

60 years
BP Statistical Review



BP Energy Outlook 2030

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Outline

Global trends

Oil (and other liquid fuels)

Gas (power and coal)

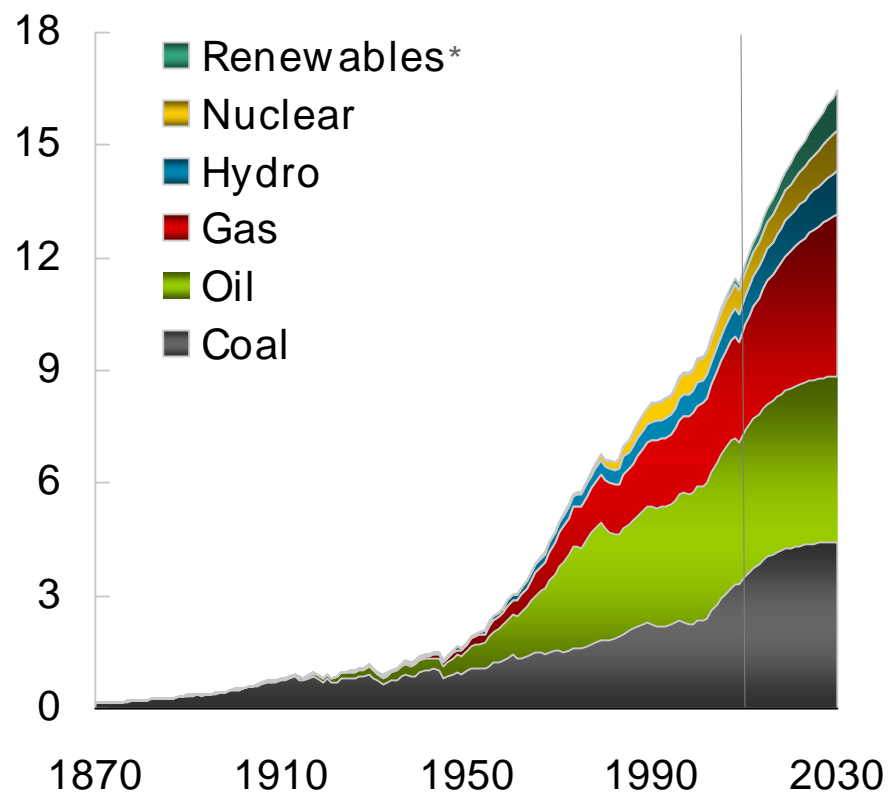
What can bend the trend?



The long view: Energy consumption and fuel mix

World commercial energy use

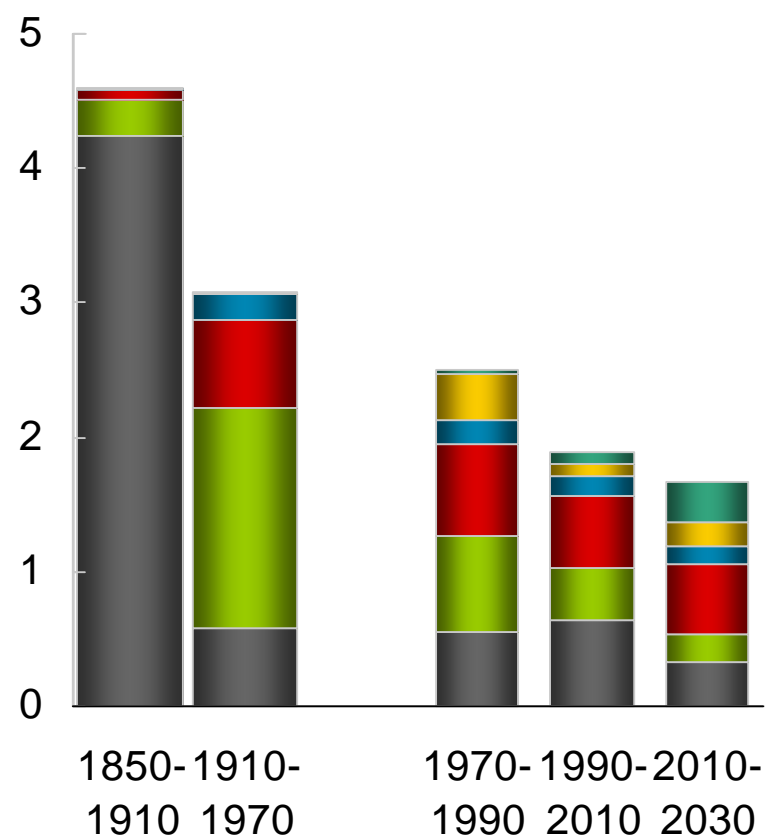
Billion toe



* Includes biofuels

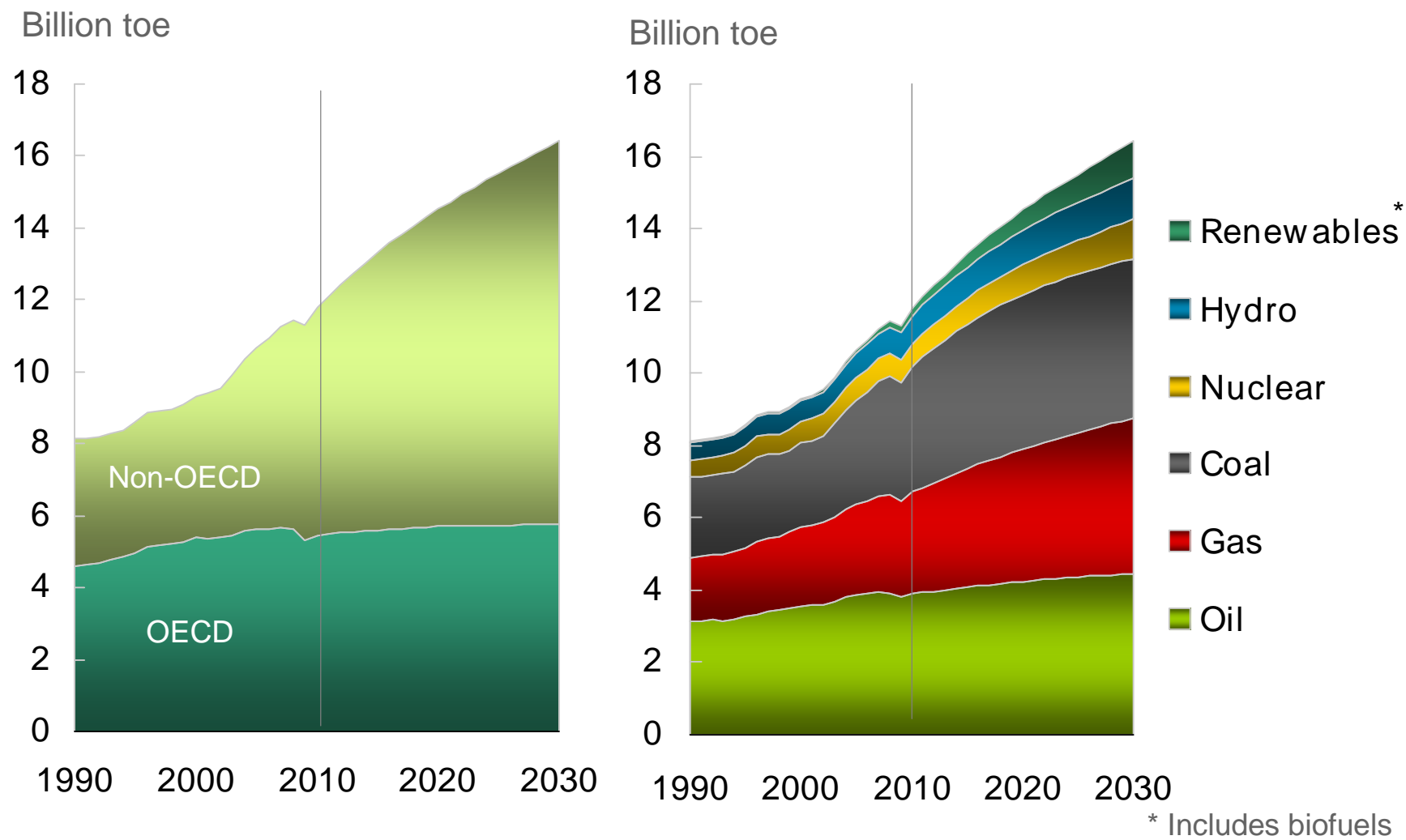
Contribution to total energy growth

% p.a.





