

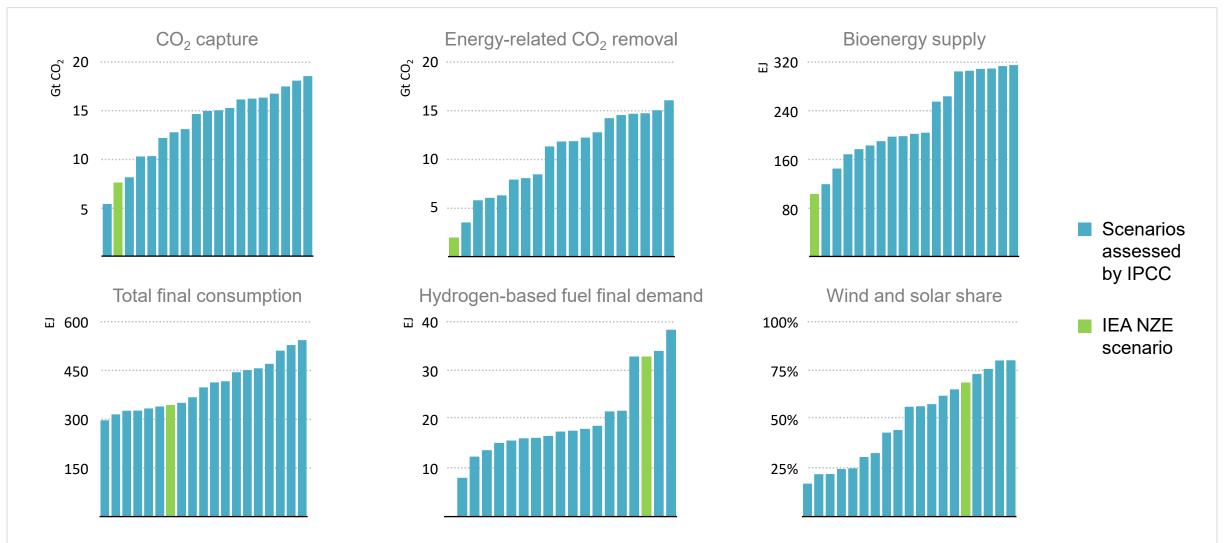
Net Zero by 2050: a Roadmap for the Global Energy Sector

IEEJ Global Energy Webinar

Tokyo / Paris, 28 May 2021

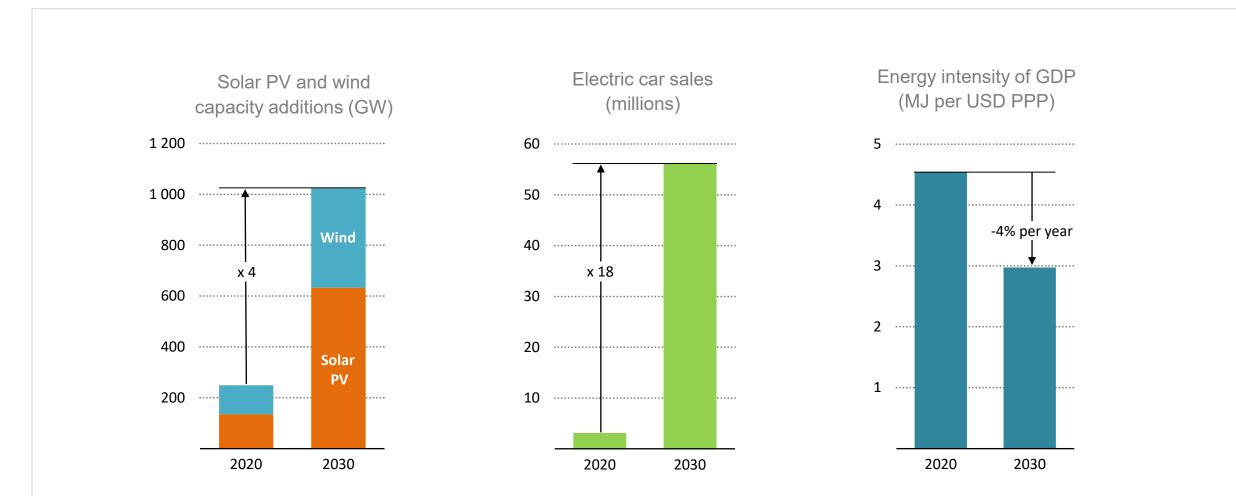
The IEA's NZE in 2050 compared with IPCC net-zero scenarios





The IEA NZE scenario uses more renewables, energy efficiency, and hydrogen – and less CO₂ capture, negative emissions and bioenergy – than IPCC scenarios of a comparable ambition

Make the 2020s the decade of massive clean energy expansion



Technologies for achieving the necessary deep cuts in global emissions by 2030 exist, but staying on the narrow path to net-zero requires their immediate and massive deployment.

