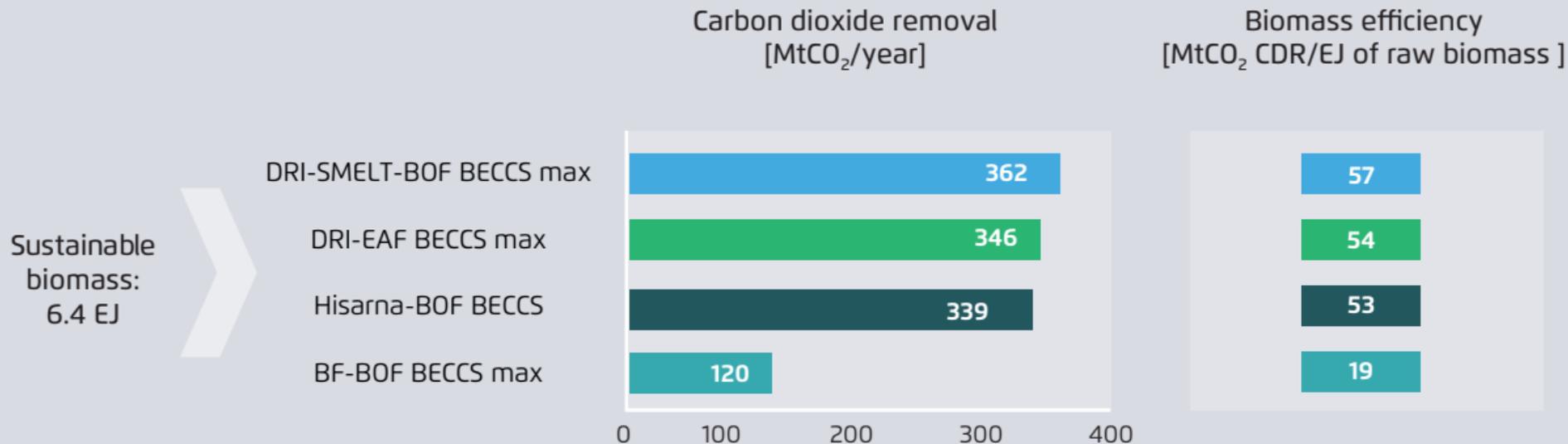


Carbon dioxide removal potential of various BECCS technologies in the steel sector for 6.4 EJ of sustainable primary biomass use

Figure 16



Agora Industry and Wuppertal Institute (2023). The potentials of this figure are theoretical max. potentials that may be difficult to be fully achieved in reality. They assume that the biomass has zero lifecycle emissions. A biomass to biochar conversion efficiency of 60% was assumed for the Hisarna and BF-BOF BECCS routes. The potentials are non-cumulative as they illustrate the BECCS potential, if all biomass was used in one route. Based on a literature review including ETC 2021, IEA 2021 and IRENA 2022b, we assume that 64 EJ of sustainable raw biomass may be available by 2050 and that the steel sector uses up to 10% of this biomass.