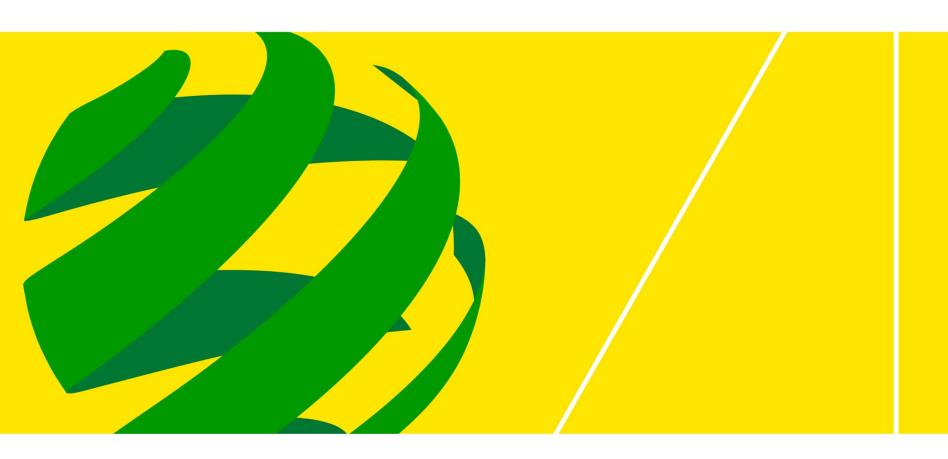
BP Energy Outlook 2035



Focus on North America, September 2014

bp.com/energyoutlook #BPstats



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Fuel by fuel

Carbon emissions and the fuel mix

North American energy use rises slowly and peaks in the US



Consumption by region

Consumption by region

Billion toe

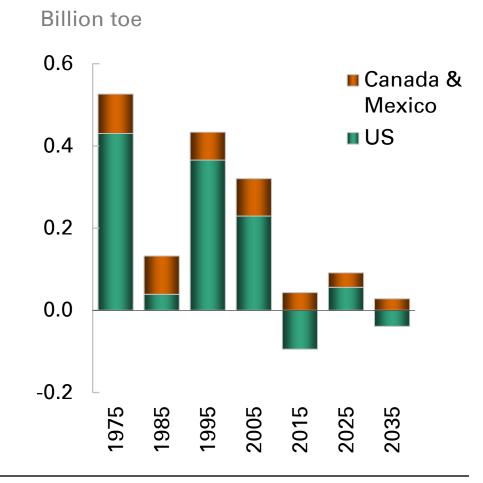
1

0

1965

3 Canada & Mexico US 2

Ten year increments by region

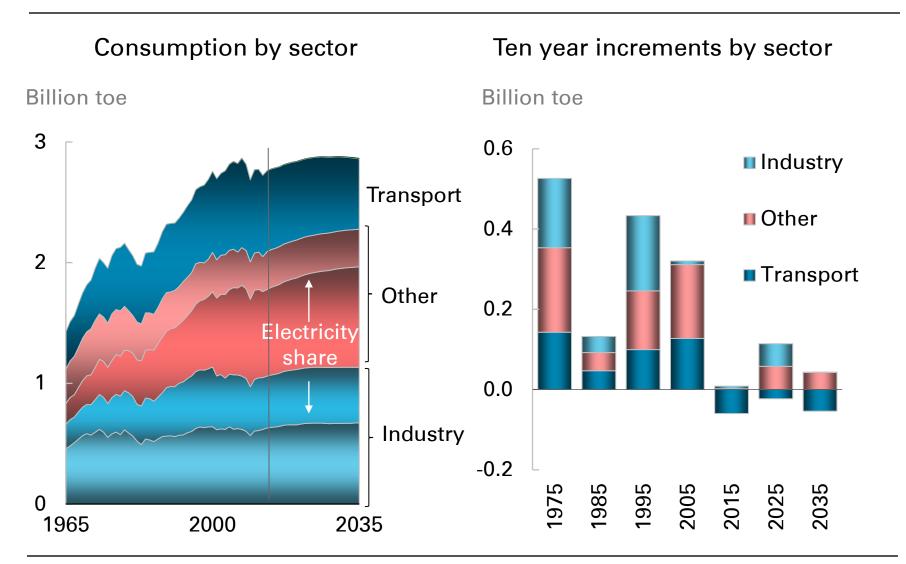


2000

2035



Falling transport demand offset by 'other' (including power)

