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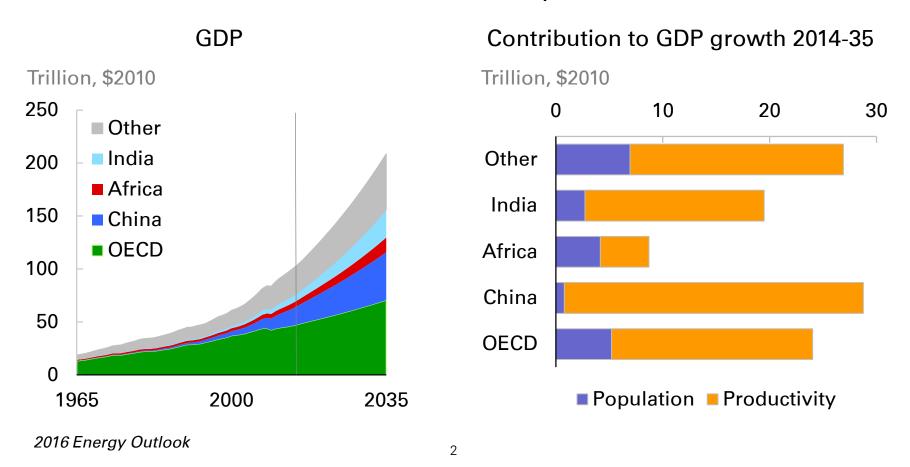


Spencer Dale, group chief economist



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Economic backdrop

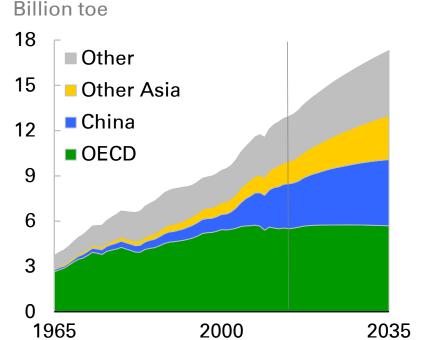


Global energy demand



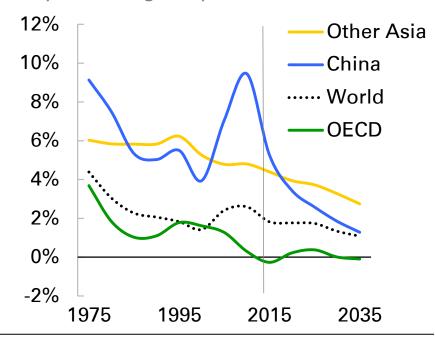


Consumption by region



Consumption growth by region



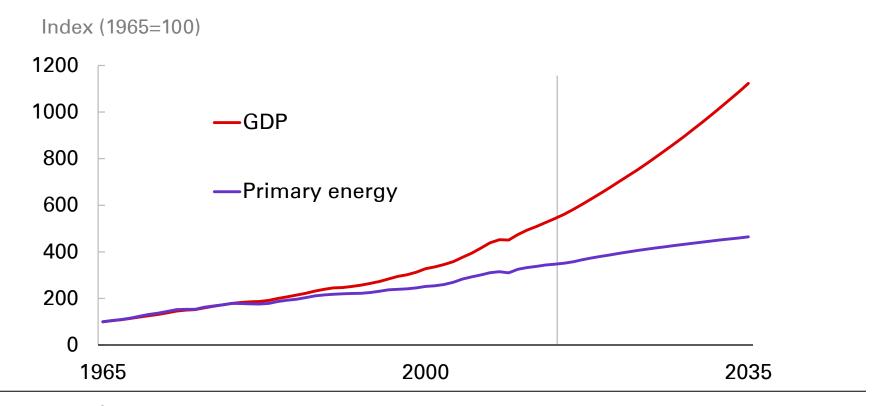




What drives energy demand?