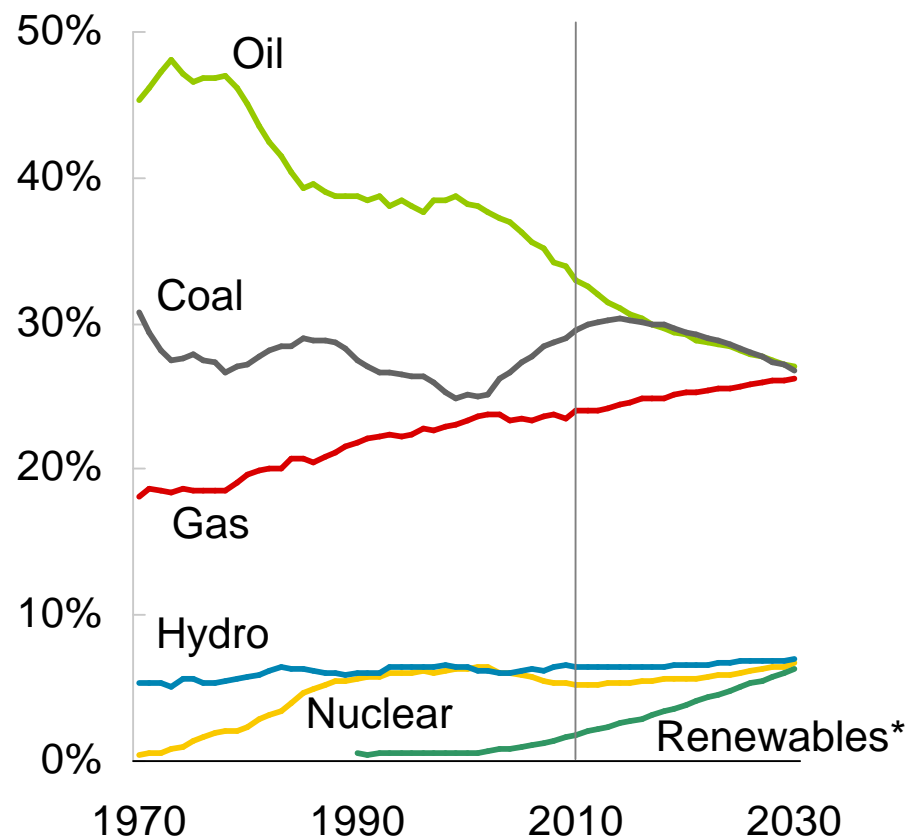
Non-OECD economies drive consumption growth