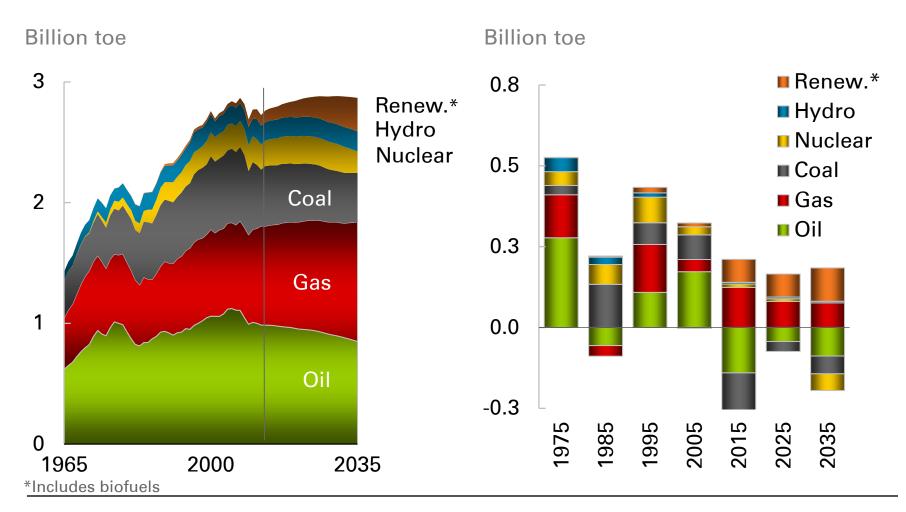


Decline in oil demand, increases for natural gas & renewables





Ten year increments by fuel

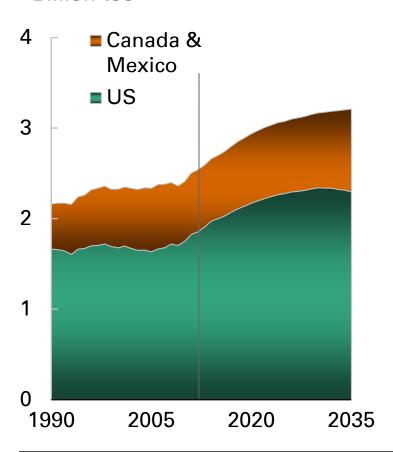


North American output growth led by gas, oil & renewables



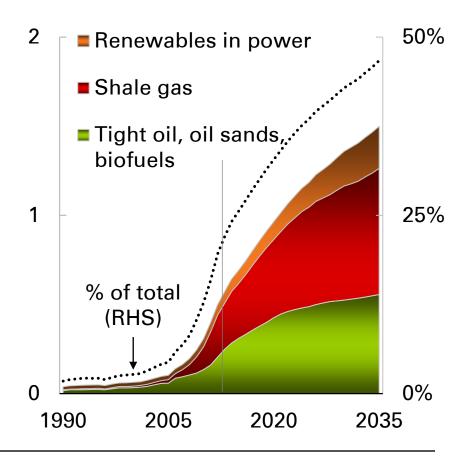


