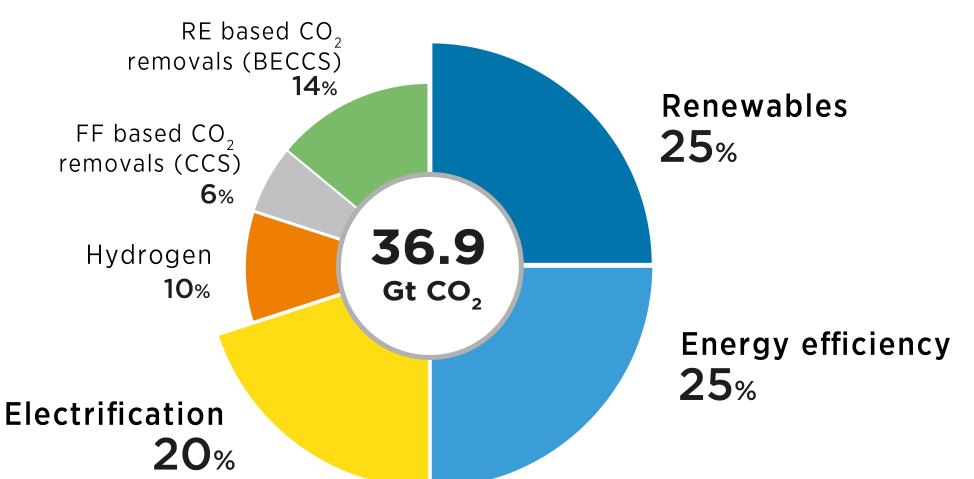




Fast-Track Energy Transitions Pathways to Win the Race to Zero and Emerging Information Needs

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Six components of the energy transition strategy

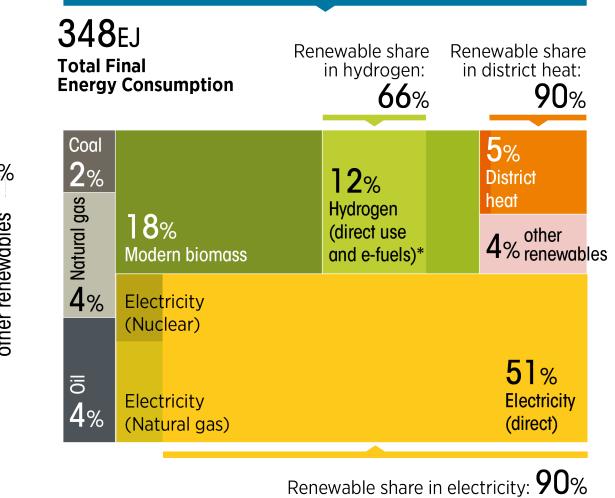
90% of all decarbonisation in 2050 will involve renewable energy through direct supply of low-cost power, efficiency, electrification, bioenergy with CCS and green hydrogen.



Electricity becomes the main energy carrier in 2050

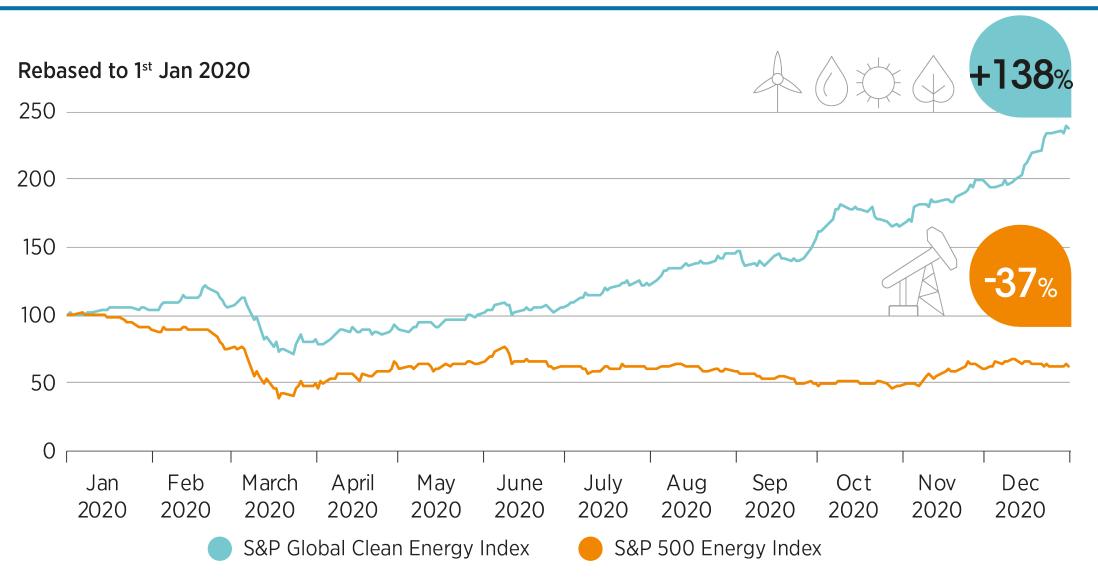
2018 **378**EJ Renewable share 9% **Total Final Energy Consumption** TFEC (%) 3% District heat 3% Modern biomass 0.5% 11% 16% Natural gas 8% other renewables Coal Natural gas Traditional biomass 21% Oil 37% Electricity Oil (direct)

