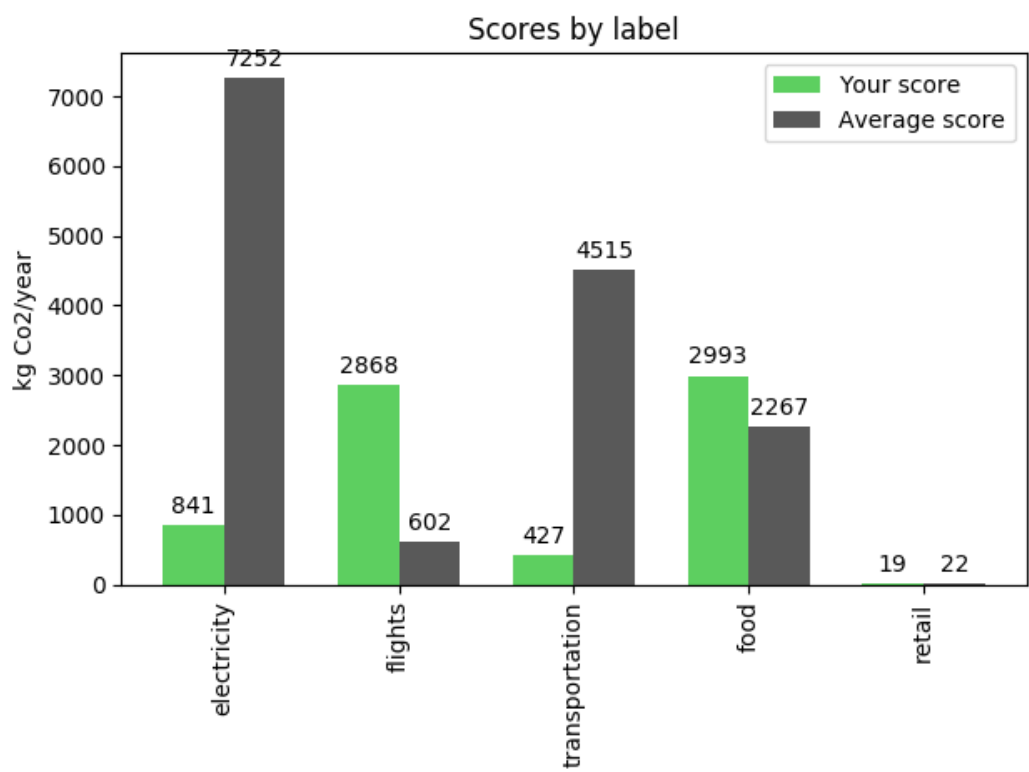
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Your carbon consumption relative to the average American (kg CO2)



Your carbon consumption is -7510.631464672897 kg CO2 less than the average American.

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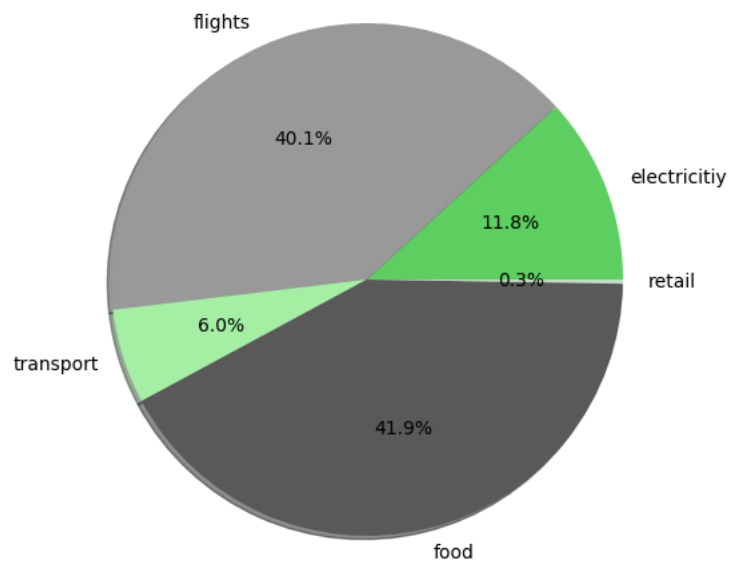


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## Your carbon consumption: by category



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## Here are some recommendations to become a better climate citizen:

ask questions to learn more about climate issues  
carpool with friends to/from work  
collect climate data in the scientific community  
take efforts to clean nature (e.g. like recycling off the street)  
reflect upon being a better climate citizen  
collect and use clean energy (e.g. wind or solar power)  
eat less meat when you can going out  
buy local produce from farmers markets on weekends  
exercise instead of uber to work  
make eco-friendly purchases (e.g. Allbirds shoes instead of Nike shoes)  
participate in climate-related events  
post articles about climate change on social media platforms  
plant trees or take care of plants in your house  
try to recycle and reduce waste when you can  
take fewer flights and/or reduce your own transportation  
turn off your air conditioning unit and use less electricity when you can  
write scientific papers and/or blog posts on climate change issues  
take showers for 5 minutes or less