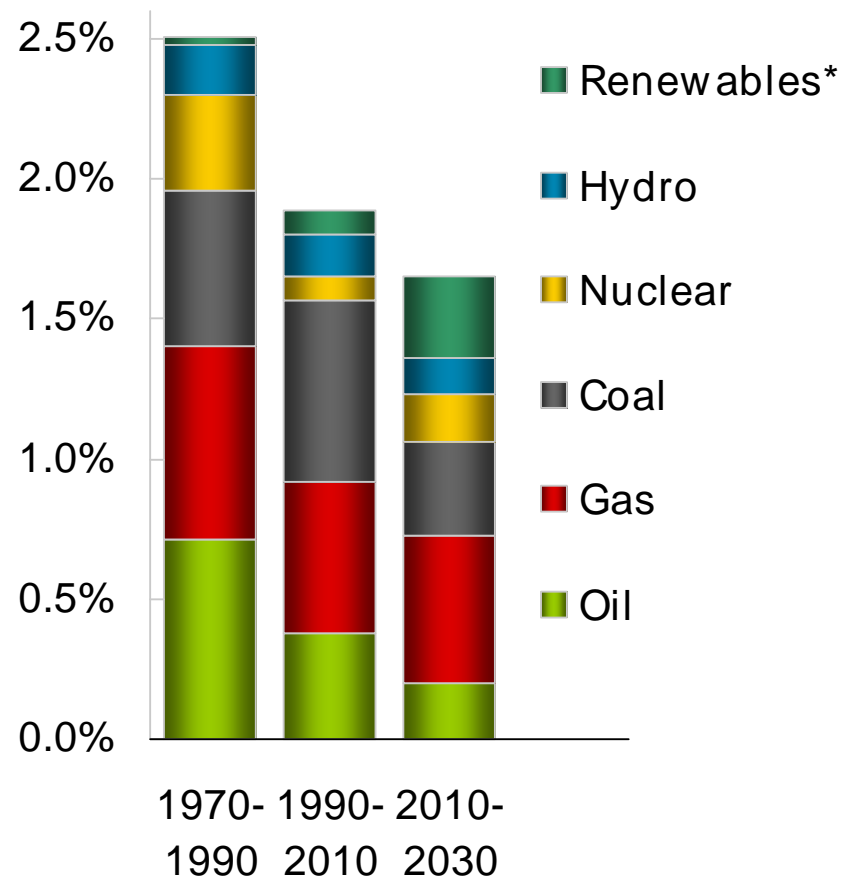


Gas and renewables win as fuel shares converge

Shares of world primary energy



Contributions to growth

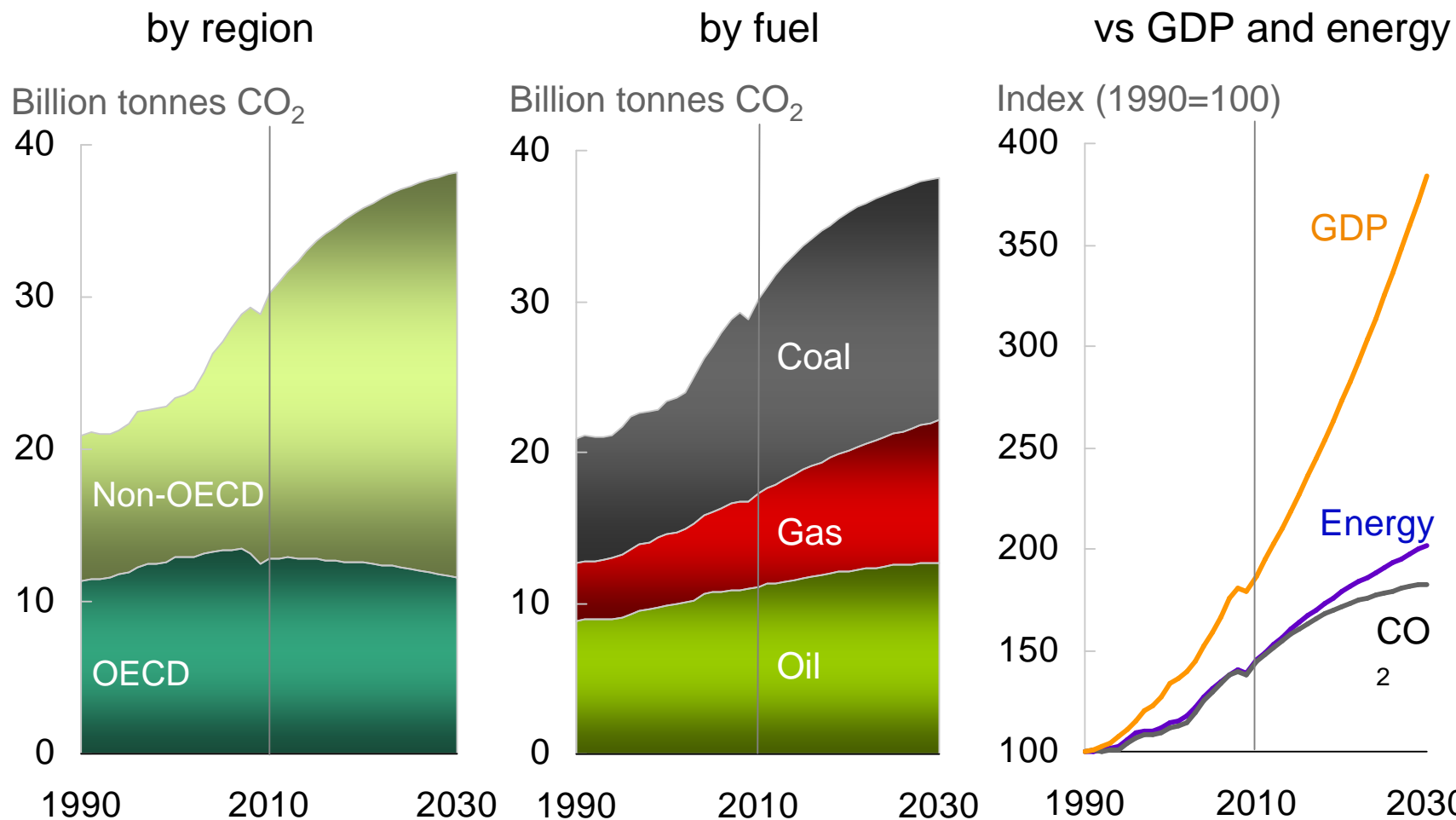


* Includes biofuels



Policies to constrain carbon emissions gradually tighten

Global CO₂ emissions from energy use

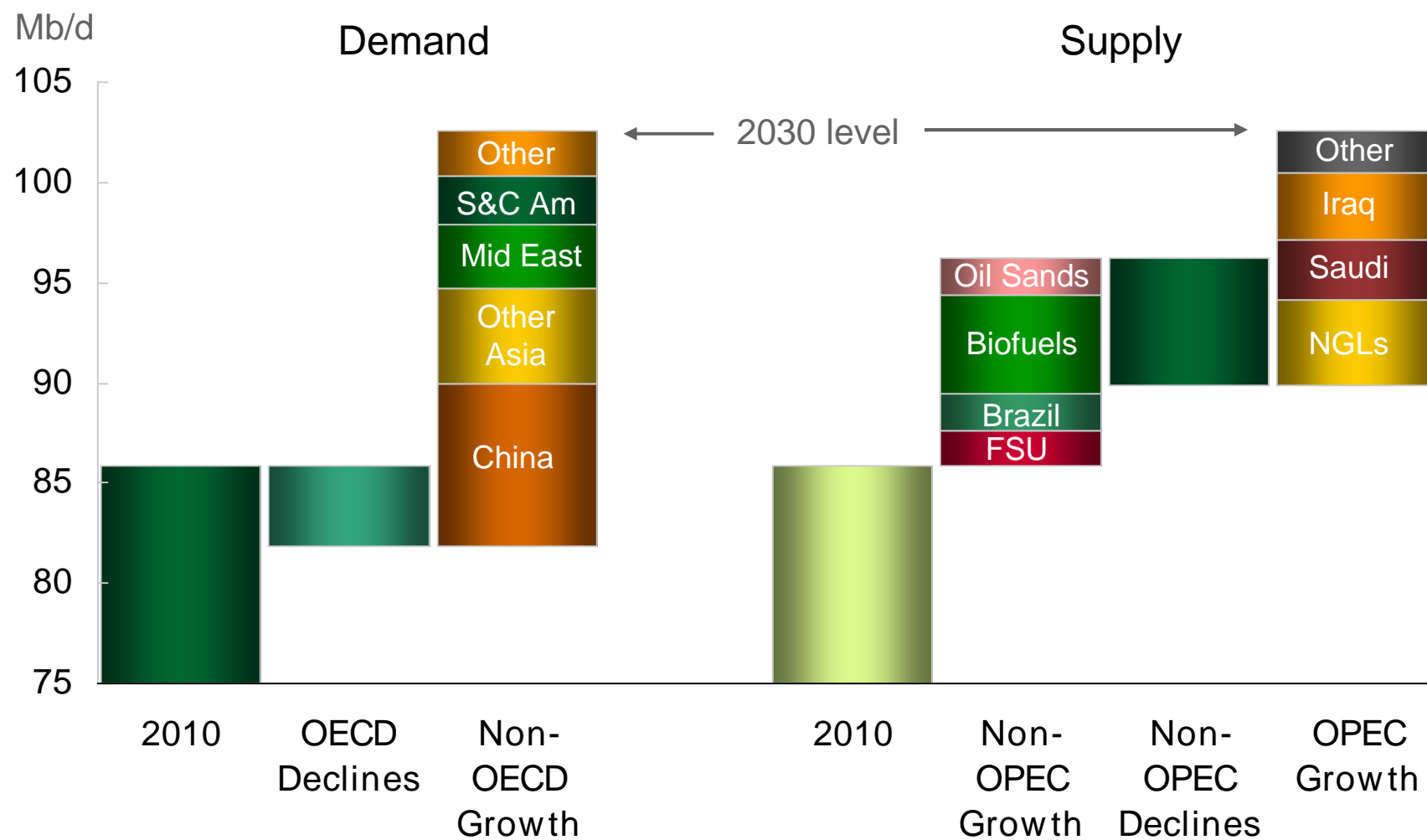




Oil (and other liquid fuels)

