



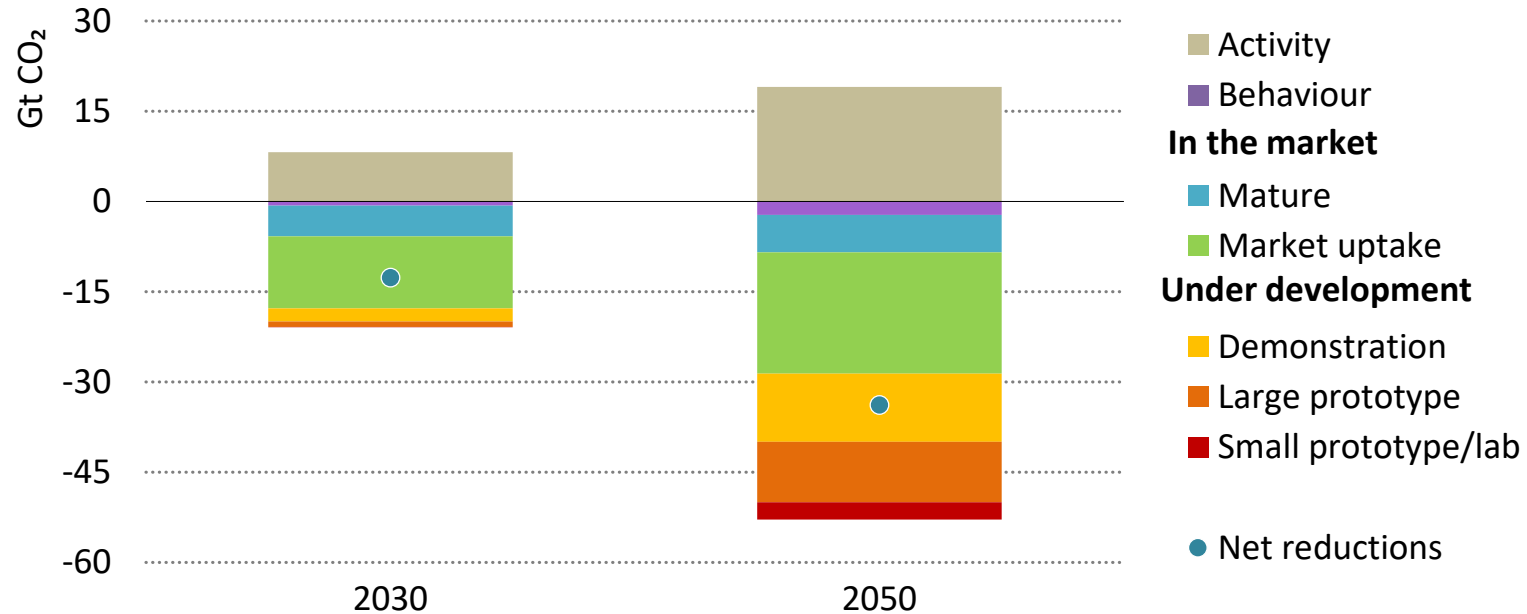
# Clean energy innovation for net zero

Working-level dialogue on commercializing clean energy innovations, 30 September 2021

Araceli Fernandez, Head of Technology Innovation Unit

# Clean energy innovation is an indispensable pillar for net zero

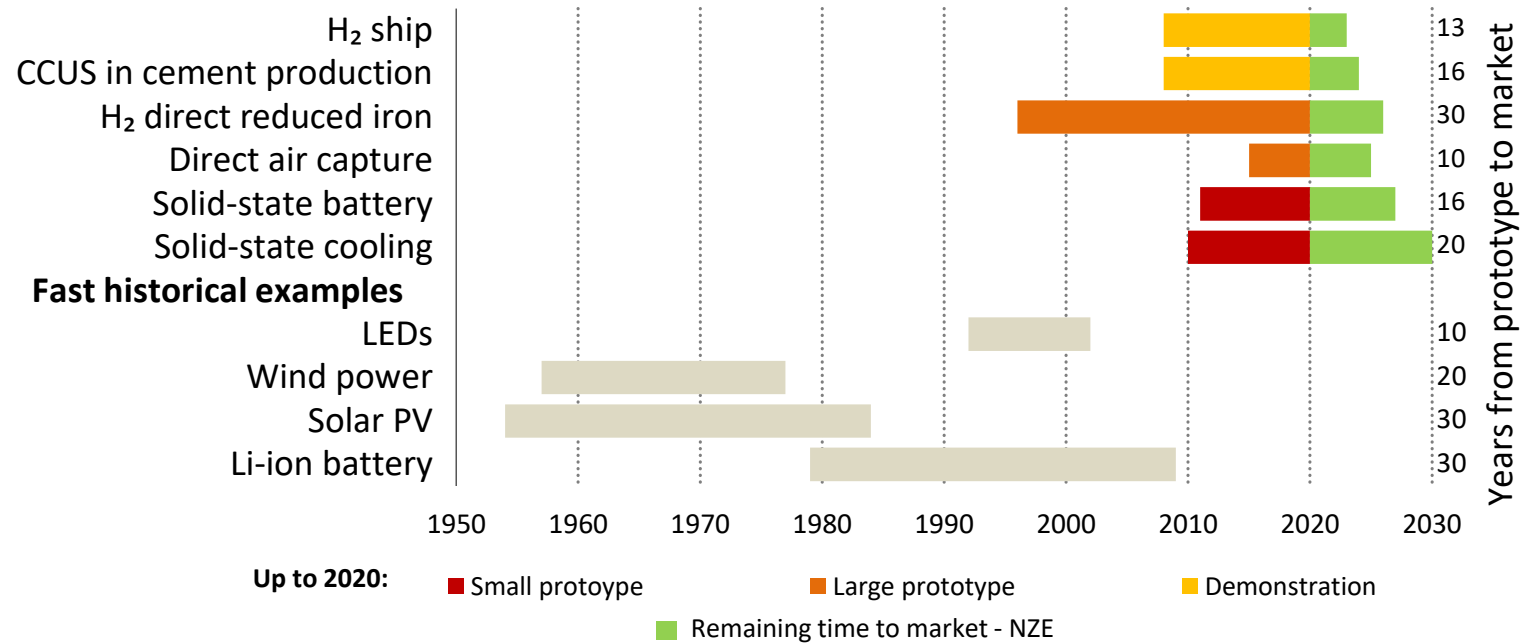
Global CO<sub>2</sub> emissions changes by technology maturity category in the net zero emissions by 2050 scenario



**While the emissions reductions in 2030 mostly rely on technologies on the market, those under development today account for almost half of the emissions reductions in 2050**

# Building on the past to find new ways to innovate through enhanced international collaboration

Time from first prototype to market introduction for selected technologies in the net zero scenario and historical examples



**Technology development cycles would need to be 20% more rapid on average than the fastest past developments. USD 90 bn would need to be mobilised for demonstration projects to 2030 compared to around USD 25 bn currently budgeted by governments.**

**iea**