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Material matters: body, forming and process transformation

Jonas Adolfsson | Business Development Mobility

SSAB

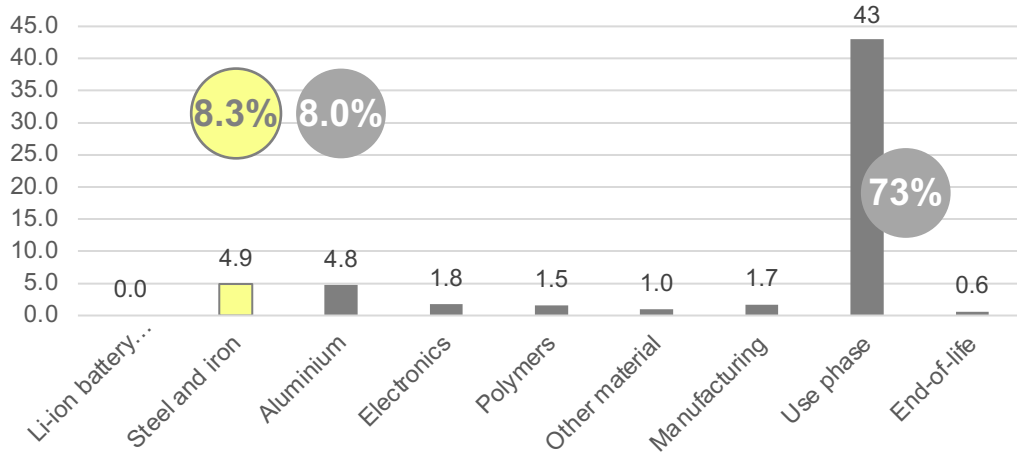
Petrol car vs. electric



Volvo XC40 (2021) with Petrol E5



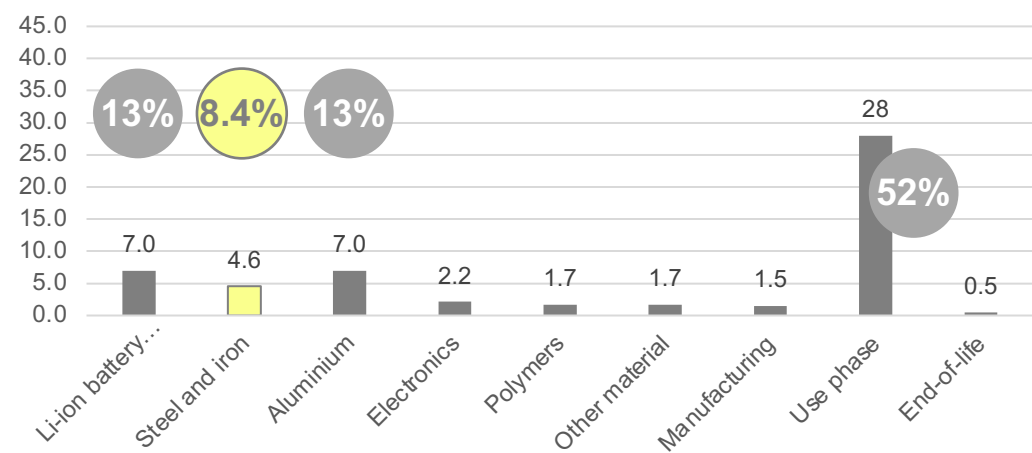
59 tonnes CO₂e per 200,000 km lifetime range



Volvo XC40 Recharge (2021) with Global electricity mix



54 tonnes CO₂e per 200,000 km lifetime range



Reflection: BEV with global electricity mix almost as bad as petrol (-9%)