Billion toe



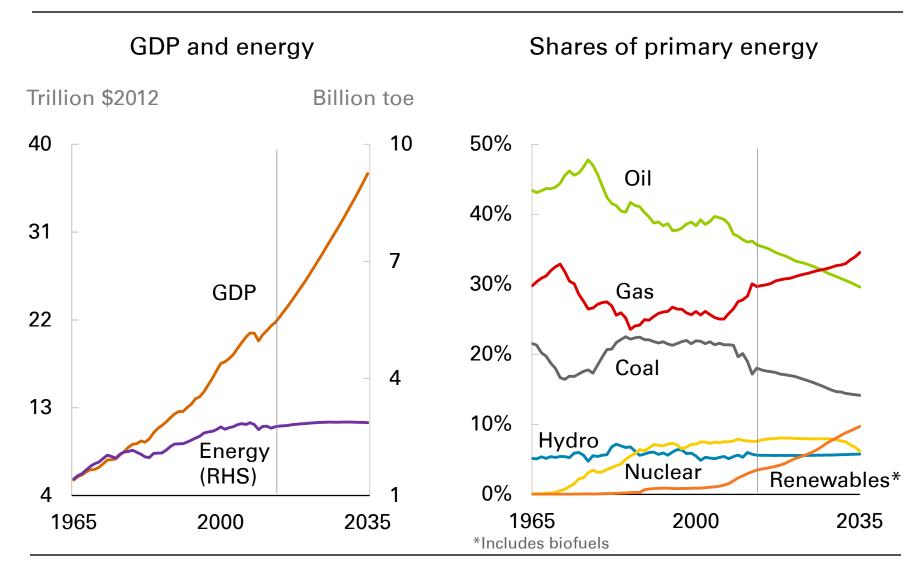
New energy forms

Billion toe



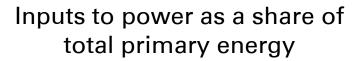




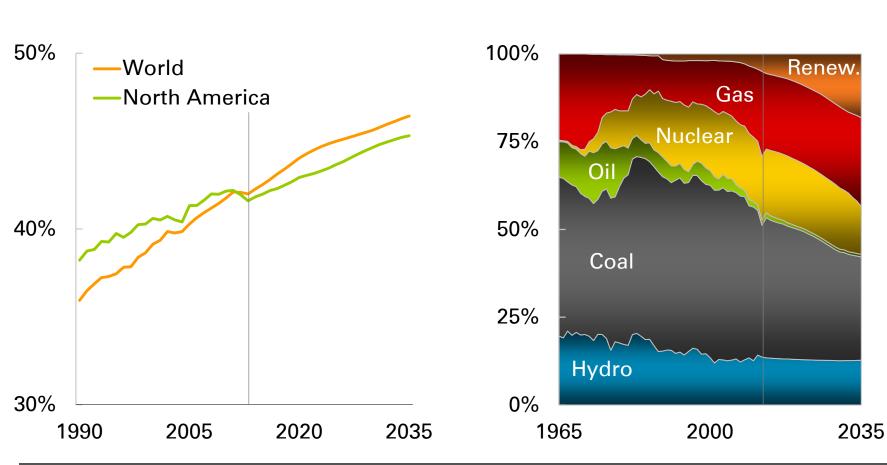






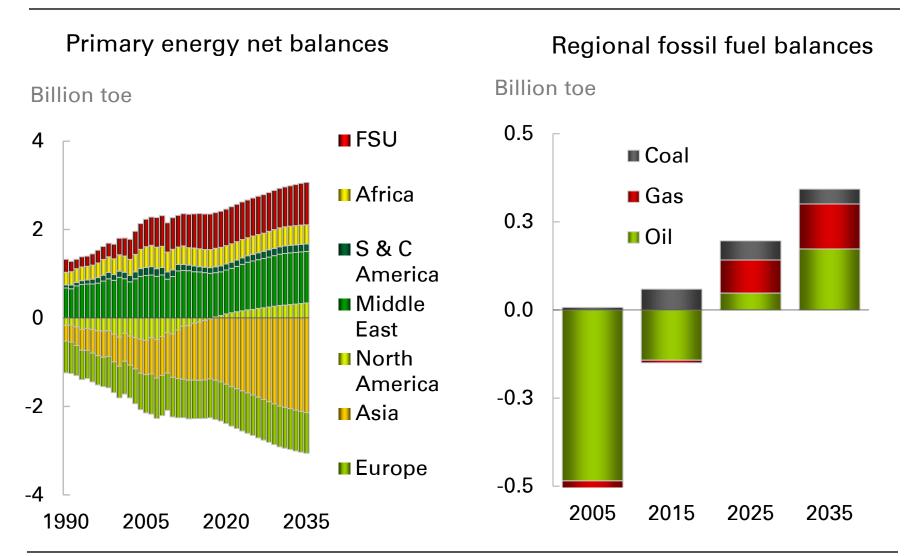


Primary inputs to North American power