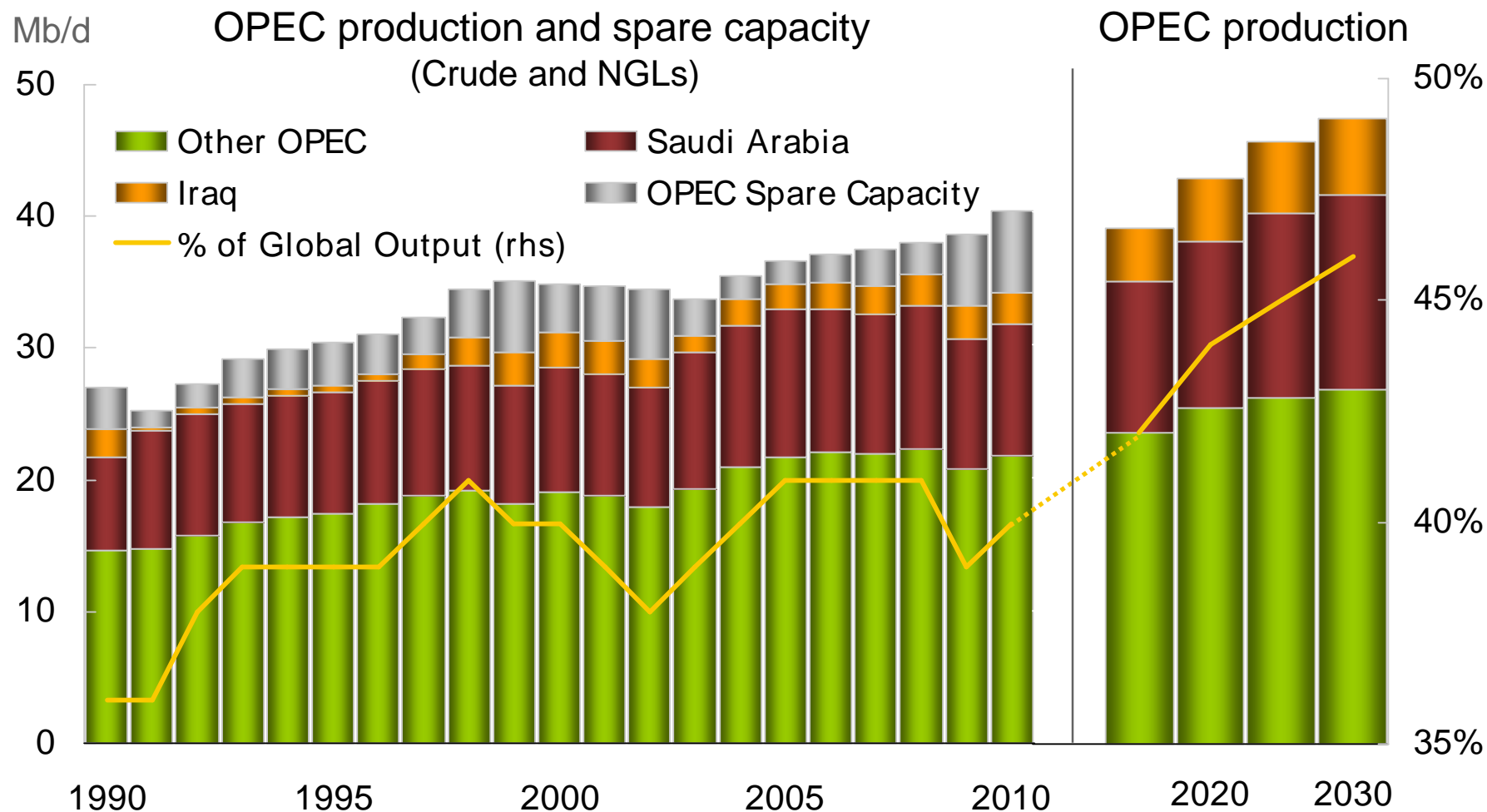


Liquids balance – demand and supply





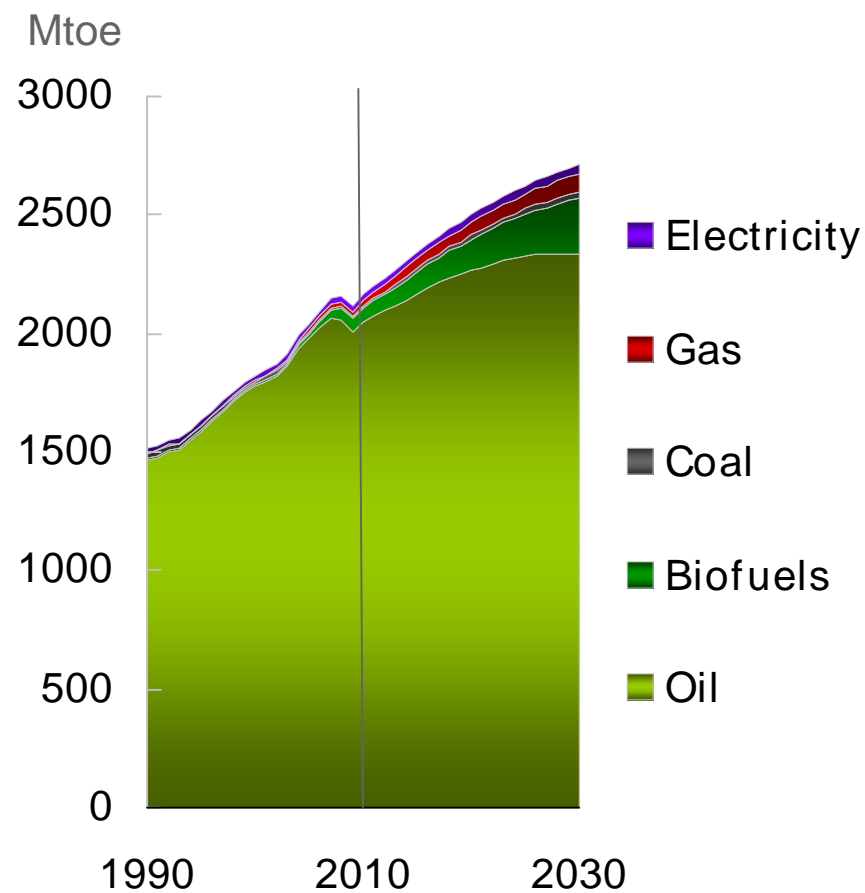
OPEC's critical role in the oil market continues