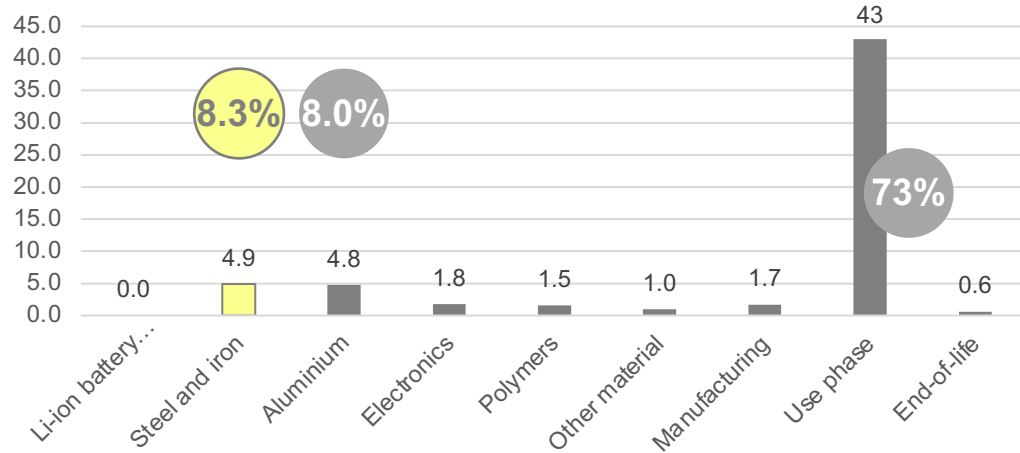
Petrol car vs. electric



Volvo XC40 (2021) with Petrol E5



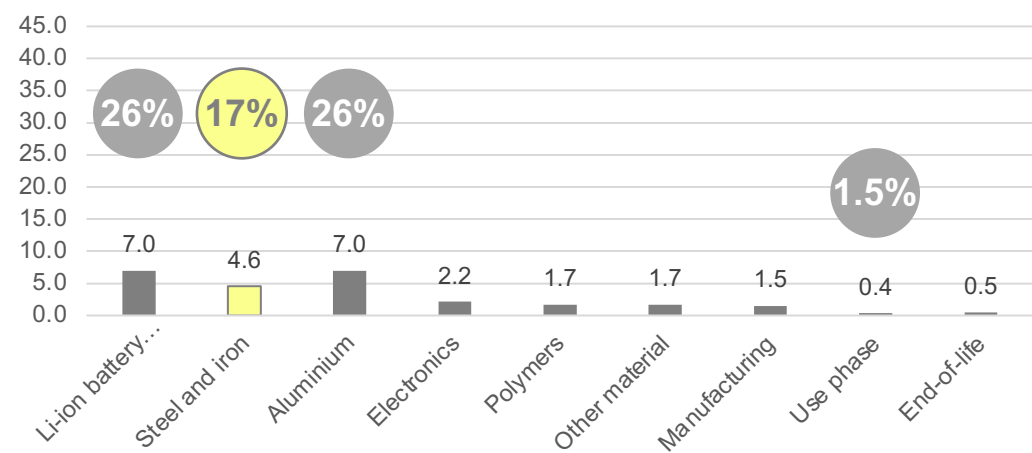
59 tonnes CO₂e
per 200,000 km lifetime range



