

REDRAWING THE ENERGY-CLIMATE MAP

Laura Cozzi, Deputy Head, Directorate for Global Energy Economics

World Energy Outlook Special Report

The world is still moving in the wrong direction

Global energy-related CO₂ emissions



 CO_2 emissions trends point to a long-term temperature increase of up to 5.3 °C

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National efforts in this decade need to buy time for an international agreement, expected to come into force in 2020

Measures to 2020 should meet key criteria:

- Significant near-term emissions reductions
- > No harm to countries' economic growth
- > Reliance only on existing technologies and proven policies

> Significant national benefits other than climate change mitigation

Our 4-for-2 °C Scenario proposes four measures that meet these criteria

Four measures can stop emissions growth by 2020

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Emissions savings in the 4-for-2 °C Scenario, 2020



Four measures can stop the growth in emissions by 2020 at no net economic cost, reducing emissions by 3.1 Gt, 80% of the savings required for a 2 °C path

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The energy sector needs to adapt to climate change

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The energy sector needs to increase its resilience to the physical impacts of climate change

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The energy sector needs to increase its resilience to the physical impacts of climate change

Some fossil-fuel reserves remain underground

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Potential CO₂ emissions from proven fossil-fuel reserves to 2050



On today's trends, half of the proven fossil-fuel reserves would be left undeveloped to 2050 – stronger climate action would increase the share

Key messages

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- Despite encouraging steps in some countries, global emissions keep rising and the scientific evidence of climate change increases
- Early national action is required while negotiating towards a global deal in Paris in 2015 that then comes into force by 2020
- Four measures can stop emissions growth by 2020 and keep the 2°C target alive, without harming economic growth
- There is a need for parallel action to deploy critical low-carbon technologies at scale after 2020, including CCS
- The energy sector must adapt to climate change, both in the resilience of its existing assets and in future investment decisions



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