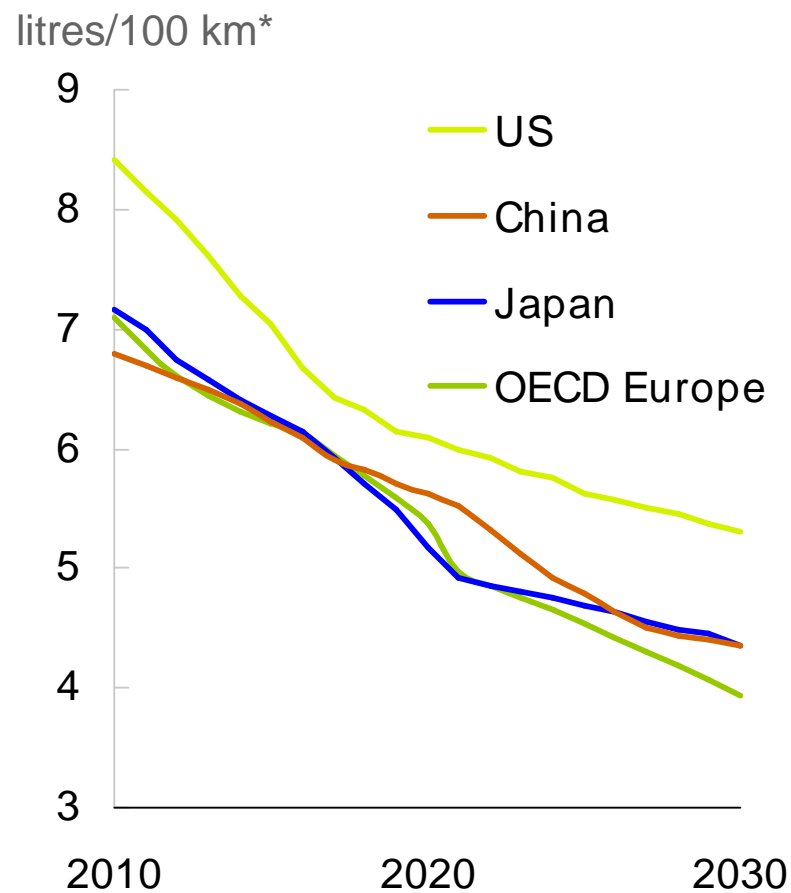


Oil growth in the transport sector slows

Energy in transport



Passenger car fuel economy

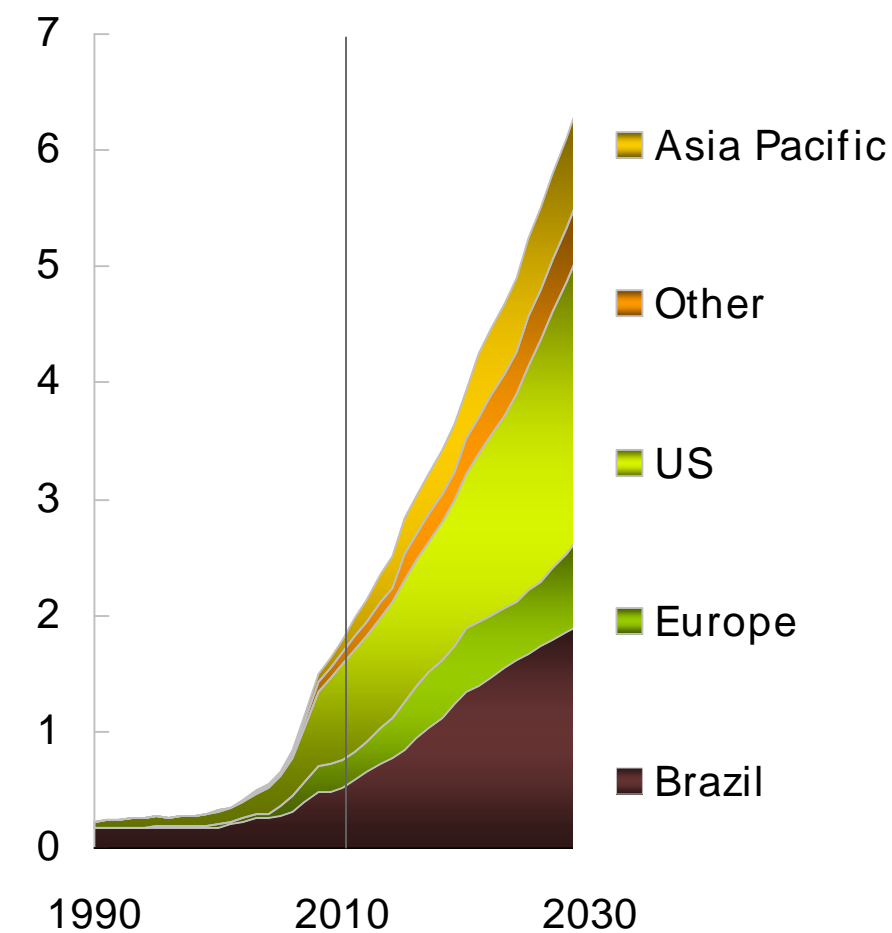


* New sales average

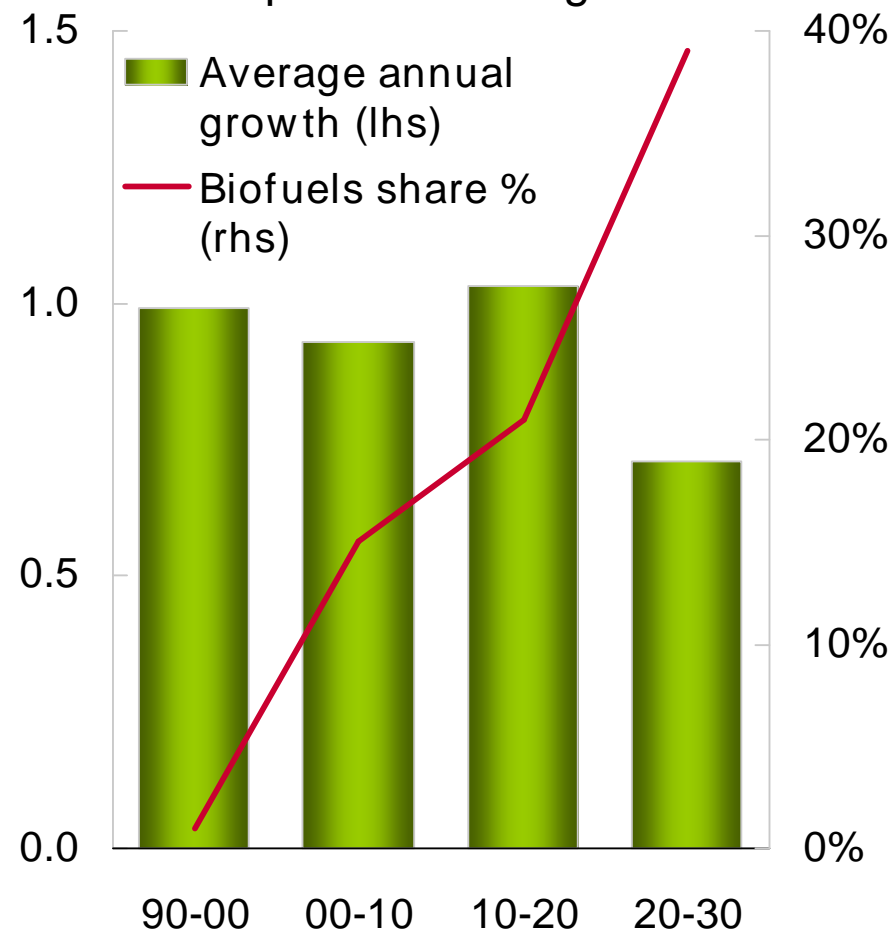


Biofuels meet an increasing share of demand growth

Biofuels supply



Liquids demand growth



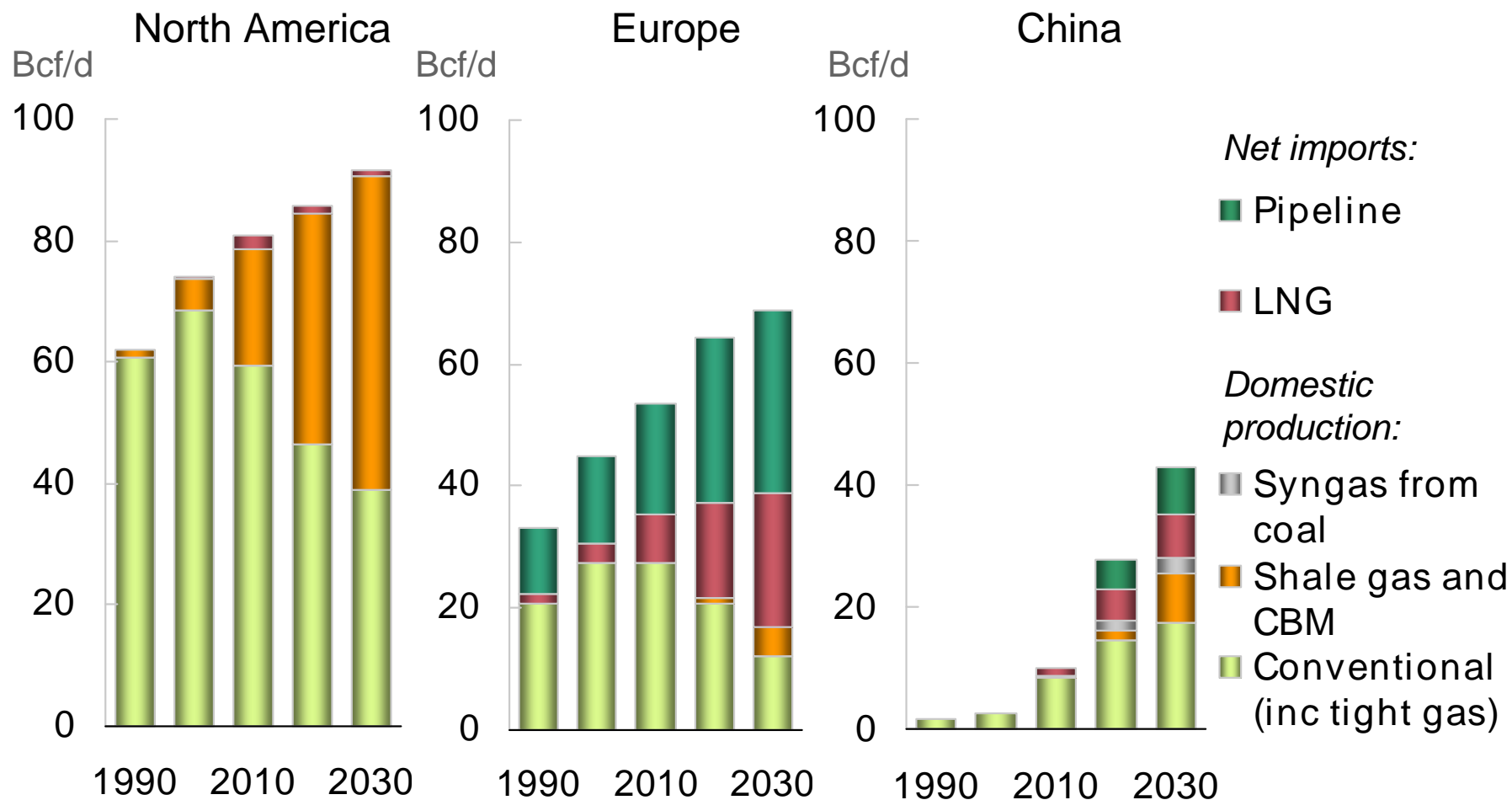


Gas (power and coal)