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## Get involved

- Global Warming of 1.5 degrees C || <https://www.ipcc.ch/sr15/>
- Empowering everyday people to become activists || <https://www.climateRealityproject.org/>
- EU Climate Knowledge and Innovation Community --> <https://www.climate-kic.org/>
- Measure Ecological Footprint || <https://www.footprintnetwork.org/>
- Technical climate solutions || <https://www.drawdown.org/>
- Sustainable textile supply chain || <https://textileexchange.org/>
- Student strike on Fridays || <https://globalclimatestrike.net/>
- Breakthrough Energy Coalition and Ventures || <http://www.b-t.energy/>
- Machine Learning for Climate Change || <https://www.climatechange.ai/>
- NASA: Facts around Climate Change || <https://climate.nasa.gov/evidence/>

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## **Here are some assumptions that went into calculating your carbon footprint**

### **Electricity:**

- Electric bill - 11,698 kwh/year = average energy consumption / household<sup>1</sup>
- the U.S. average is 13.27 cents per kilowatt hour (kwh),<sup>2</sup> 0.62 kilogramCO<sub>2</sub> / kwh<sup>3</sup>
- 11,698 kwh/year \* 0.62 kgCO<sub>2</sub>/kwh = 7,252.76 kg CO<sub>2</sub>/year

### **Flights per year:**

- Flights per year - average is 2.1 trips per American (if fly).<sup>4</sup>
- Assume 0.1304 kgCO<sub>2</sub>/km<sup>5</sup> for medium-term flights (DEFRA model).
- Domestic flights ~2.5-3 hr, 2200km \* 0.1304 kgCO<sub>2</sub>/km \* 2.1 trips = 602.448 kg CO<sub>2</sub>/yr

### **Transportation:**

- Average American drives around 15,000 per year (assume this is all forms of ground transport)<sup>6</sup>
- Fuel efficiency on car - assume 30 mpg on road car now<sup>7</sup>
- 0.960 pounds = 0.435 kg CO<sub>2</sub> per mile (driving) \* 15,000 miles/year = 6,525.0 kg CO<sub>2</sub> / year<sup>8</sup>
- 0.657 pounds = 0.298 kg of CO<sub>2</sub> per mile - 50% public transport, 50% single auto \* 15,000 miles/year = 4470.0 kg CO<sub>2</sub> /year
- 0.354 pounds = 0.161 kg of CO<sub>2</sub> per mile (public transportation) \* 15,000 miles / year = 2,415.0 kg CO<sub>2</sub> / year

### **Uber trips:**

- (14 uber million trips / day \* 0.50)<sup>9</sup> / 325 million people (USA) \* 365 days / year = 7.86 rides/person in the USA (assumes 50% of all uber rides are in the USA).
- Average ride length = 6 miles/trip \* 7.86 trips / person / year \* 0.960 kgCo<sub>2</sub>/mile = 45.27 kg Co<sub>2</sub>/uber rider/year.<sup>10</sup>

### **Food choices / nutrition:<sup>11</sup>**

- 1.7 US tons = 1,542.21406 kilograms of CO<sub>2</sub>/year - vegetarian.
- 2.5 US tons = 2,267.96185 kilograms of CO<sub>2</sub>/year - average.
- 3.3 US tons = 2,993.70964 kilograms of CO<sub>2</sub>/year - meat lover.

### **Amazon supply chain:**

- 0.1289 kg CO<sub>2</sub>e per dollar (USD).<sup>12</sup>
- 3,300,000 boxes/day<sup>13</sup> \* 365 days/year / 325,000,000 Americans = 3.70 boxes/American.
- 3.70 boxes/year \* \$47 / box = ~\$173.90/year \* 0.1289 kg / \$1 USD= 22.41 kg CO<sub>2</sub>/year.

<sup>1</sup> Shrinkthatfootprint.com. <http://shrinkthatfootprint.com/average-household-electricity-consumption>

<sup>2</sup> Chooseenergy.com. <https://www.chooseenergy.com/electricity-rates-by-state/>

<sup>3</sup> Quora. <https://www.quora.com/How-much-CO2-is-produced-per-KWH-of-electricity>

<sup>4</sup> Airlines.org. <http://airlines.org/wp-content/uploads/2016/04/2016Survey.pdf>

<sup>5</sup> Environmental Change Institute <https://www.eci.ox.ac.uk/research/energy/downloads/jardine09-carboninflight.pdf>

<sup>6</sup> Reference.com. <https://www.reference.com/vehicles/average-mileage-put-car-year-5c8f88fa02be73c8>

<sup>7</sup> Wikipedia. [https://en.wikipedia.org/wiki/Corporate\\_average\\_fuel\\_economy](https://en.wikipedia.org/wiki/Corporate_average_fuel_economy)

<sup>8</sup> Transitscreen.com <http://blog.transitscreen.com/how-public-transit-can-and-must-help-reduce-carbon-pollution>

<sup>9</sup> Businesofapps.com <https://www.businesofapps.com/data/uber-statistics/>

<sup>10</sup> Ride.guru. <https://ride.guru/lounge/p/what-is-the-average-trip-distance-for-an-uber-or-lyft-ride>

<sup>11</sup> Shrinkthatfootprint.com <http://shrinkthatfootprint.com/food-carbon-footprint-diet>

<sup>12</sup> AboutAmazon.com <https://sustainability.aboutamazon.com/carbon-footprint>

<sup>13</sup> Quora. <https://www.quora.com/How-many-boxes-does-Amazon-ship-every-day>





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