QAS-compliant calculation methodologies for clear-offset.com

Data source used for emissions factors: 2019 BEIS including WTT uplift where available.

Both business and personal online offset products use the same methodologies for calculation.

Flights

- All distance calculations are made using Great Circle calculations between actual airport lat/ long coordinates
- RFI 1.9 and 8% distance uplift for ATC routings and holding are used by default as recommended by the QAS
- International emissions factors are used which average out the efficiencies achieved on short, medium and long haul flights

Car/ van/ motorcycle

- Uplift of 22% is included to allow for real world conditions as recommended by the QAS.

Commuting

- Our default working year of 220 working days per year is based on 253 minus 8 days of public holidays and 25 days of annual leave

International electricity factors

- International electricity emissions factors are based on the 2018 AIB LCA GWP factors for European countries and Climate Transparency 2018 dataset for non-European countries plus WTT.

Skydiving

- The calculator uses load factors and reported fuel consumption figures from British Parachute Association (BPA) jump schools. The standard AvGas CO2e figures are used, combined with the capacity of the planes and the average reported load factors.

Balloon flights

- Based on 100L LPG and 40 mile retrieval round trip in average diesel van per hour of balloon flight
- Includes adjustment for fuel distribution (WTT)

Offline Business Carbon Footprint 2019 audit tool

- Methodology described under the Definitions tab of the tool itself

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