Thame Drive Electric

How do "whole of life" emissions compare?

Total Greenhouse Gas emissions for EV and Petrol vehicles in Europe

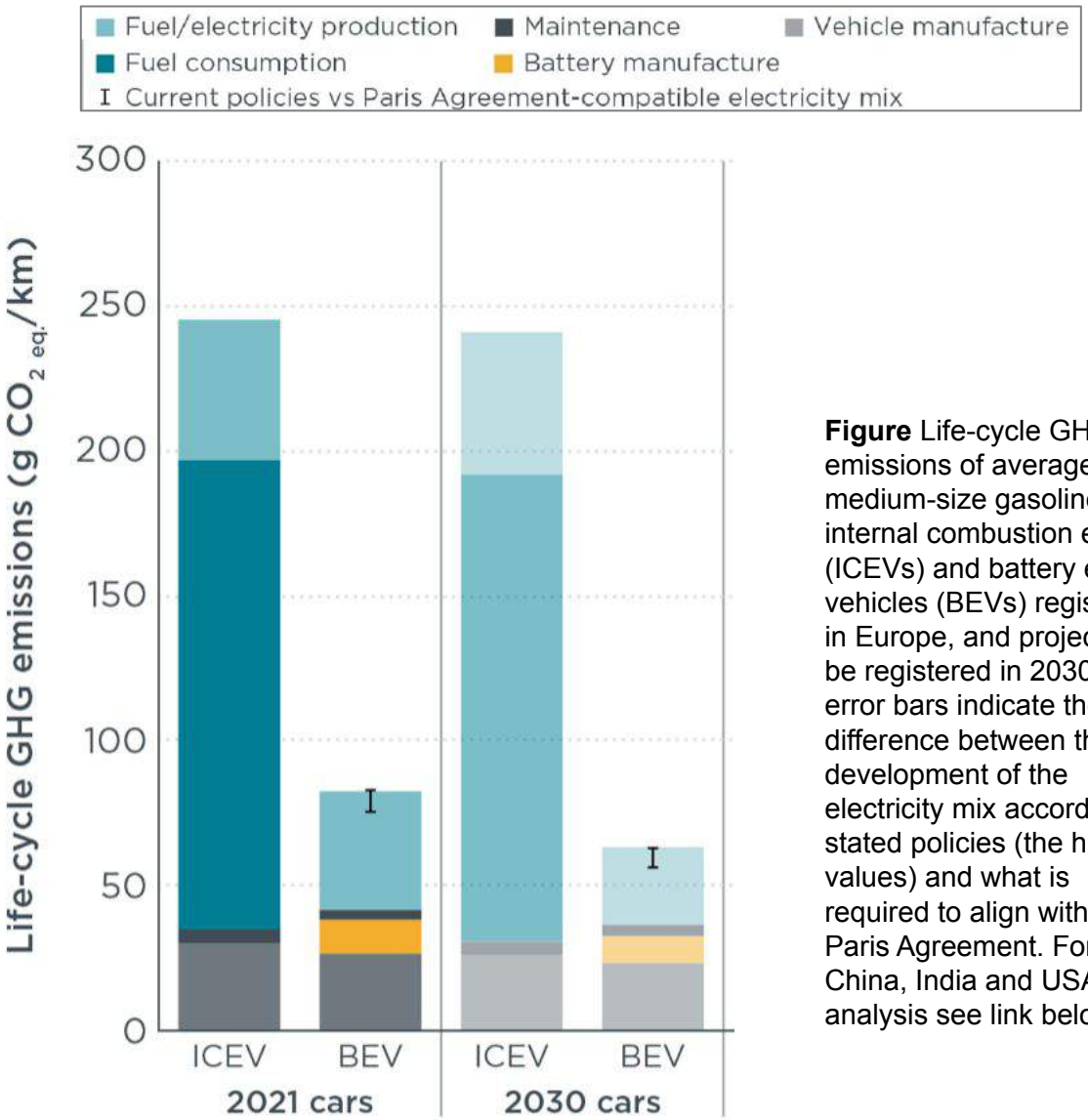

Figure Life-cycle GHG emissions of average medium-size gasoline internal combustion engine (ICEVs) and battery electric vehicles (BEVs) registered in Europe, and projected to be registered in 2030. The error bars indicate the difference between the development of the electricity mix according to stated policies (the higher values) and what is required to align with the Paris Agreement. For China, India and USA, analysis see link below.

Considering whole of life, EVs result in lower Greenhouse Gas emissions than comparable Petrol vehicles by 65% in Europe.

Even for cars registered today, battery electric vehicles (BEVs) have by far the lowest life-cycle GHG emissions. Analysis shows this should improve further by 2030.

Source including USA, China and India is at:
https://theicct.org/publications/global-LCA-passenger-cars-jul2021