Volvo XC40 Recharge (2021) with Wind mix

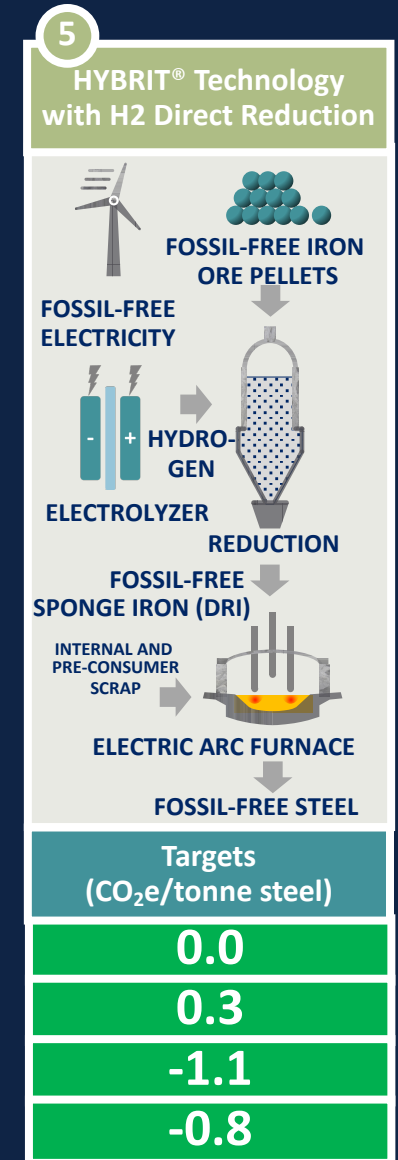
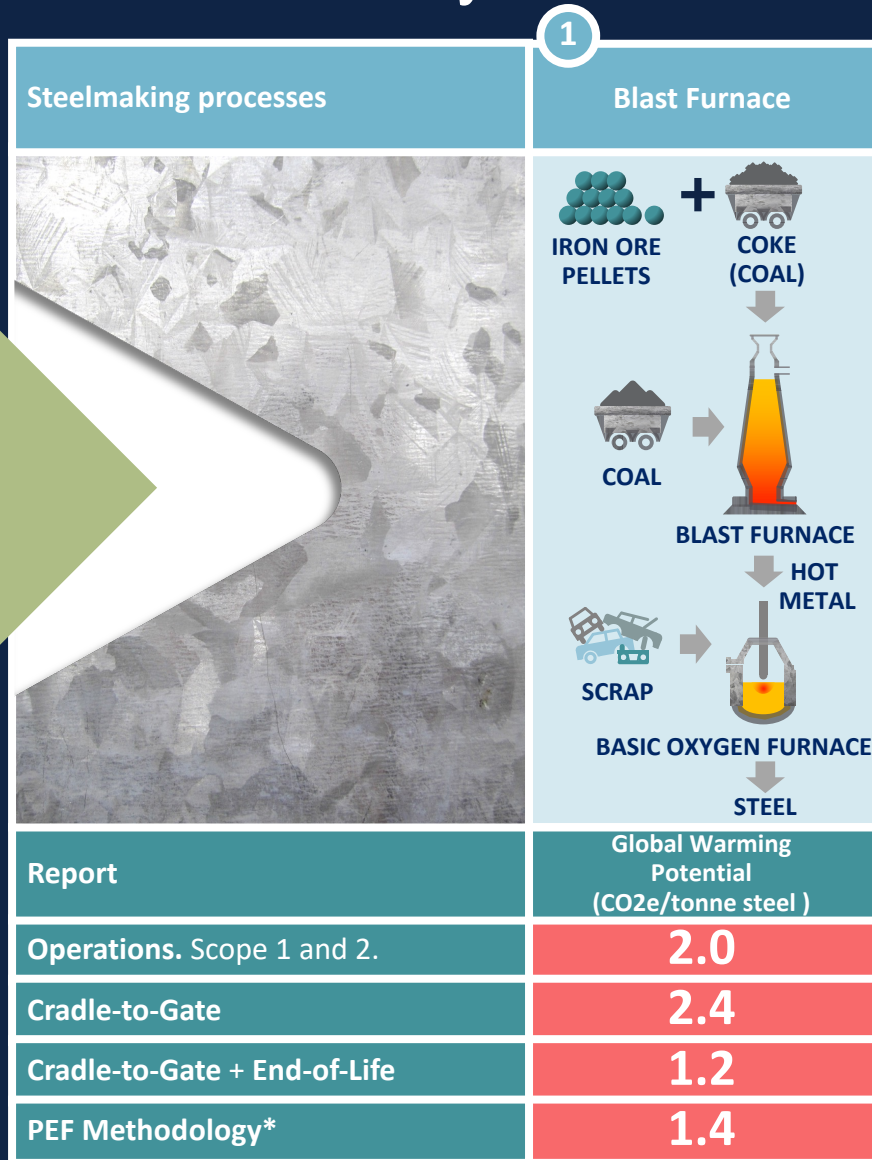


26 tonnes CO₂e
per 200,000 km lifetime range



Reflection: Materials becomes important for a BEV with renewable electricity

CO2 emission values today and in the future



Sources: World Steel Association, SSAB. *) Product Environmental Footprint (PEF) with Circular Footprint Formula (CFF).

Reduced tailpipe emissions → More focus on embedded CO₂e

