



# Fossil Fuel Reliance: A Global Perspective

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# Outline

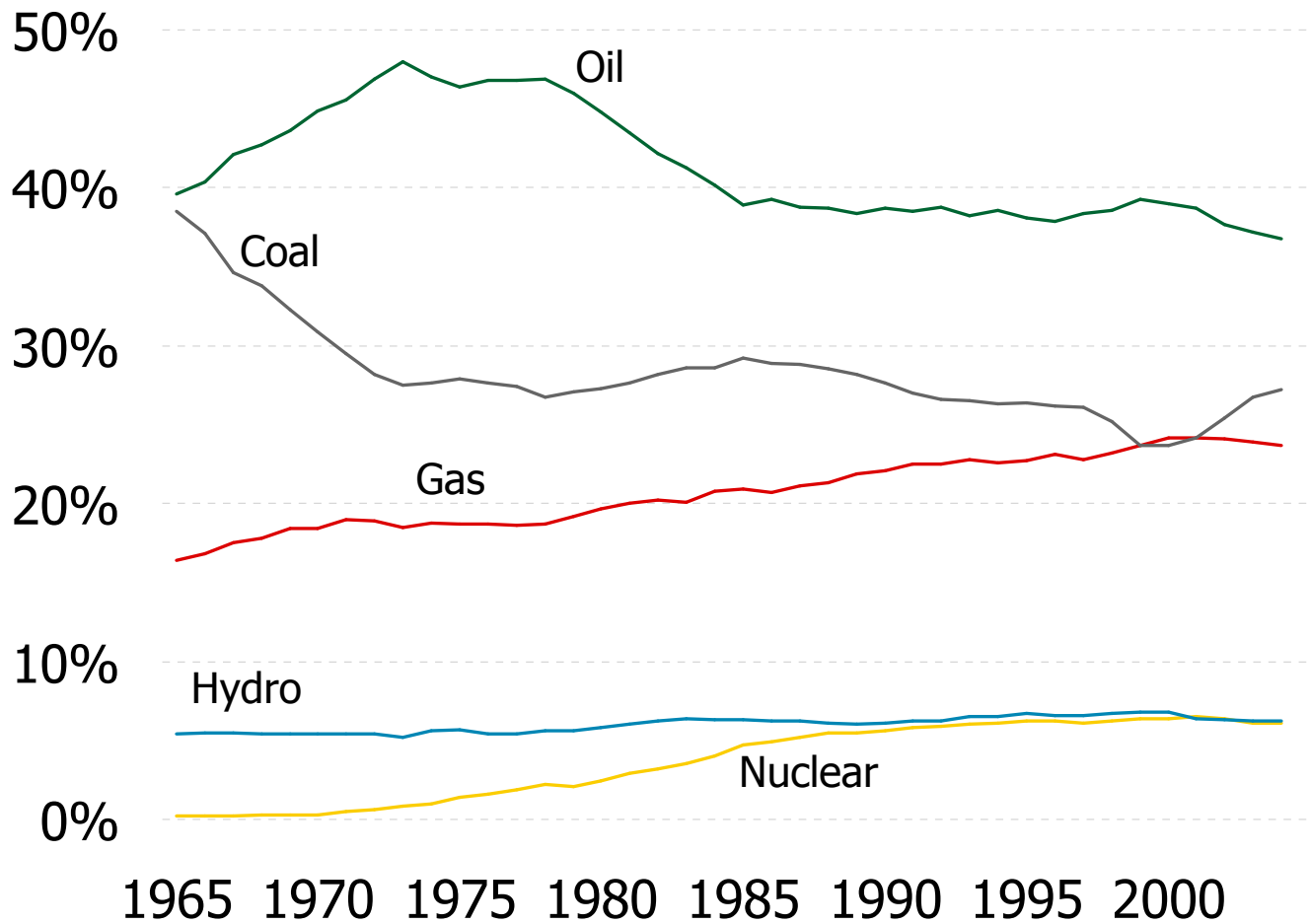


- Is the world more dependent on fossil fuels?
  - Is production increasingly concentrated?
  - Is trade?
- What is the US story?
- What SHOULD we worry about?
- Conclusions