Unconventional gas will play a growing role

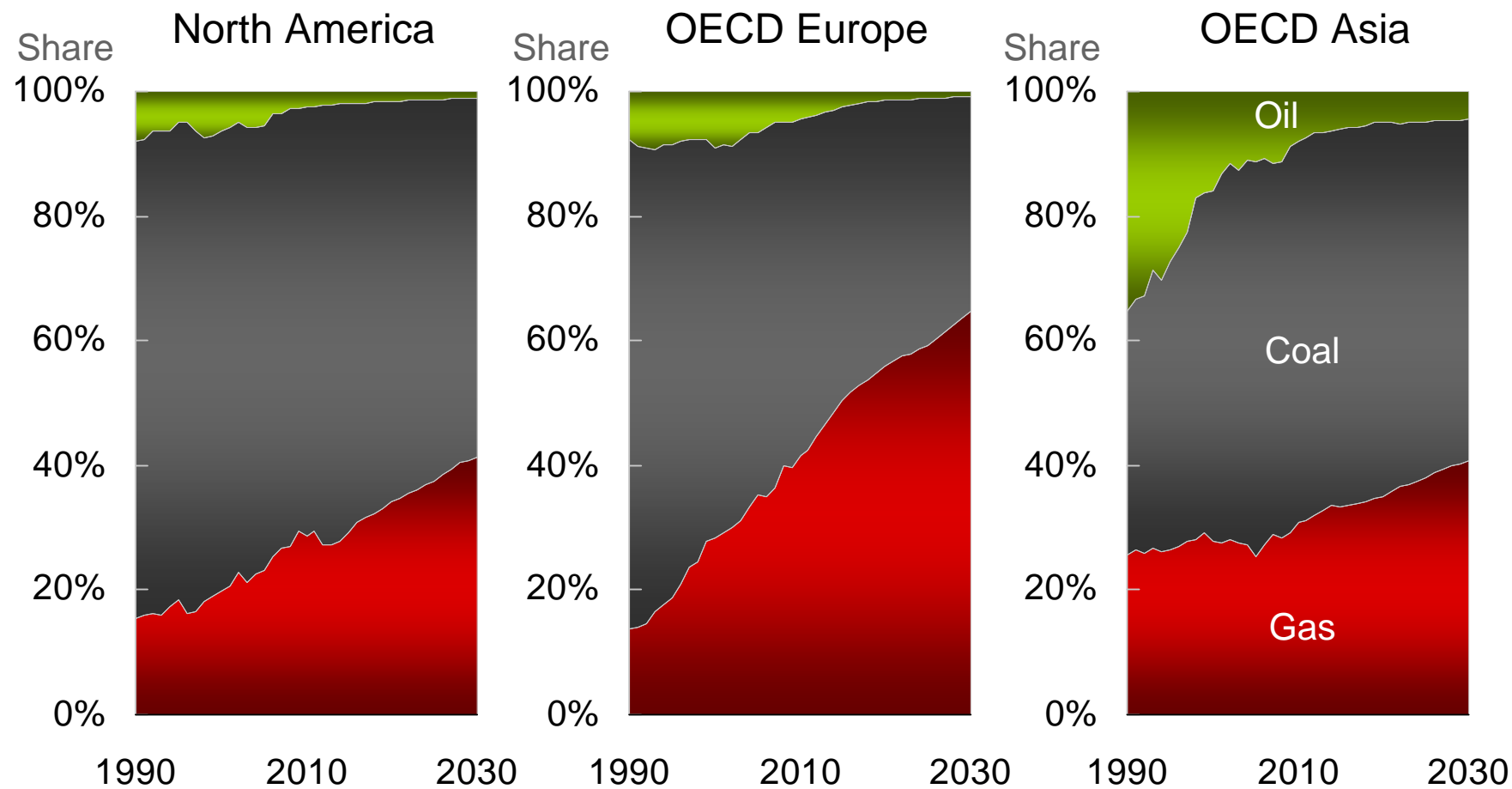
Sources of gas supply, by region





Gas displaces coal in OECD power generation

Shares of power generated from fossil fuels