2050 - Where we need to be (1.5-S)



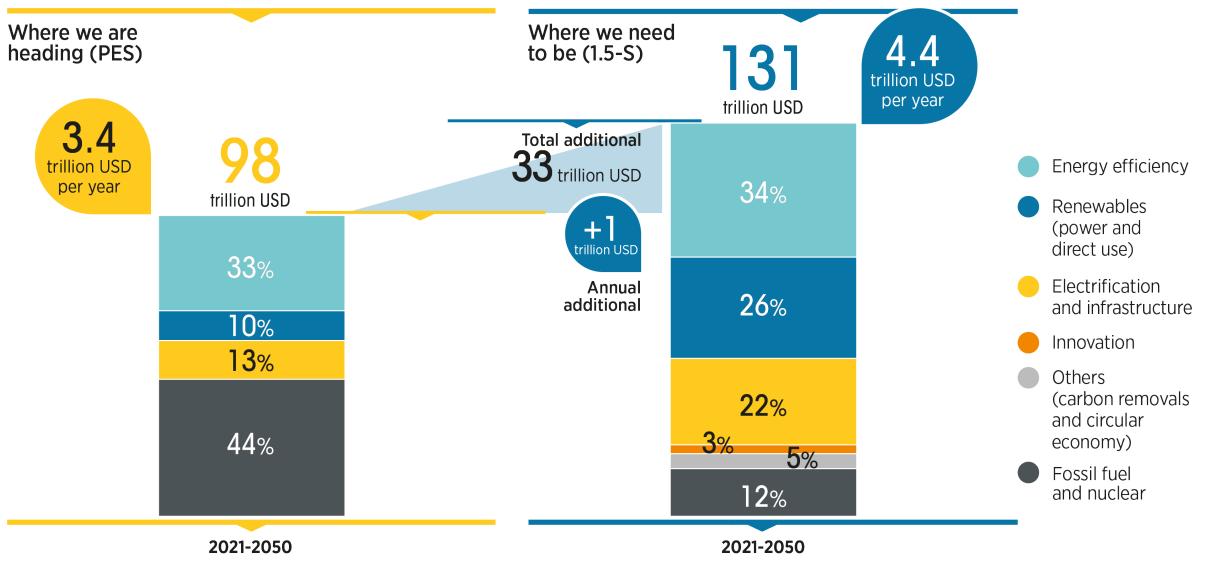
90% of total electricity needs will be supplied by renewables by 2050.

Renewable share in electricity: 25%



Investors and financial markets are anticipating energy transition and allocating capital away from fossil fuels towards energy transition technologies, such as renewables.

New investment priorities: renewables, efficiency and electrification

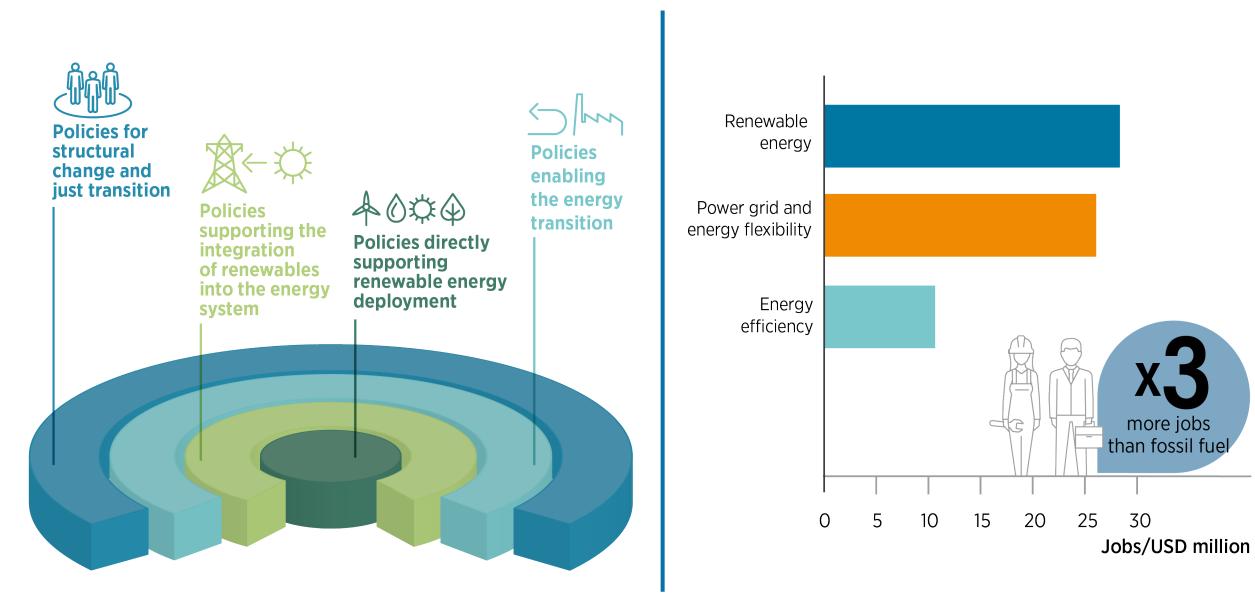


A climate-safe future calls for the scale-up and redirection of investments towards energy transition technologies, away from fossil fuels.





Broad set of policies required for a just transition









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