# World fuel shares 1965-2004



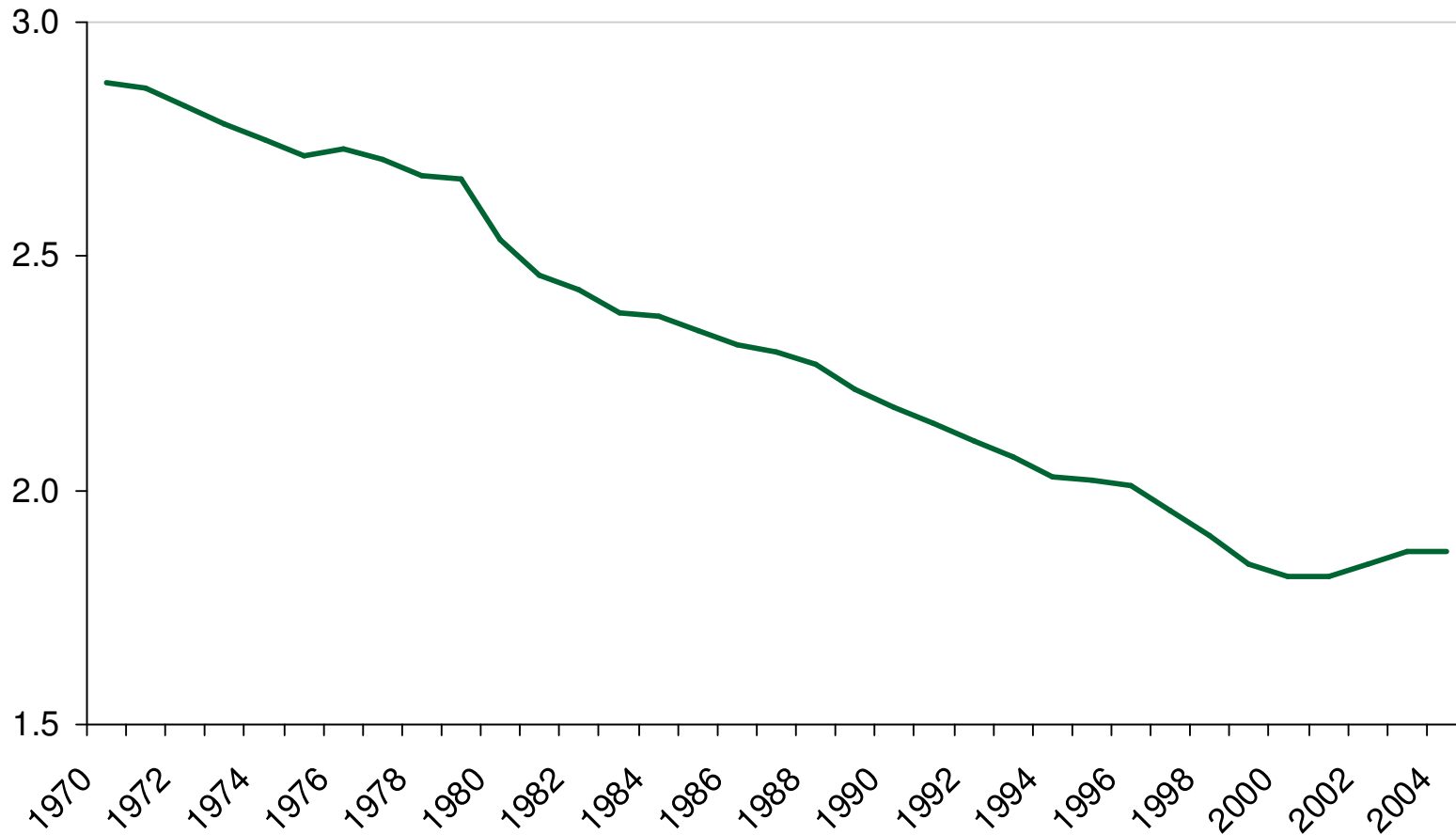
Share of world primary energy consumption



