

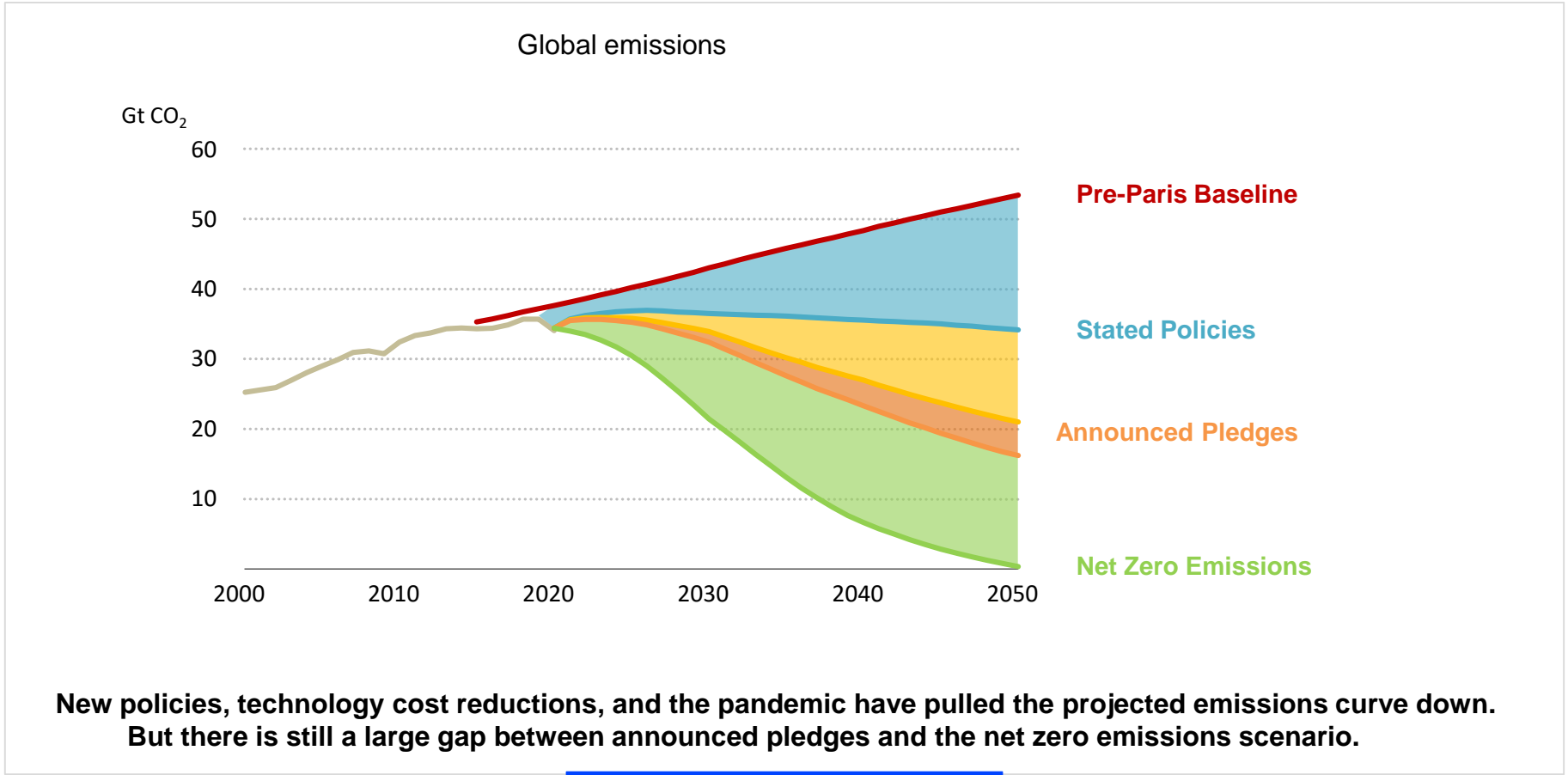


Mapping the Way for a Just Transition towards Net-Zero

28 March 2022

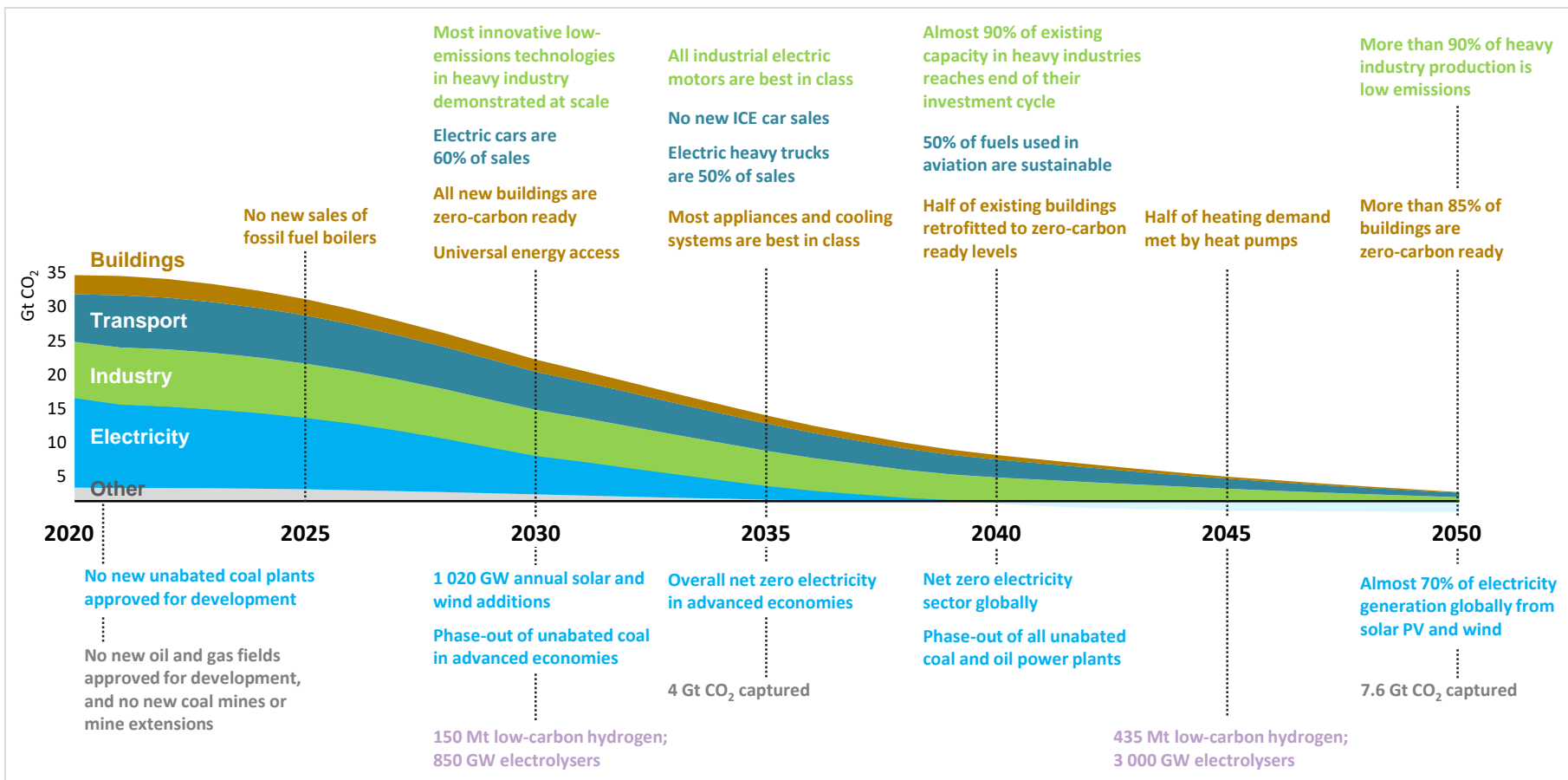
Christophe McGlade, Head of Energy Supply Unit, World Energy Outlook Team

The world is starting to bend the emissions curve



New policies, technology cost reductions, and the pandemic have pulled the projected emissions curve down. But there is still a large gap between announced pledges and the net zero emissions scenario.

