

Data sources for the infographic on the carbon emissions intensity of driving electric and petrol vehicles:

Emissions intensity of electricity generation

- UK: 2016 full year data (270 gCO₂/km) from: <http://electricinsights.co.uk/#/reports/report-2017-q3/detail/the-low-carbon-electricity-league-table>
- USA and China: Projections for 2017 (USA 480 gCO₂/kWh, China 650 gCO₂/kWh) from Climate Works' Carbon Transparency Initiative projections, available at: <http://cti.climateworks.org/sectors/?Sector=Power&Subsector=All>
- Transmission and distribution losses assumed at 6% (as for USA, China and EU, from <http://cti.climateworks.org/sectors/?Sector=Power&Subsector=All>)
- Electric vehicle charging losses assumed at 4%.

1. Efficiency of electric vehicles

- BMW i3 4.9 miles / kWh
- Nissan Leaf 4.1 miles / kWh
- Tesla Model S (average of models with > 300km range) 3.2 miles / kWh, using data from: <http://carfueldata.direct.gov.uk/search-by-fuel-economy.aspx>

2. Details of best selling petrol cars in UK, USA and China

- UK: Ford Fiesta, from: <http://www.autoexpress.co.uk/best-cars/94280/best-selling-cars-in-the-uk-2017>, assume 1.1 litre, Ti-VCT 70 PS manual at 101 gCO₂/km, from: <http://www.nextgreencar.com/emissions/make-model/ford/fiesta/>
- USA: Toyota Camry, from: <http://www.goodcarbadcar.net/2016/07/june-2016-usa-best-selling-cars-sales-figures/>, assume 2.4 litre, 5 speed manual at 206 gCO₂/km, from: <http://www.nextgreencar.com/emissions-calculator/toyota/camry/>
- China, Wuling Hongguang, from: http://www.chinadaily.com.cn/bizchina/motoring/2017-01/25/content_28048518_10.htm, assume same emissions intensity as Chevrolet Spin (a similar sized car also produced by General Motors which uses many of the same engines), 1.5 AT LT at 140 gCO₂/km, from: <https://www.autodeal.com.ph/cars/compare/chevrolet+spin+1-3-mt-ltz+vs+chevrolet+spin+1-5-at-ltz+vs+toyota+avanza+1-5-g-at-1207>