# Is the world more dependent on fossil fuels?



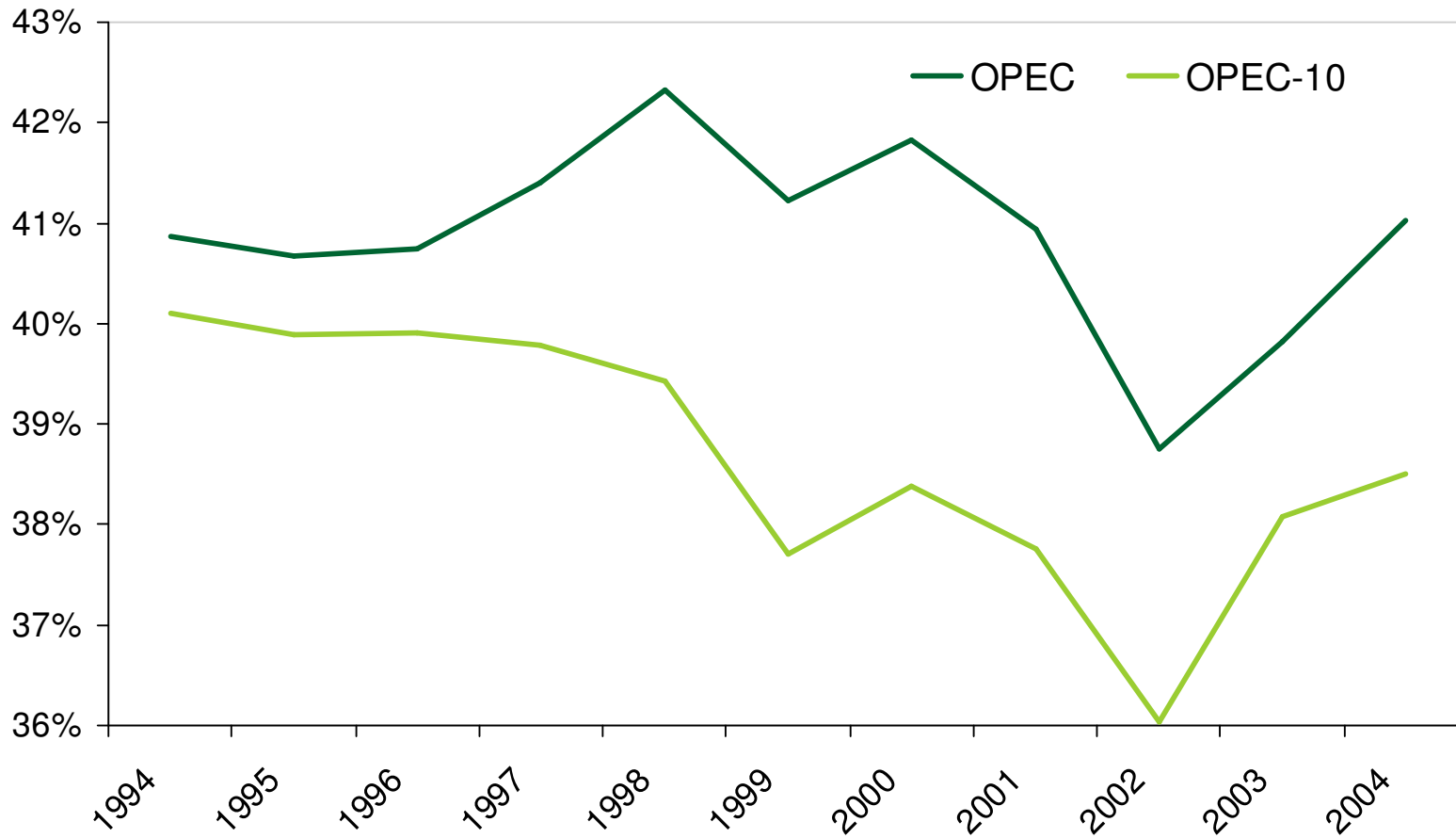
Boe fossil fuels / \$1000 real 2000 GDP