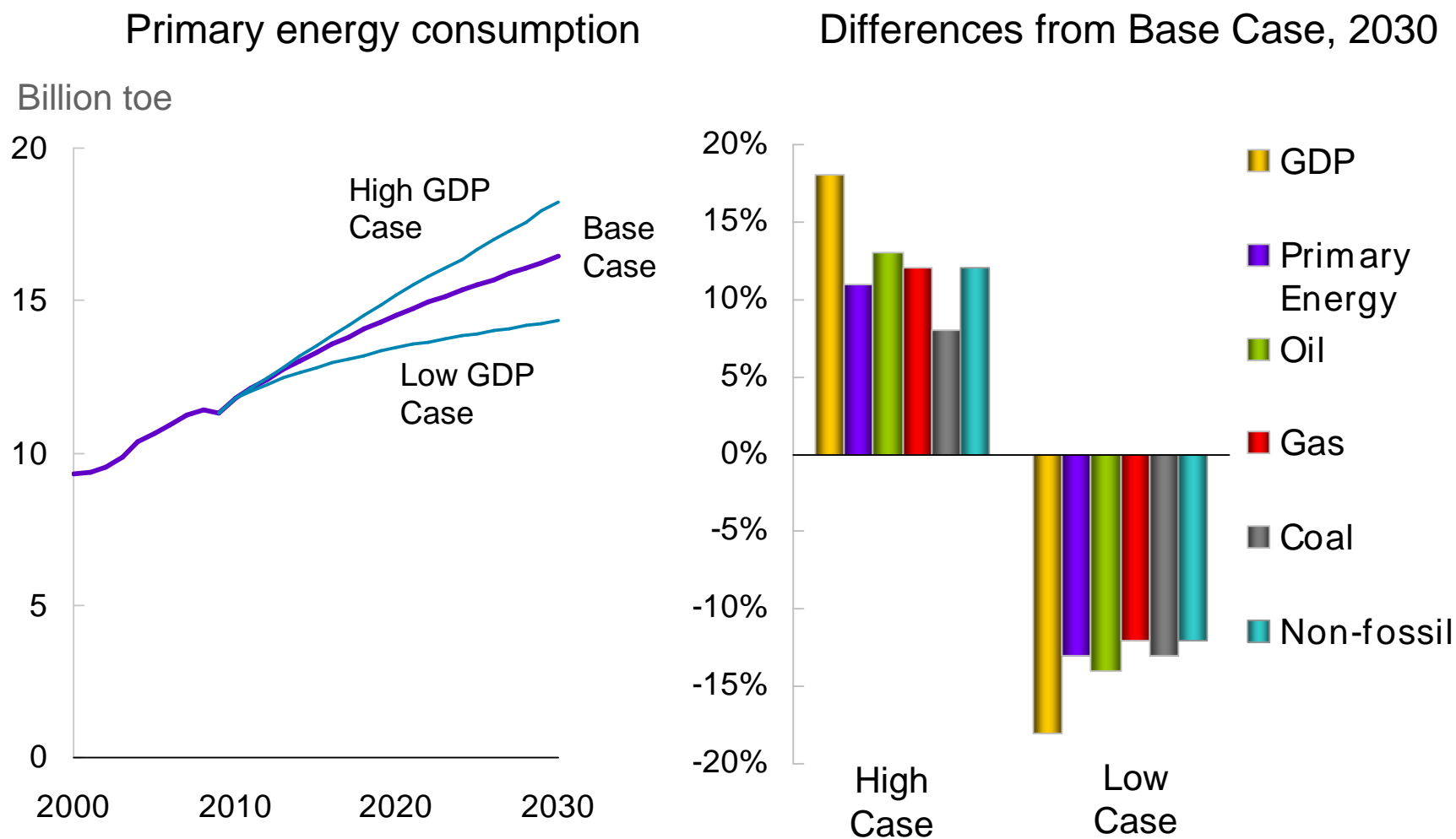




What can bend the trend?

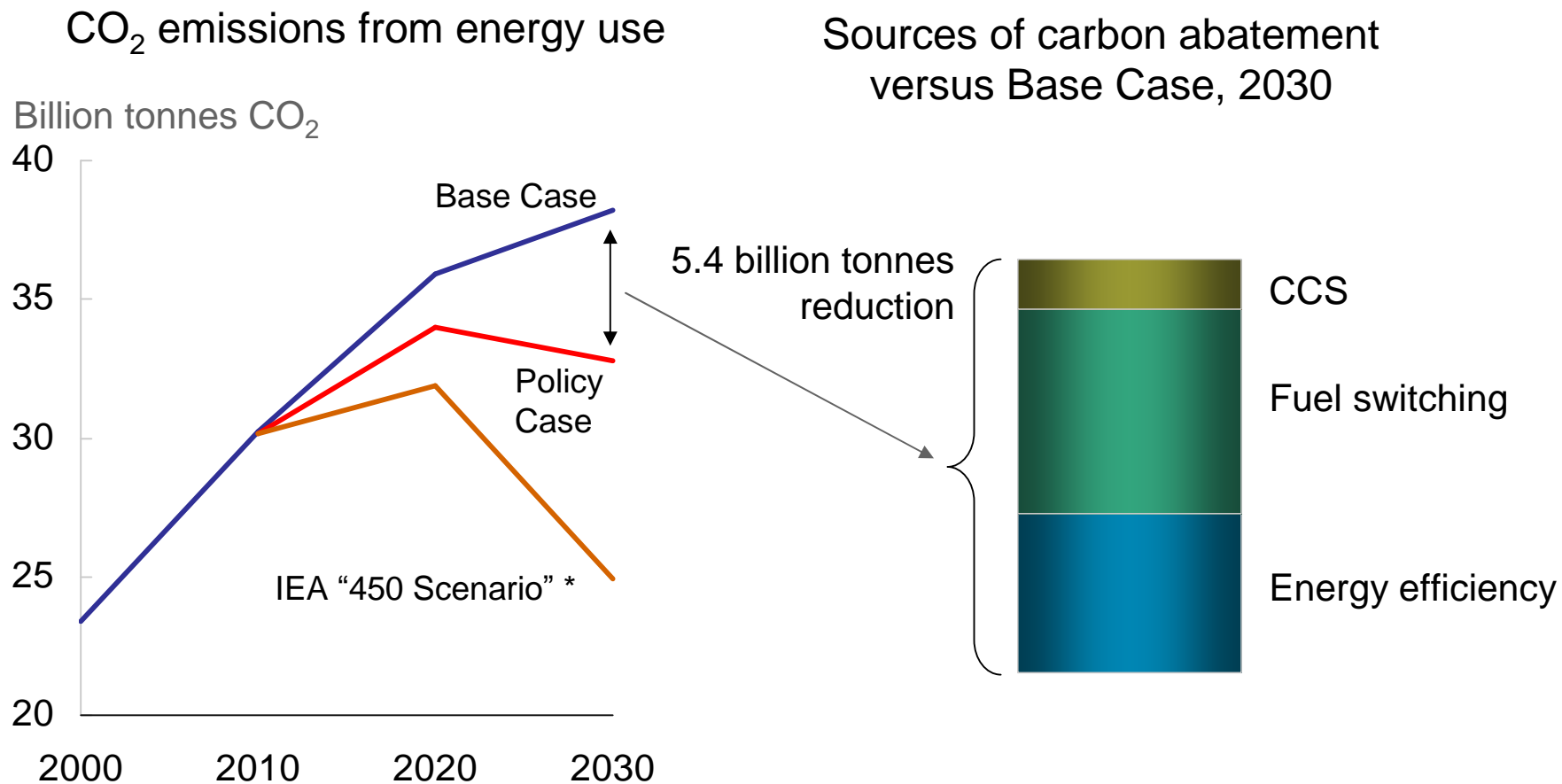


1. The future path of global economic growth





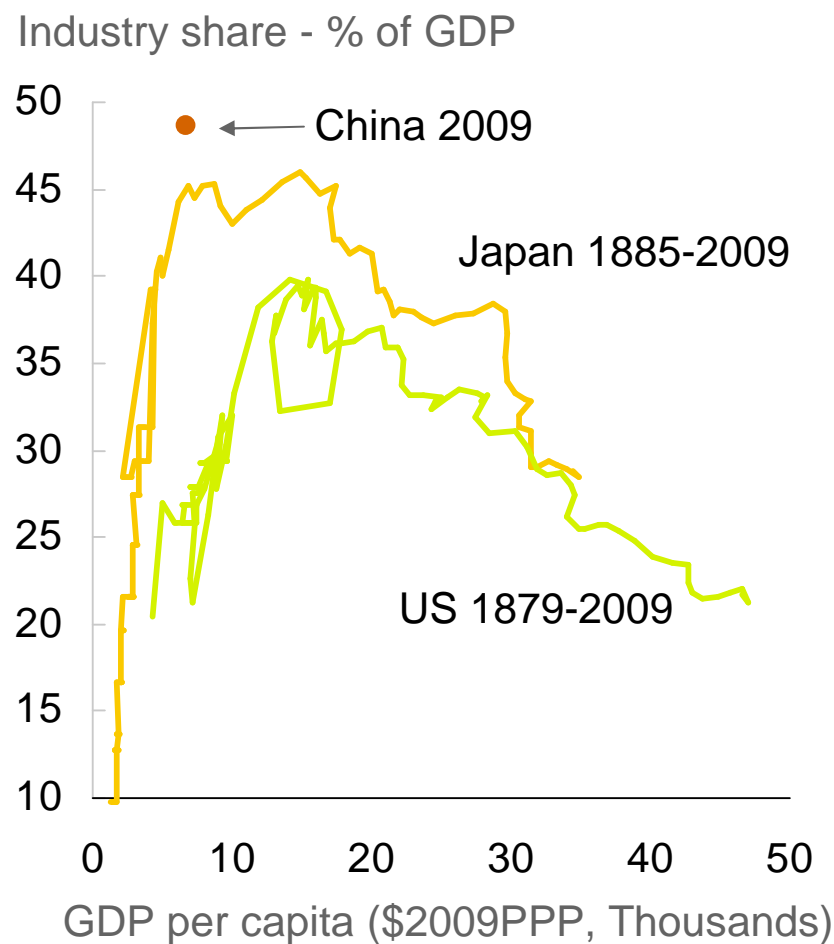
2. Stronger policy action on climate change