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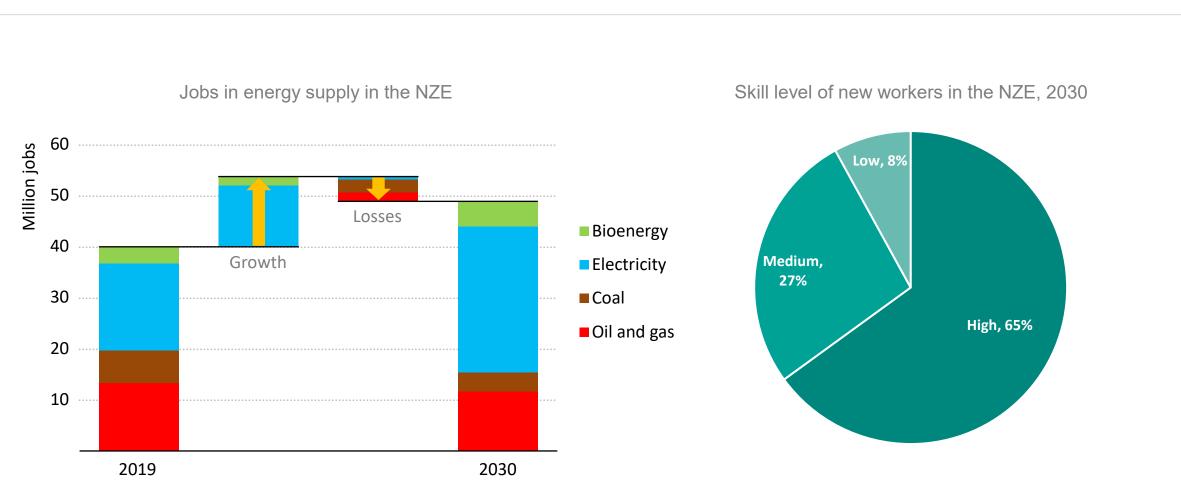
Drive a historic surge in clean energy investment



Annual clean energy investment more than triples by 2030 in the NZE scenario, driving an average 0.4% per year increase in global GDP to 2030 & speeding the recovery from the COVID-19 shock

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Clean energy jobs will grow strongly but must be spread widely

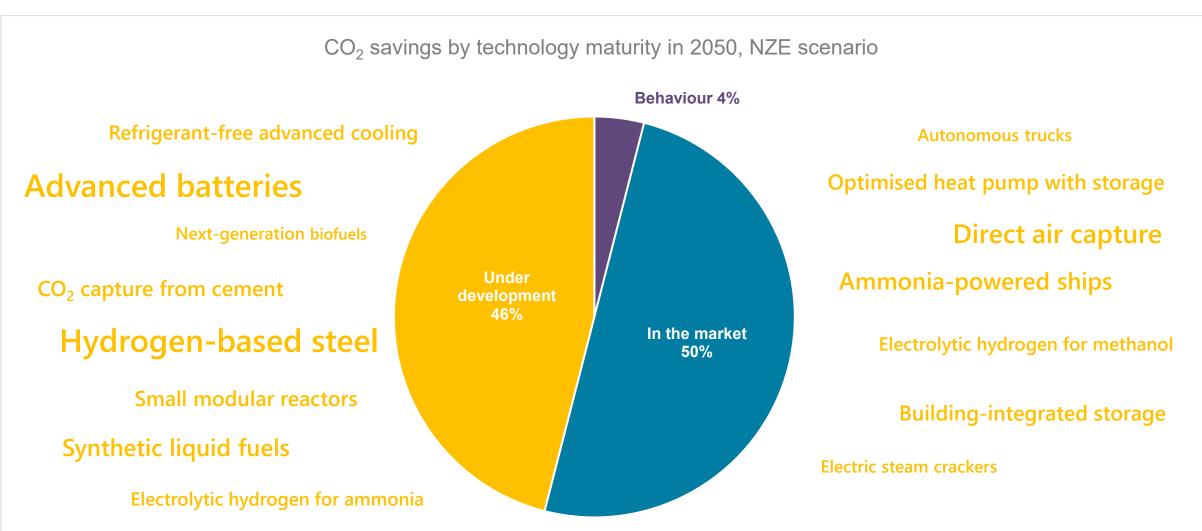


By 2030 there are 14 million jobs created in global energy supply, and a further 16 million in clean energy end-uses; but inclusive policies are needed to support reskilling & diversification in fossil-fuel dependent communities