North America switches from net importer to net exporter







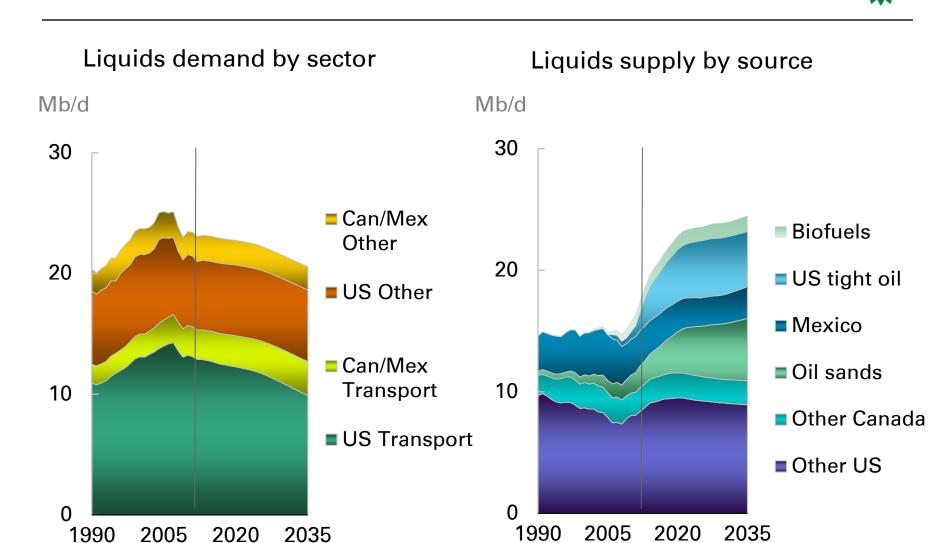
Regional energy trends

Fuel by fuel

Carbon emissions and the fuel mix

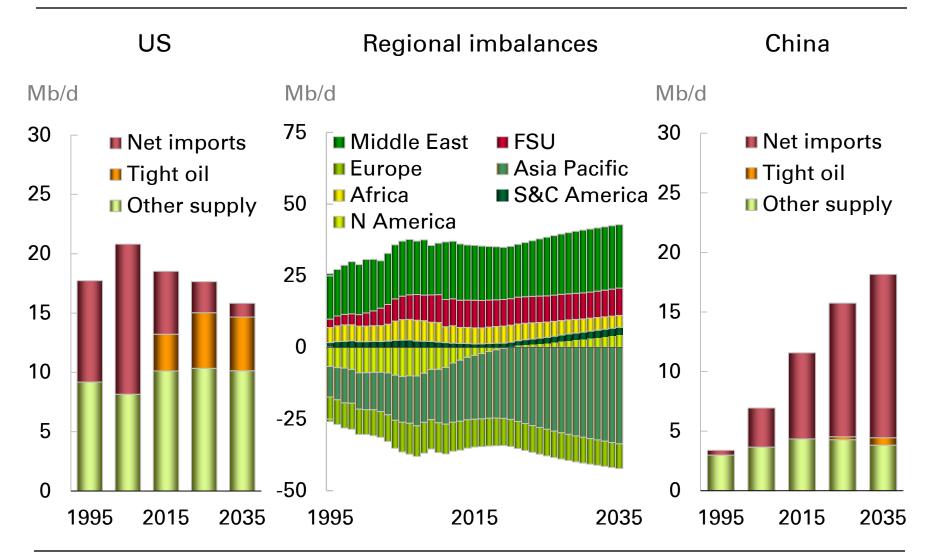


Oil: Falling transport demand and rising unconventionals