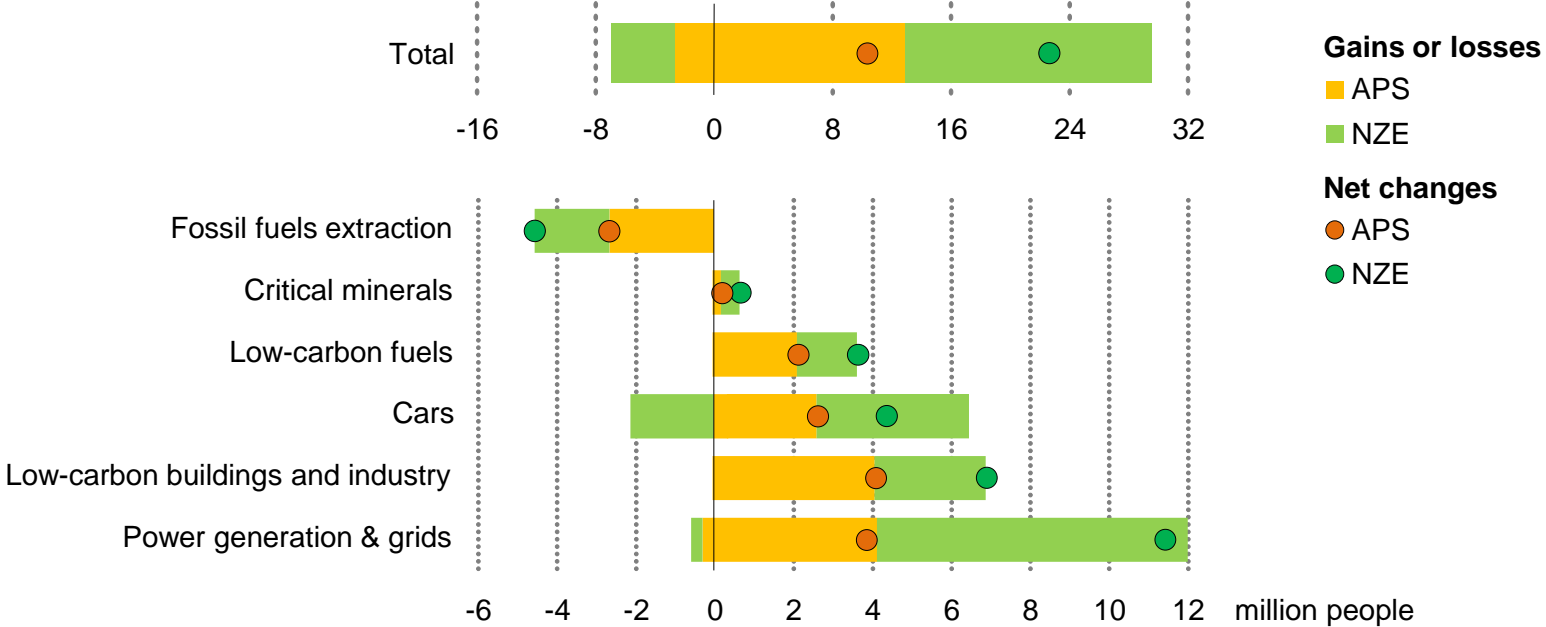
Near-term milestones are aligned get on track for long-term targets



Energy transitions create jobs, but job losses require attention



Employment growth in clean energy and related areas to 2030

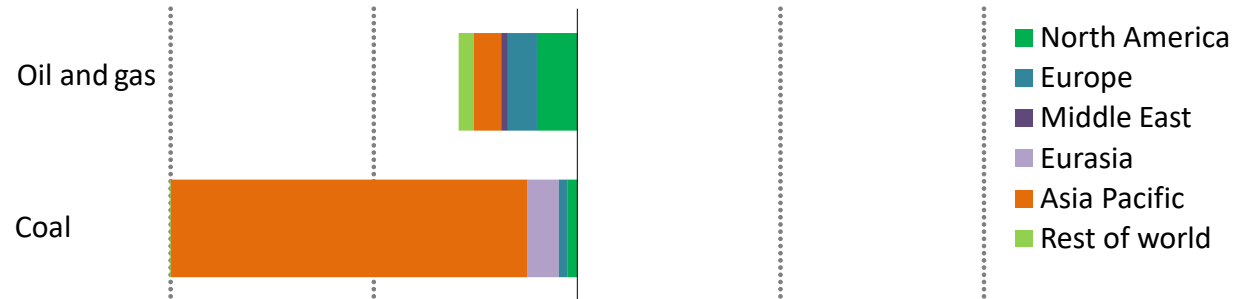


Clean energy job gains outpace losses. However losses are acute in certain regions and sectors. Rapid employment growth also presents risks: growing skills gaps, and insufficient focus on decent work.

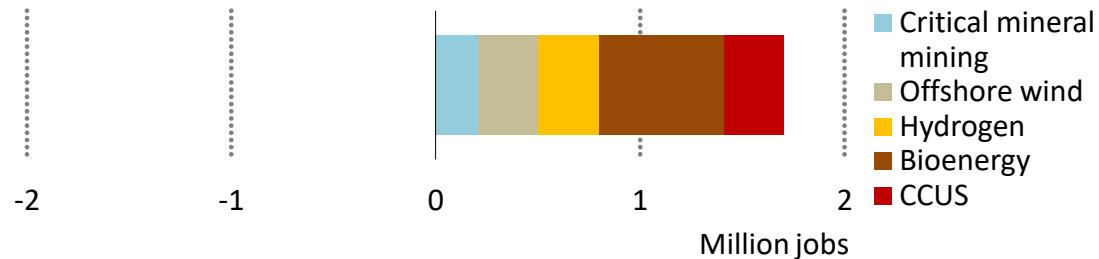
Coal jobs already in decline; oil and gas poised for transition

