|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Vehicle**  Assumptions | **Distance (km)** | **Calculation principles & emission factor** | **Emissions (kg CO2)** | **Source** |
| **2020 travels** |  |  |  |  |
| **Bicycle**  assumed zero emissions/km | **108** | - | - | - |
| **Horse**  assumed zero emissions/km | **18** | - | - | - |
| **Kayak**  assumed zero emissions/km | **46** | - | - | - |
| **Train**  InterCity train at 40% capacity | **929** | 0.054 kWh/pkm = 50,166 kWh @  153 gCO2/kWh | 7,7 | [Lipasto](http://lipasto.vtt.fi/yksikkopaastot/henkiloliikenne/raideliikenne/intercitysahko.htm);  [Autokalkulaattori](https://www.ilmastopaneeli.fi/autokalkulaattori/) |
| **Small electric vehicle with petrol range extender tank,** assumed 27% driving in city, only on electricity, avg. occupancy 1.7 | **1289,7** | 0.1 kWh/pkm =  128,97 kWh @  153 gCO2/kWh | 19,7 | [Lipasto](http://lipasto.vtt.fi/yksikkopaastot/henkiloliikenne/tieliikenne/henkiloautot/habens.htm); [Autokalkulaattori](https://www.ilmastopaneeli.fi/autokalkulaattori/) |
| **Large plug-in hybrid** assumed to run only on petrol, 7l/100km, 3 passengers | **434,1** | 30.387 l petrol @  3003 gCO2/l  for 3 people | 30,4 | [Autokalkulaattori](https://www.ilmastopaneeli.fi/autokalkulaattori/) |
| **Petrol-fuelled medium sedan**  assumed 5l/100km, 2 passengers | **433,8** | 21.69 l petrol @  3003 gCO2/l  for 2 people | 32,6 | [Autokalkulaattori](https://www.ilmastopaneeli.fi/autokalkulaattori/) |
| **Bus**  average 2016 city bus model, 62% capacity, 18 passengers | **46,2** | 53 gCO2/pkm | 2,4 | [Lipasto](http://lipasto.vtt.fi/yksikkopaastot/henkiloliikenne/tieliikenne/linja-autot/bussilinjaautokeskimaarin.htm) |
| **Motor boat**  Owner’s estimation of fuel use with 2 person load | **6** | 4 l petrol @  3003 gCO2/l | 12,0 | [Autokalkulaattori](https://www.ilmastopaneeli.fi/autokalkulaattori/) |
| **Small diesel cruise ship**  Assumed fuel use 70 l/h, 1h trip, 20 passengers | **14,9** | 70 l diesel @  3439 gCO2/l  for 20 people | 12,0 | [Saimaa UAS](https://www.theseus.fi/bitstream/handle/10024/41137/Hybridiveneiden_tekniikan_esiselvitys_24-2--2012.pdf?sequence=1&isAllowed=y);  [Autokalkulaattori](https://www.ilmastopaneeli.fi/autokalkulaattori/) |
| **Total** | **3311 km** |  | **117 kg CO2** |  |
|  | | | | |
| **2019 flights** | **Dist. (km)** | **ICAO, kg CO2** | **Atmosfair, kg CO2** | **Source** |
| HEL - PARIISI – HEL | 3892 | 350 | 612 | [ICAO](https://www.icao.int/environmental-protection/CarbonOffset/Pages/default.aspx) |
| HEL - LHR + NCL - LHR - HEL | 4246 | 587,9 | 711 | [Atmosfair](https://co2offset.atmosfair.de/co2offset#/) |
| **Total** | **8138 km** | **938 kg CO2** | **1323 kg CO2** |  |
|  | | | | |
| **2018 flights** | **Dist. (km)** | **ICAO, kg CO2** | **Atmosfair, kg CO2** | **Source** |
| HEL - ARN - EDI - ARN - HEL | 3632 | 405,7 | 842 | As above |
| **Total** | **3632 km** | **406 kg CO2** | **842 kg CO2** |  |