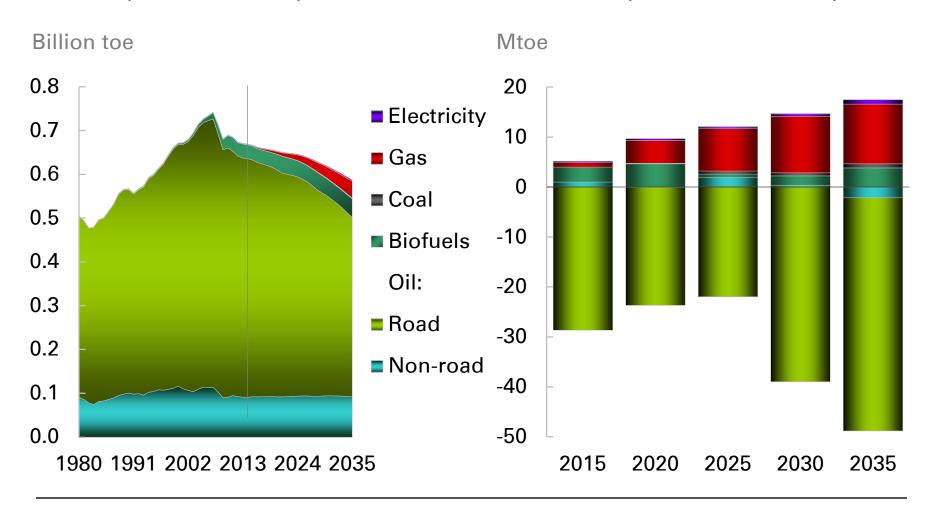


Regional transport demand declines driven by fuel economy



Transport demand by fuel

Five year increments by fuel



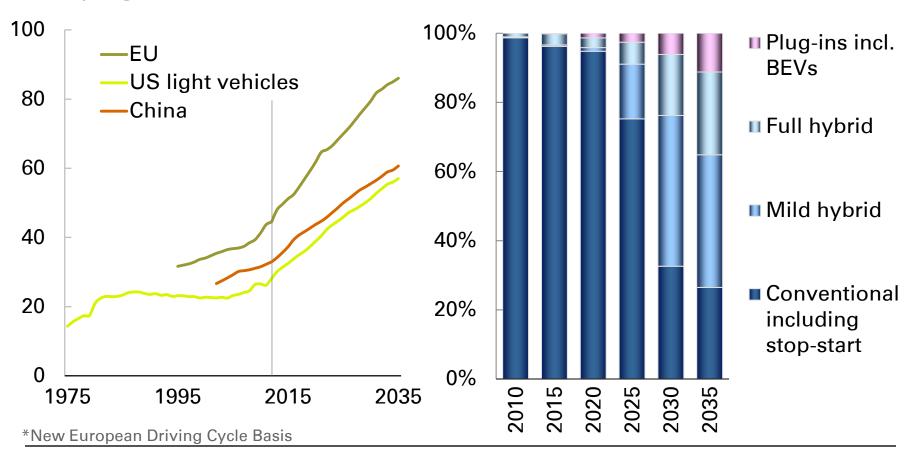
Policy and technology enable efficiency improvements





