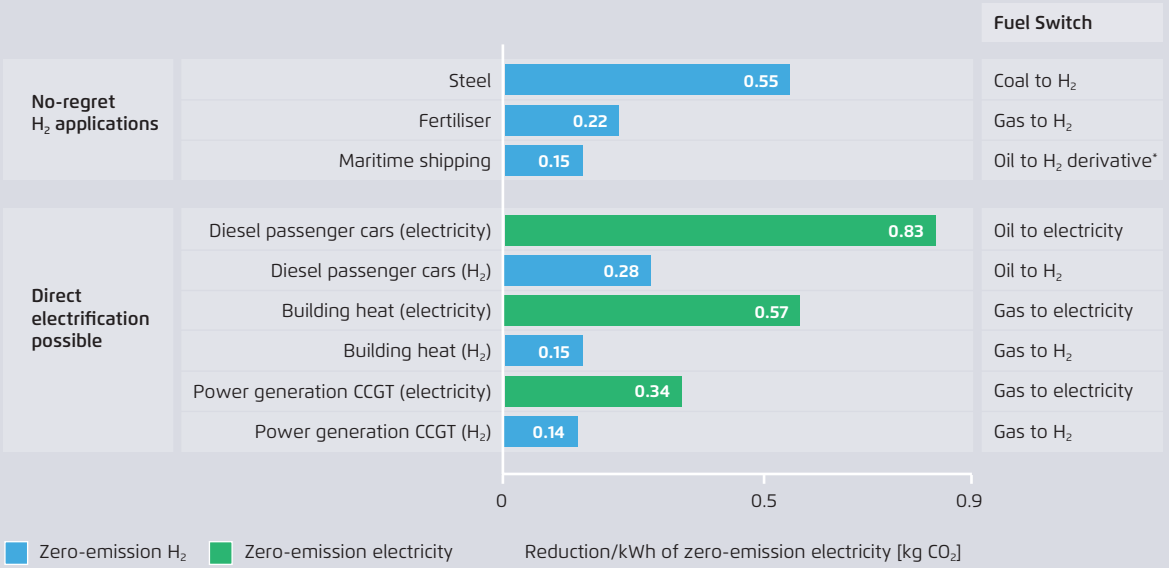
No-regret $H_2$ use: steel has the highest $CO_2$ mitigation potential compared to various other $H_2$ applications

Figure 24




Agora Industry and Wuppertal Institute (2023) based on concept developed by RMI (2022) and authors' calculations in Agora Energiewende (2023). Note: We assume 2.1 t $CO_2$/t of crude steel for a world average conventional BF-BOF plant and an electricity requirement of 3.84 MWh/t of crude steel for the DRI-EAF route that runs on 100% renewable $H_2$. *For maritime shipping based on RMI 2022, we assumed that ammonia replaces heavy fuel oil in a 39% efficient internal combustion engine. All other assumptions are retrieved from Agora Energiewende (2023).