Comparing the TRL of breakthrough technologies and blast furnace reinvestment cycles

Figure 2

Expected market readiness of selected breakthrough technologies

- NZE-scrap-EAF
- H₂-DRI-EAF
- H₂-DRI-SMELT-BOF
- NG-DRI-CCS
- BF-BOF-CCS
- Hlsarna-CCS
- MOE
- AEL

Reinvestment cycles for current global blast furnace fleet – status quo

- Blast furnace capacity reaching end-of-life [Mt]

Agora Industry and Wuppertal Institute (2024). Note: ¹ DRI plants running on natural gas can already blend high shares of H₂. Commercial DRI plants running on 100% H₂ are expected by 2025. ² It is currently not clear what the TRL of the technology is and whether it is actively being developed further.