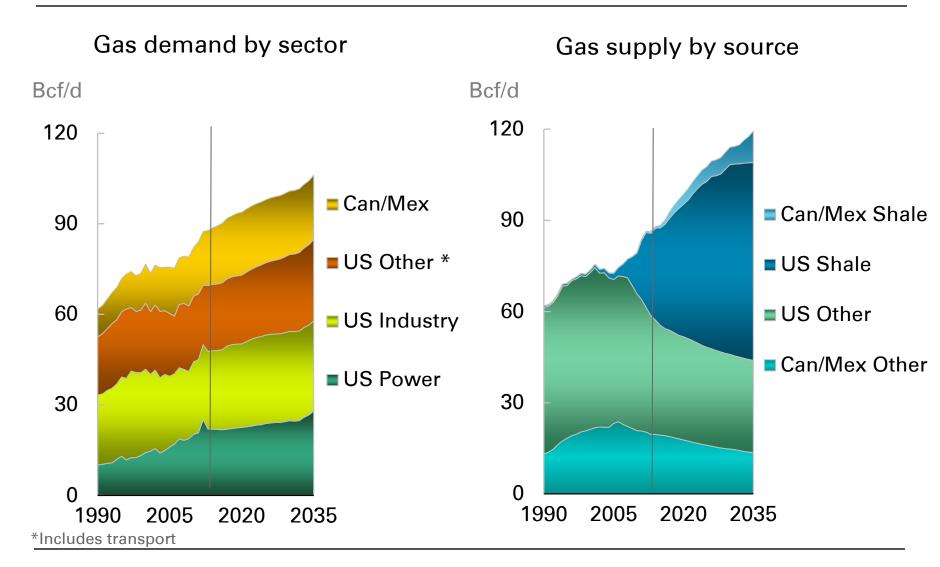
Vehicles sales by type

Miles per gallon*



US natural gas use rises in all sectors; shale dominates supply

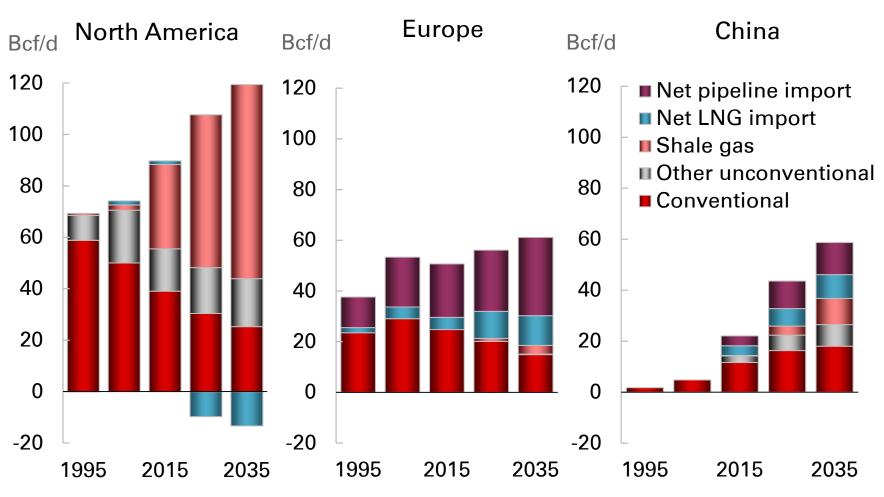












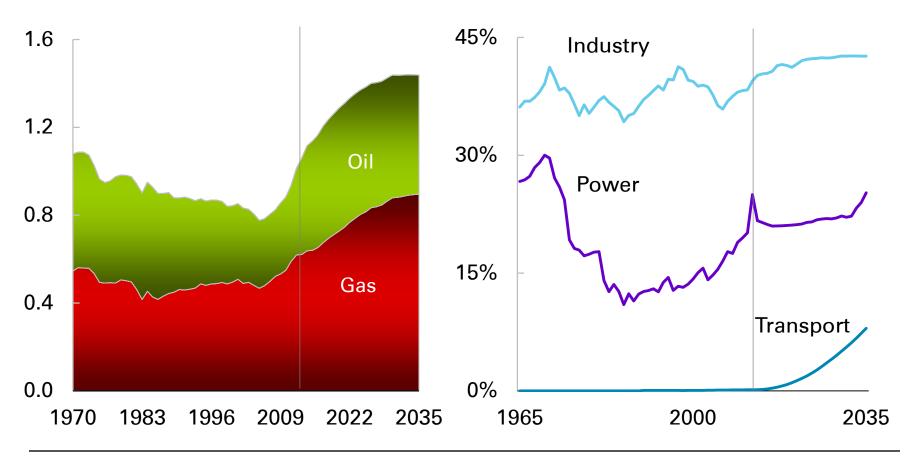




US oil and gas supply

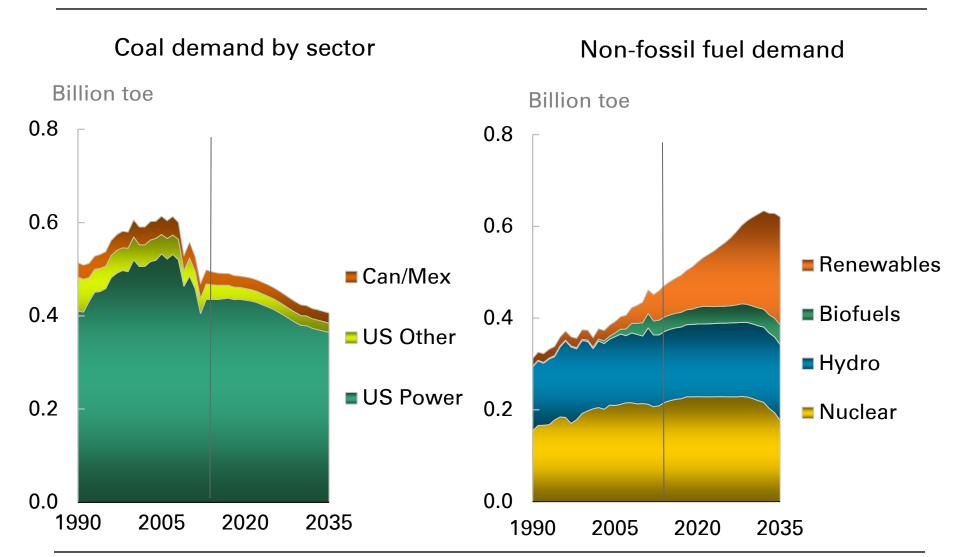
Gas share of US sector demand

Billion toe



North American coal demand declines; renewables expand





