



(Sources: National Energy Foundation Carbon Calculator, Ofgem, RAC Foundation, Great Circle Mapper)

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CO2 emissions based upon the June 2015 recommended conversion factors provided by Defra and calculated using National Energy Foundation carbon calculator at <http://www.carbon-calculator.org.uk/>

Typical household car usage from 2014 RAC figures

<http://www.racfoundation.org/motoring-faqs/mobility#a18>

2014 average annual UK car mileage = 7,900 miles. Assumes one car per household (2014 RAC figures show 59% of households have only one car, 24% of households have no car and 17% have two cars or over)

7,900 miles at “average UK passenger car” conversion factor = 2,370 KG CO2 emissions

Typical UK annual household gas and electricity consumption from Ofgem 2011 figures

https://www.ofgem.gov.uk/sites/default/files/docs/2011/01/domestic-energy-consump-fig-fs_1.pdf

Typical UK annual household GAS consumption = 16,500 kWh

16,500 kWh at “natural gas” conversion factor = 3,043 KG CO2 emissions

Typical UK annual household ELECTRICITY consumption = 3,300 kWh

3,300 kWh at “average UK grid electricity” conversion factor = 1,525 KG CO2 emissions

Flight distances calculated using:

<http://www.greatcirclemapper.net/en/great-circle-mapper.html>

Nautical Miles converted to miles using conversion factor of 1.1508 mile per nautical mile. Distance multiplied by 2 to give return flight distance and multiplied by 4 to give figure for family of 4.

London Heathrow to Majorca, Spain: 728 nm = 838 miles

$838 \times 2 \times 4 = 6,704$ passenger miles

6,704 passenger miles at “average default flight” conversion factor = **1,797 KG CO2 emissions**

London Heathrow to Cairo, Egypt: 1909 nm = 2196 miles

$2196 \times 2 \times 4 = 17,568$ passenger miles

17,568 passenger miles at “average default flight” conversion factor = **4,708 KG CO2 emissions**

London Heathrow to Orlando, US: 6768 nm = 7,788 miles

$7,788 \times 2 \times 4 = 62,304$ passenger miles

62,304 miles at “long haul, premium economy” conversion factor = **21,993 KG CO2 emissions**

London Heathrow to Sydney, Australia: 9188 nm = 10,573 miles

$10,573 \times 2 \times 4 = 84,584$ passenger miles

84,584 passenger miles at “long haul, premium economy” conversion factor = **29,858 KG CO2 emissions**