

Net Zero Roadmap:

A Global Pathway to Keep the 1.5 °C Goal in Reach – 2023 Update

Launch presentation

Paris, 26 September 2023

The path to 1.5 °C has narrowed, but clean energy growth is keeping it open



Global CO₂ emissions reached a record high in 2022, but the speed of the roll-out of key clean energy technologies means that coal, oil and natural gas will all peak this decade even without any new climate policies.

We have the tools to go much faster



Energy-related greenhouse gas emissions peak by 2025 and decline by nearly 40% from today to 2030. Proven solutions available today deliver over 80% of what is needed this decade.

We have the tools to go much faster



Energy-related greenhouse gas emissions peak by 2025 and decline by nearly 40% from today to 2030. Proven solutions available today deliver over 80% of what is needed this decade.

Strong growth in clean energy drives a decline in fossil fuel demand



Clean energy investment needs to grow from USD 1.8 trillion today to USD 4.5 trillion in 2030. As clean energy grows and fossil fuel demand declines, there is no need for investment in new coal, oil and natural gas.

Clean technology supply chains present an industrial opportunity

led



If all announced projects proceed, solar PV manufacturing will exceed the 2030 level needed in the NZE Scenario, and batteries manufacturing will get very close; other technologies see larger gaps.

Innovation is already delivering new tools and lowering their costs



lea

Innovation is already delivering new tools and lowering their costs

On the market



Clean energy innovation has been accelerating in the last few years, yet more RD&D is needed to unlock the next generation of low-emissions technologies. led

Managing the risks and opportunities that arise in energy transitions



The pace of change required in the NZE Scenario represents an enormous undertaking in terms of ensuring energy security, ramping up infrastructure, and safeguarding energy affordability.

A roadmap to net zero by 2050