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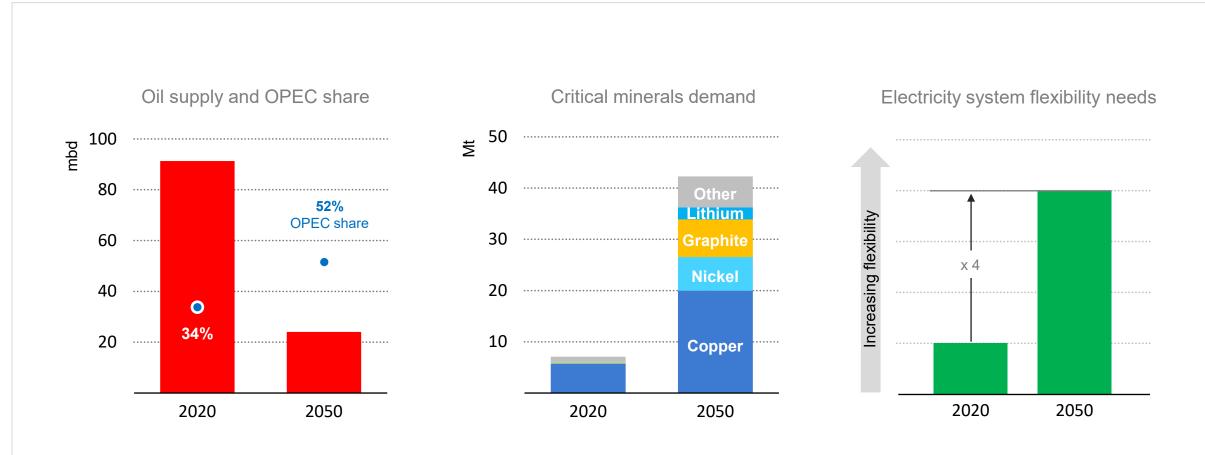
Prepare for the next phase of the transition by boosting innovation



Unlocking the next generation of low-carbon technologies requires more clean energy R&D and \$90 billion in demonstrations by 2030; without greater international co-operation, global CO₂ will not fall to net-zero by 2050.

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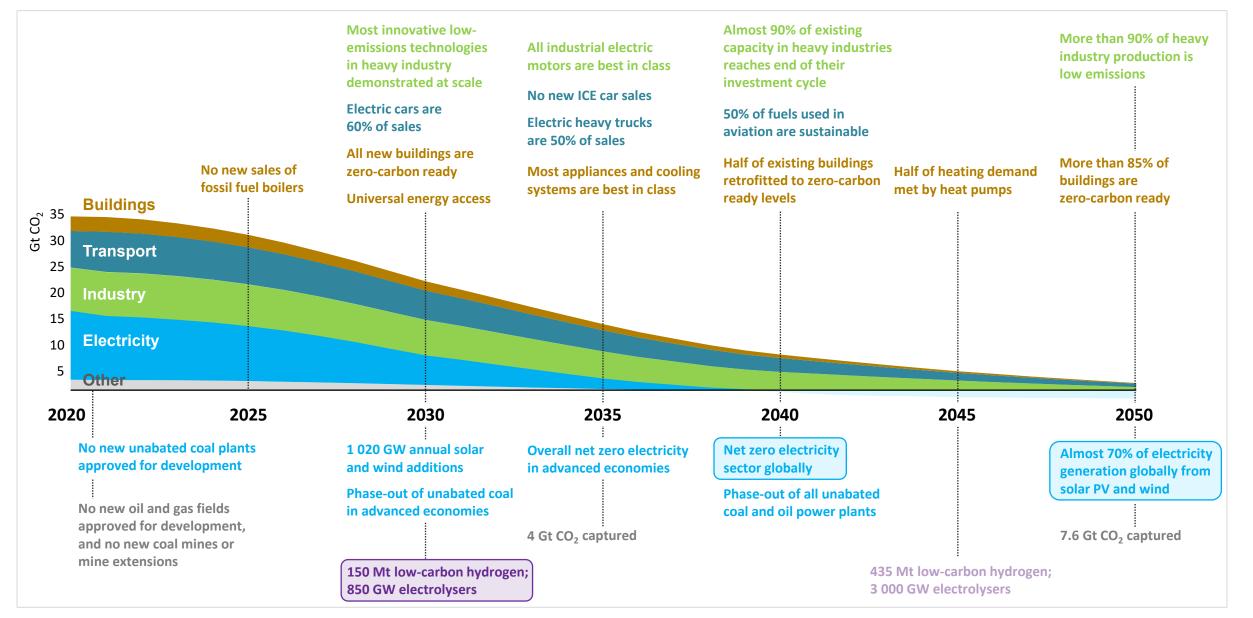
Address emerging energy security risks now



New energy security concerns emerge, and old ones remain; governments need to proactively plan for energy security risks related to market concentration, critical minerals and electricity systems.

Set near-term milestones to get on track for long-term targets





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