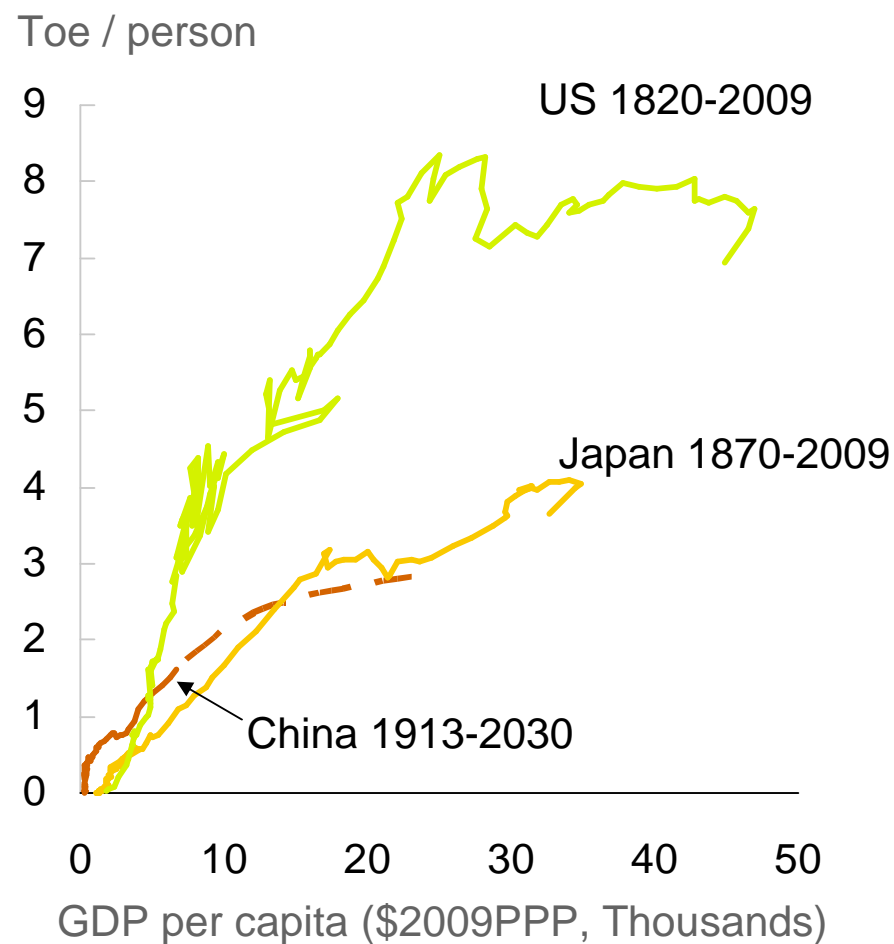
* a back-cast which illustrates what is required to stabilise greenhouse gas concentrations at 450 ppm from IEA, *World Energy Outlook 2010*

3. China's pathway

Industrialisation

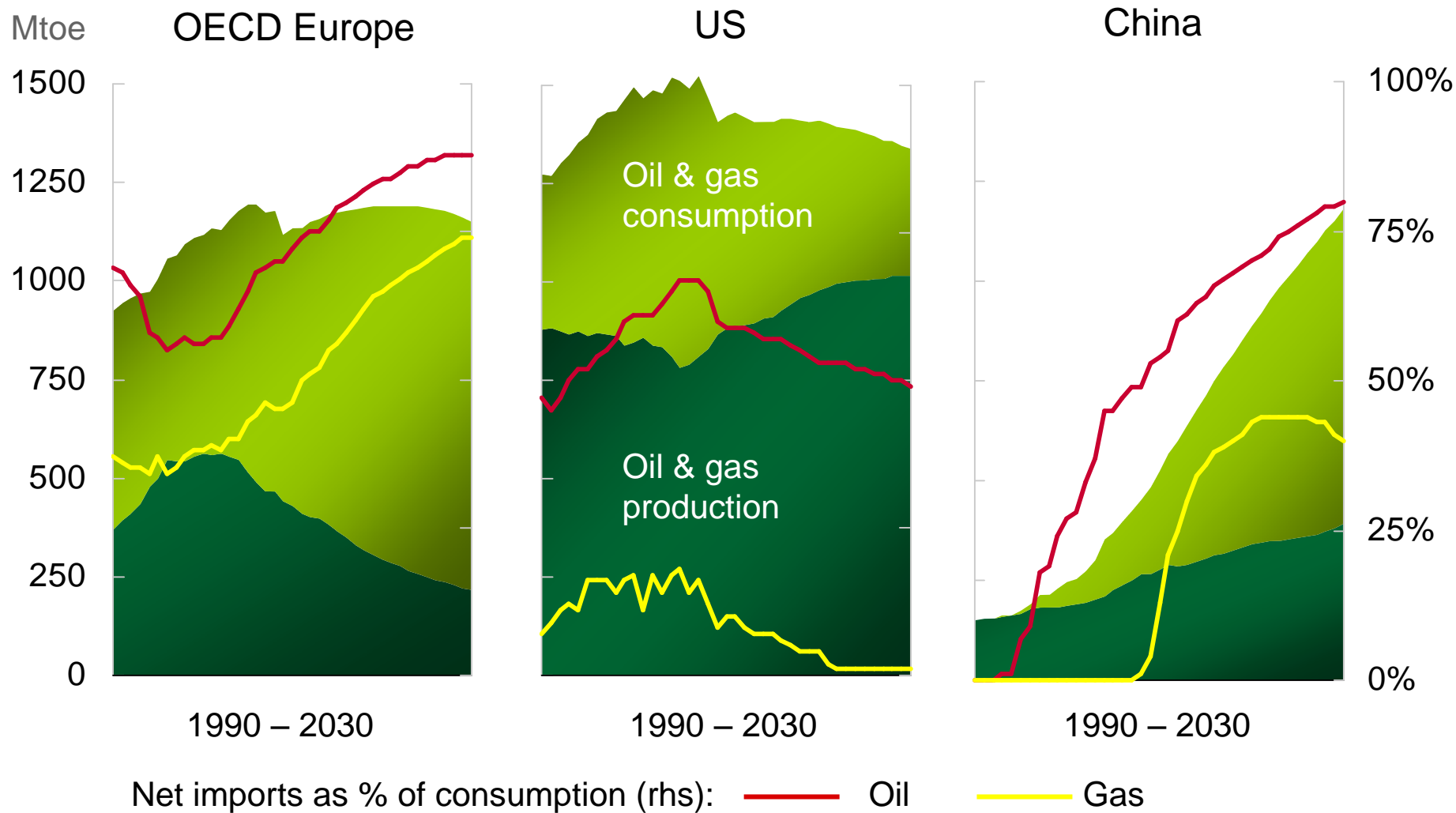


Energy per capita





4. Energy security





Conclusion

- Energy efficiency – improving
- Fuel mix – diversifying
- Carbon emissions – too high
- Regional and policy trends – mixed

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London, January 2011