Changes in fossil fuel employment and energy areas with overlapping skills in the Announced Policies Scenario to 2030

Job losses by region in fossil fuel sectors



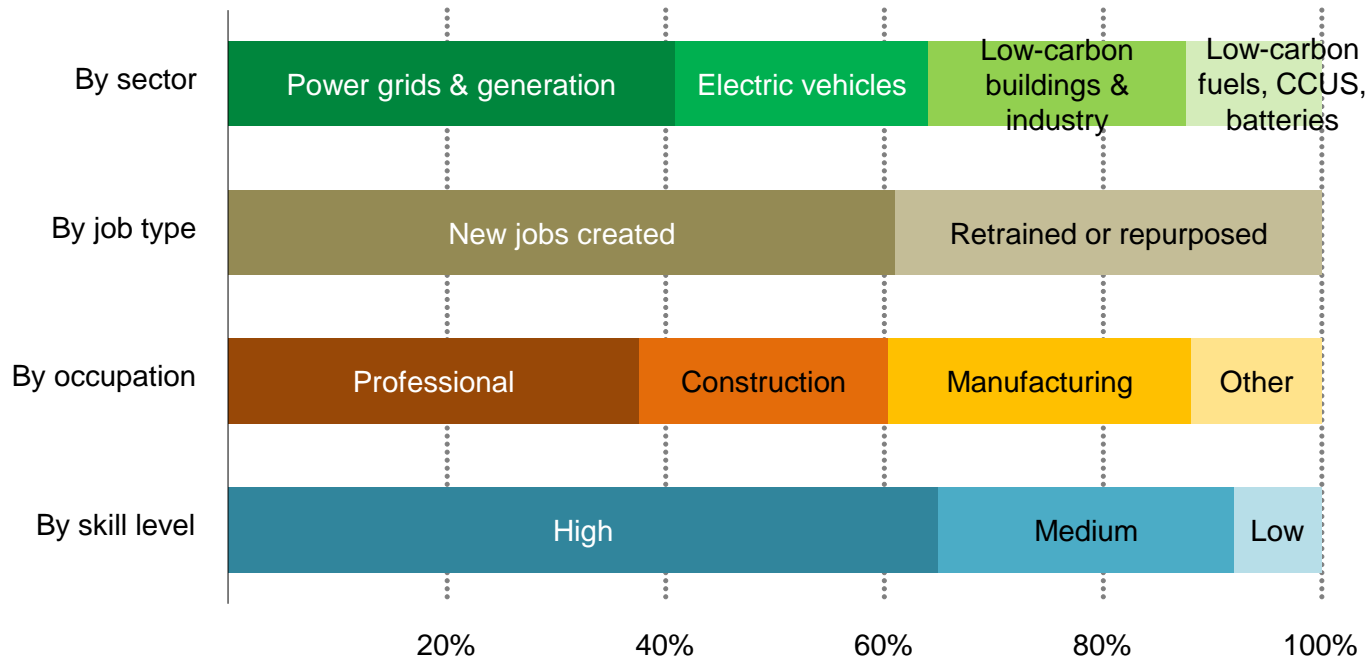
Job growth by clean energy sector



Skilled fossil fuel workers have opportunities to transition to clean energy jobs, though the options are not a direct match for most coal sector jobs lost in Asia

Growth goes beyond the energy sector, but skill gaps may arise

New workers in clean energy by sector, job type, occupation, and skill level in the NZE in 2030



About 30 million new workers are needed by 2030 to meet increased demand for clean energy, energy efficiency, and low-emissions technologies.

Decent jobs & worker protection

Design transitions to maximise creation of decent jobs

Develop tailored government support & training for workers

Use social dialogue and robust stakeholder engagement

Social & economic development

Ensure that policies enhance social & economic development

Prioritise universal clean energy access & elimination of energy poverty

Maintain & enhance energy security, affordability, & resilience

Equity, social inclusion & fairness

Address gender, equality, & social inclusion

Ensure fair distribution of clean energy benefits; avoid disproportional harms for vulnerable populations

Include younger generations in decision making

People as active participants

Design effective behaviour change policies

Encourage public participation

Enhance impact through international collaboration

The focus of the Commission is on actionable recommendations, and maximising the impact of the recommendations on future policies.

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