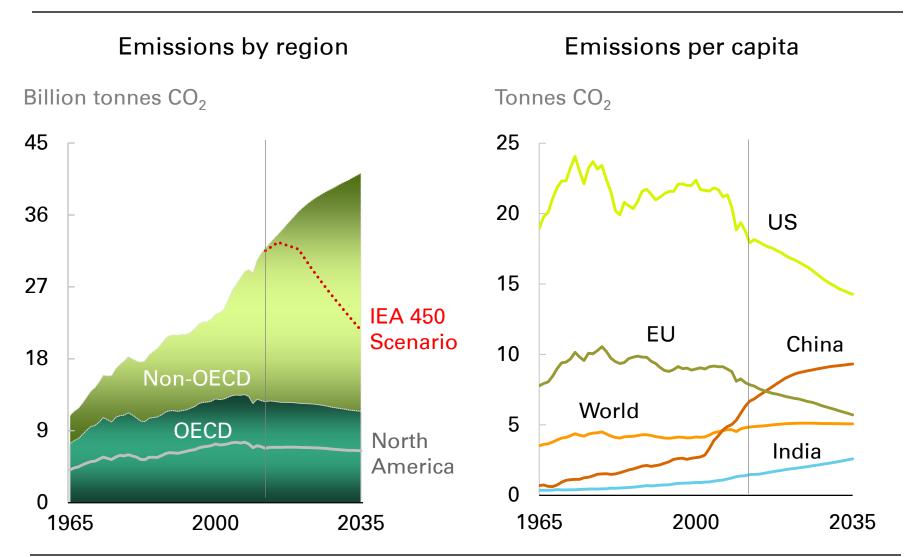


Regional energy trends
Fuel by fuel

Carbon emissions and the fuel mix







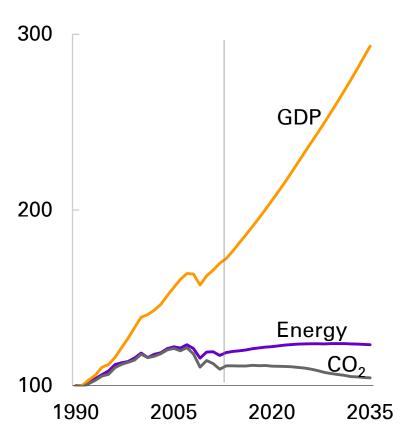
Efficiency, not fuel mix, restrains North American emissions



GDP, energy and emissions

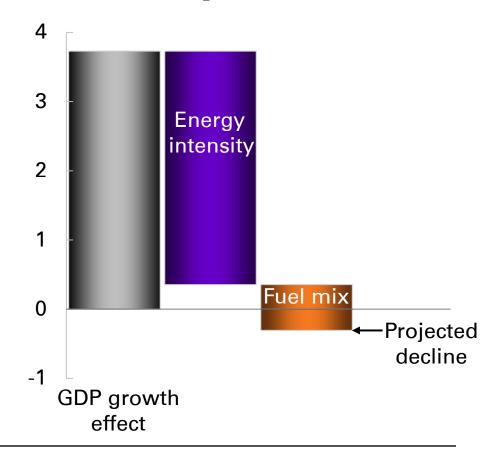
dur, energy and emissions

Index: 1990 = 100



Emissions growth 2012 to 2035

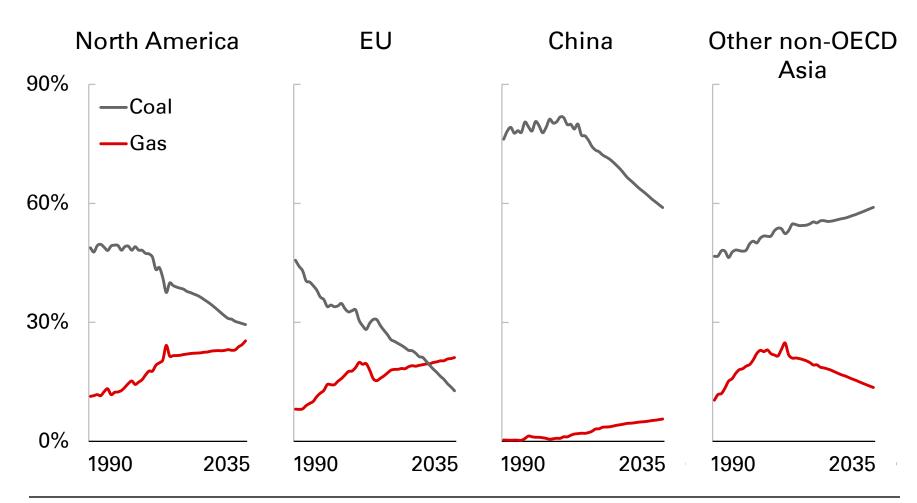
Billion tonnes CO₂







Share of power sector fuel consumption



Conclusion



Meeting the global/North American energy challenge



- Sufficient and available?
 - Yes new energy sources and efficiency improvements
 - North America leads the way
- Secure and reliable?
 - Mixed improving for North
 America, a concern for others
- Sustainable?
 - Room for improvement, even with lower North American emissions