# Is oil production more concentrated?



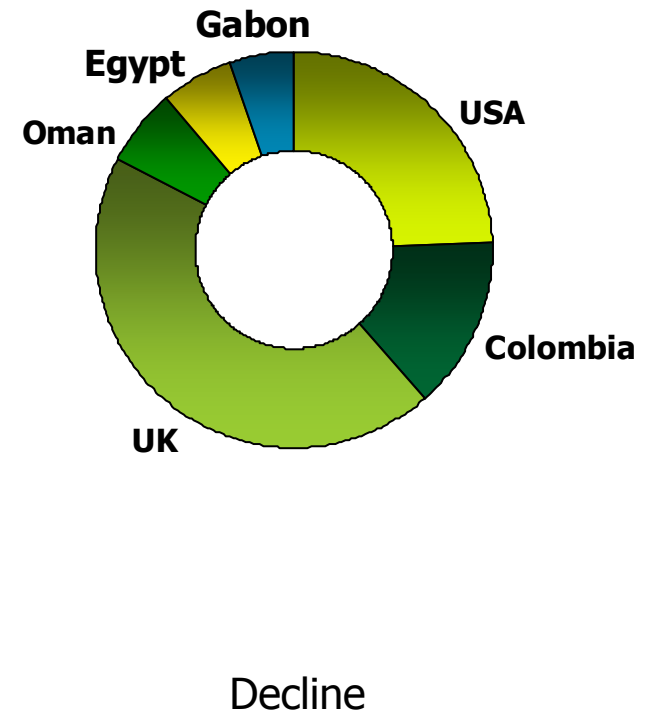
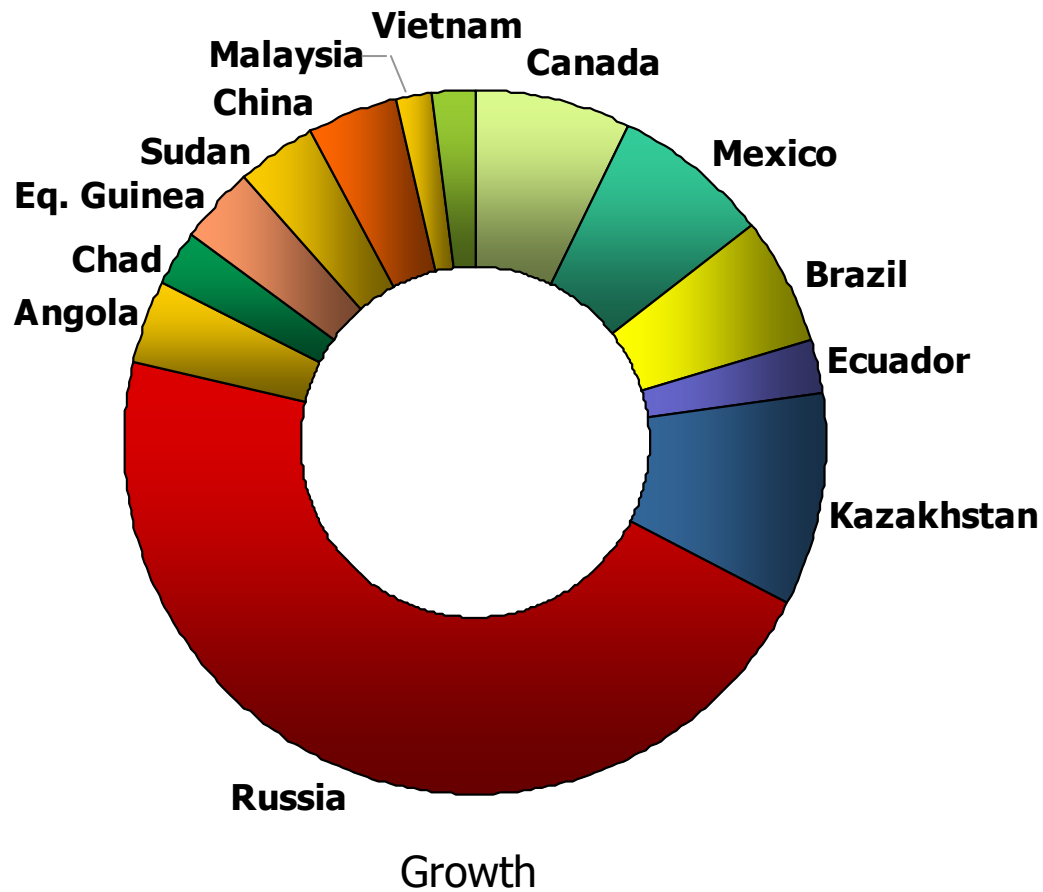
OPEC Share of global oil production