Global GDP and energy

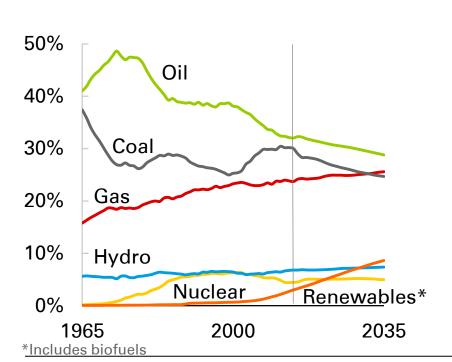




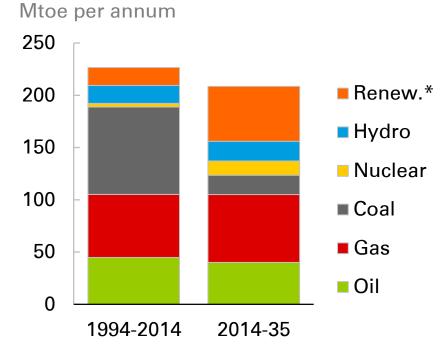
Fuel mix







Annual demand growth by fuel

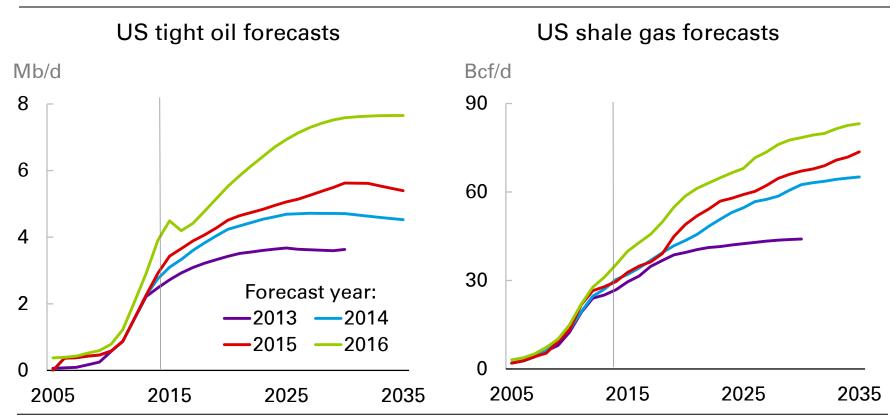




- What have we learned about US shale?
- China's changing energy needs
- Prospects for renewables and other non-fossil fuels
- Changing outlook for carbon emissions









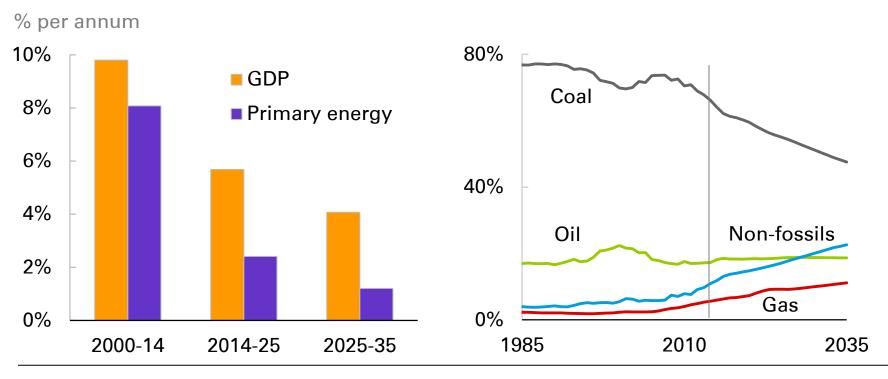
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China's changing energy needs





Shares of primary energy

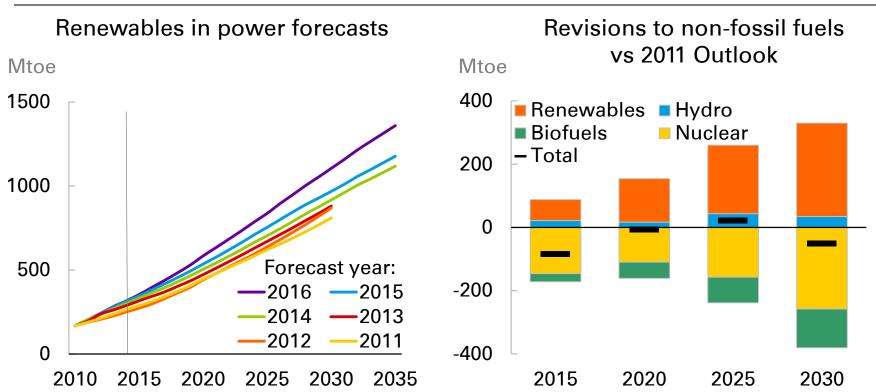




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Renewables and other non-fossil fuels



