



**Supplementary Fig. S1. Temporal trends in the predicted energy production and and economic output.** Temporal trends in the efficiency of producing renewable energy (a), efficiency of producing fossil fuel (b), efficiency of producing the non-energy product (c), energy-use efficiency (d), production of non-energy products (e), production of fossil fuel (f), production of total energy (g), production of renewable energy (h), and economic output (i) when initiating a strong incentive for mitigation in a specific year between 2025 and 2075. The solid line denotes the median, while the shading denotes the inter-quartile range in the Monte Carlo simulations.