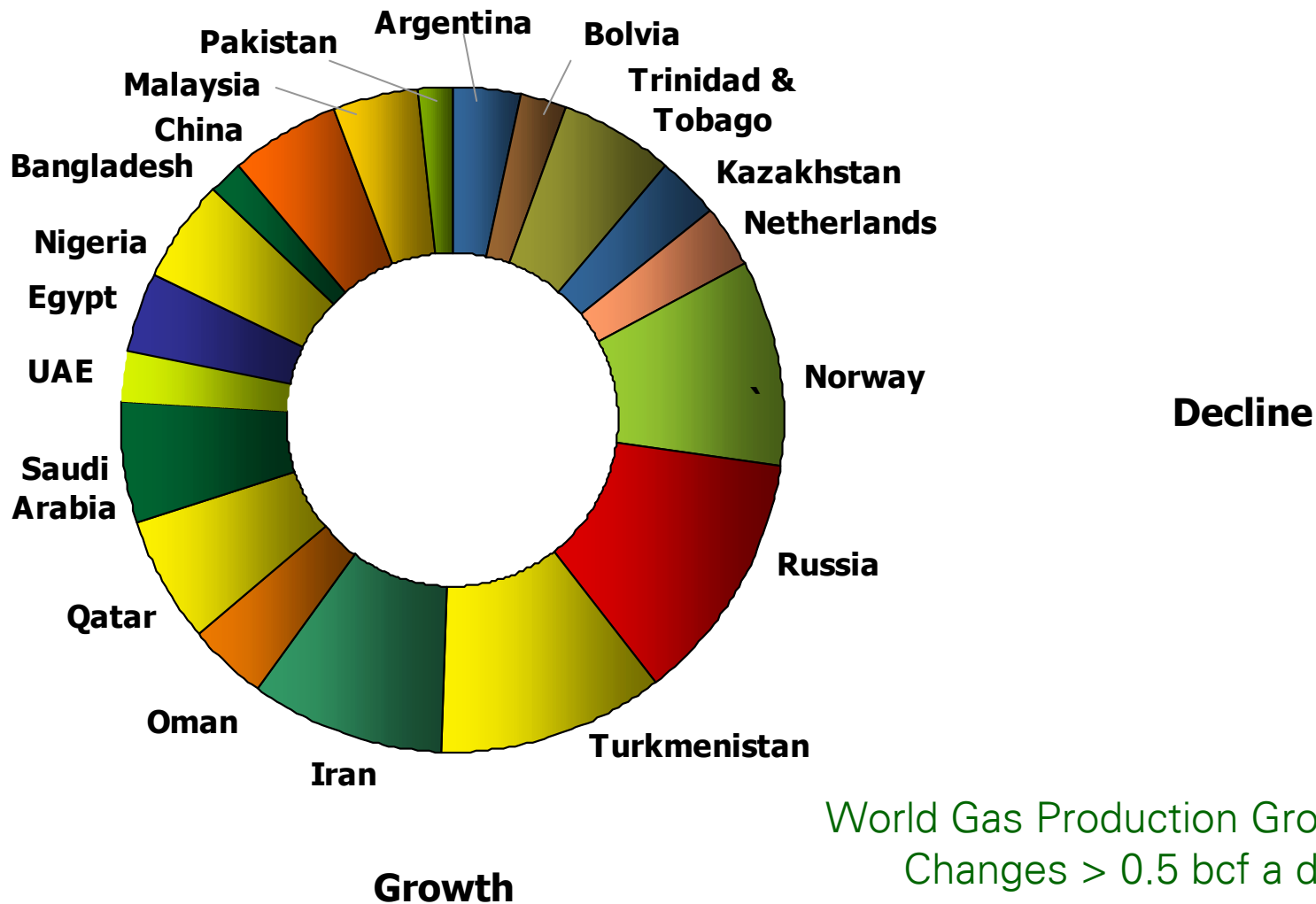
# Is oil production more concentrated?