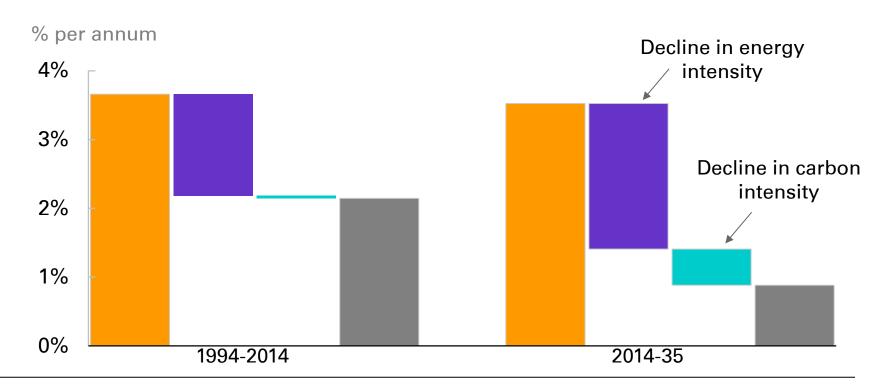




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Carbon emissions

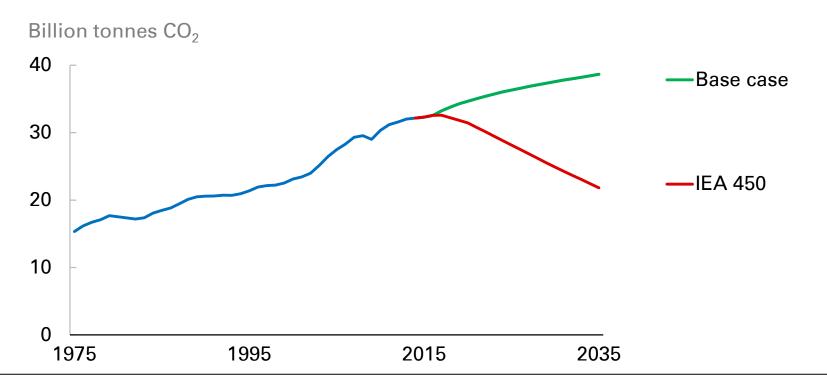




Outlook for carbon emissions



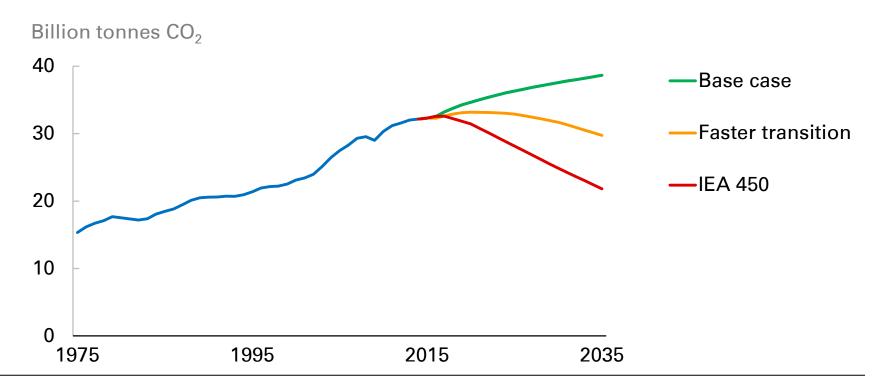
Carbon emissions



Outlook for carbon emissions

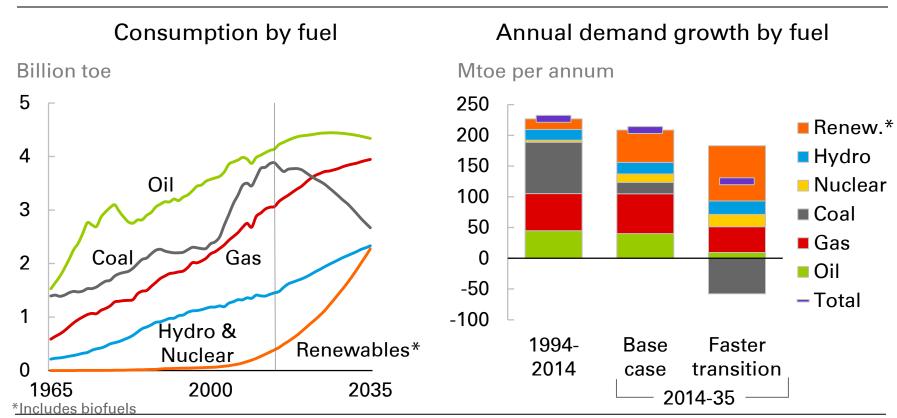


Carbon emissions



Impact of faster transition case





Conclusions



- Global demand for energy continues to rise
 - to power increased levels of activity as the world economy continues to grow
- Fuel mix changes significantly
 - coal losing, renewables gaining, and oil and gas combined holding steady
- Growth rate of carbon emissions slows sharply
 - but further policy changes are needed

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