

Supplementary Materials

Table S1. Keywords used for data and information search

Subsection	Keywords
3.1 Material requirement	Material footprint + energy technology Material requirement + energy technology Material requirement + solar Material requirement + wind Material requirement + nuclear Material requirement + geothermal Material requirement + hydrogen Material requirement + hydropower
3.2 Present and future energy availability	Levelized cost + energy LCOE + energy LCOE + solar LCOE + wind LCOE + nuclear LCOE + hydrogen LCOE + hydropower LCOE + geothermal Forecasted + LCOE LCOE + 2050
3.3 Air pollution and accidents with health implications	Carbon dioxide emissions by fuel or industry Life cycle CO ₂ emissions + energy Air pollution + mortality + energy Accidents + mortality + energy