Non-OPEC Production Changes 1999-2004  
Changes > 100,000 b/d over 5 yr



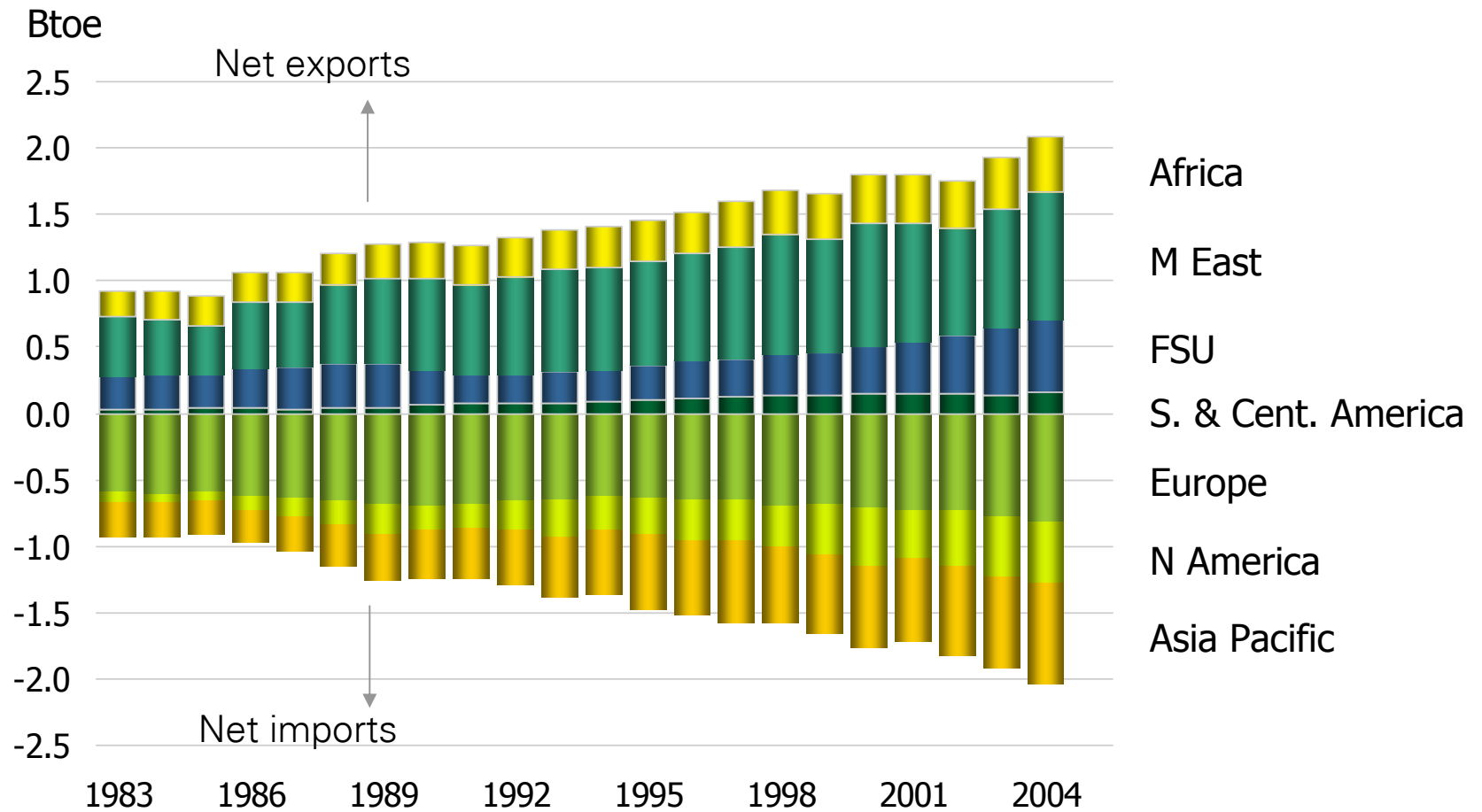
# Is gas production more concentrated?



