Global Energy Policy Research | GEPR

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?????(EV)?????????????

?? ?? · Monday, November 8th, 2021

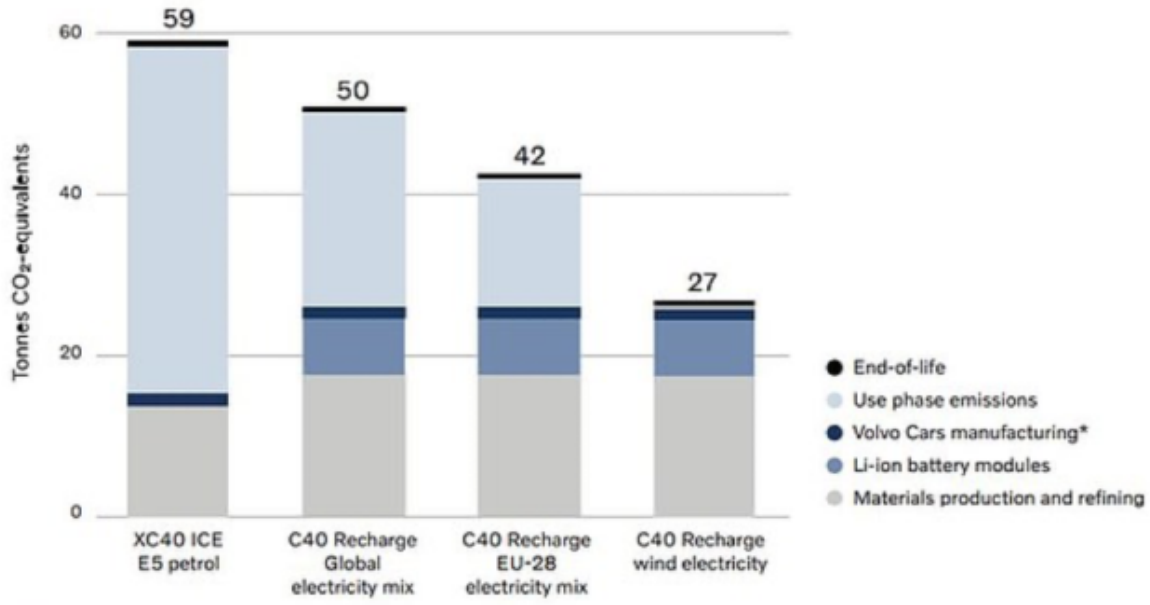


??????????????????C40????????CO2????????????????

???????CO2??????????????????????????????????CO2??????

?1???????????20???????CO2???????????????????(ICE)??????EV???C40????????????????????????????
?(Global electricity mix)?EU??(EU electricity mix)????????????(wind electricity)?????????

EV????(Matrials..???Li-ion battery..)?CO2????ICE??????????????????



** Volvo Cars manufacturing includes both factories as well as inbound and outbound logistics.*

Figure ii. Carbon footprint for C40 Recharge and XC40 ICE, with different electricity mixes.
Results are shown in tonnes CO_2-equivalents per functional unit (200,000km total distance, rounded values).

? 2
?CO2?????????????????????????EV?????CO2??????????CO2??????ICE?????????????????????????
?????49000???EU???77000?????????110000?????????

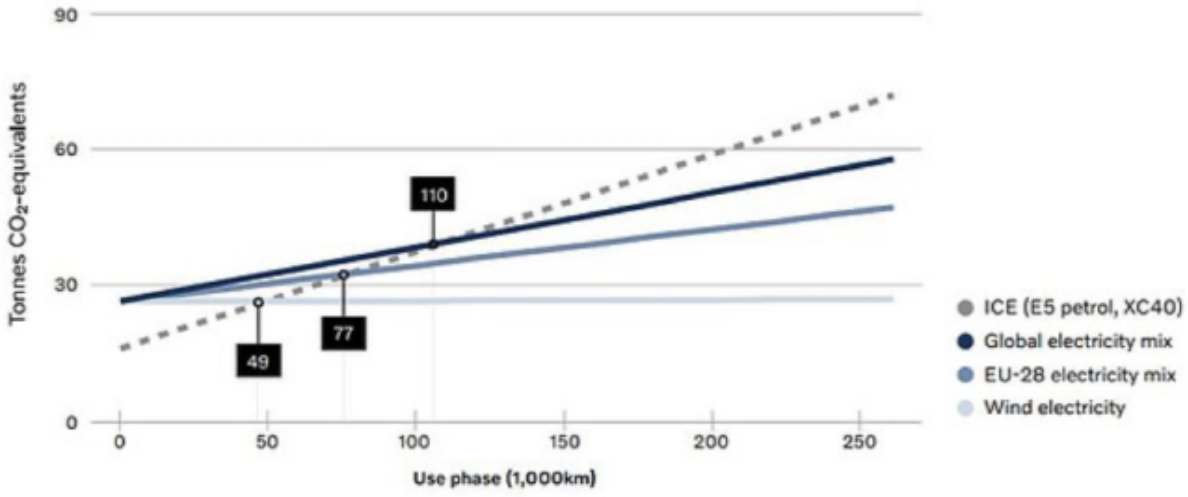


Figure iii. Break-even diagram: *Total amount of GHG emissions, depending on total kilometres driven, from XC40 ICE (dashed line) and C40 Recharge (with different electricity mixes in the use phase). Where the lines cross, break-even between the two vehicles occurs. All life cycle phases except use phase are summarized and set as the starting point for each line at zero distance.*

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EV??

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EV???

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