# Global energy trade



## Net inter-regional energy trade

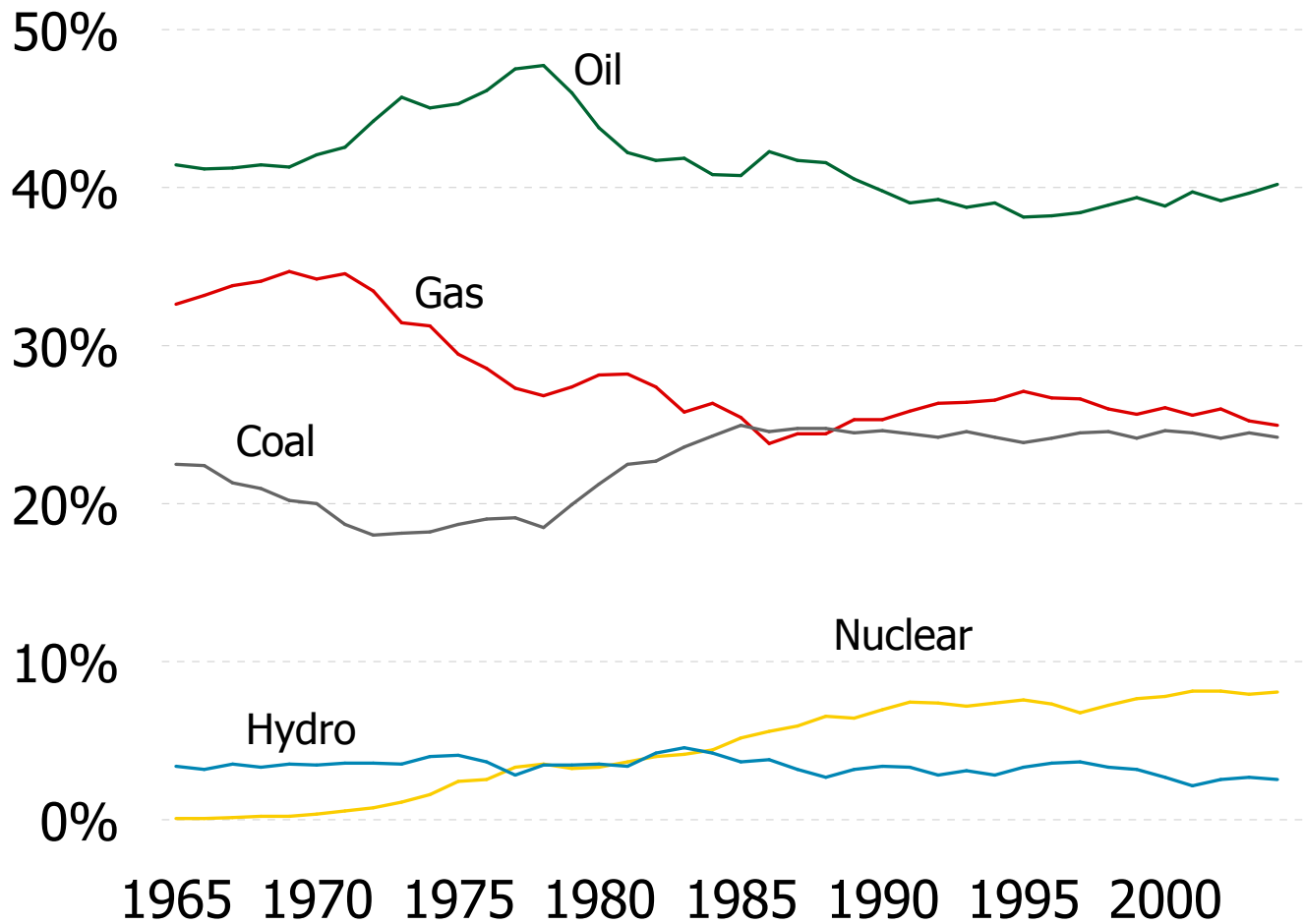




# US fuel shares 1965-2004



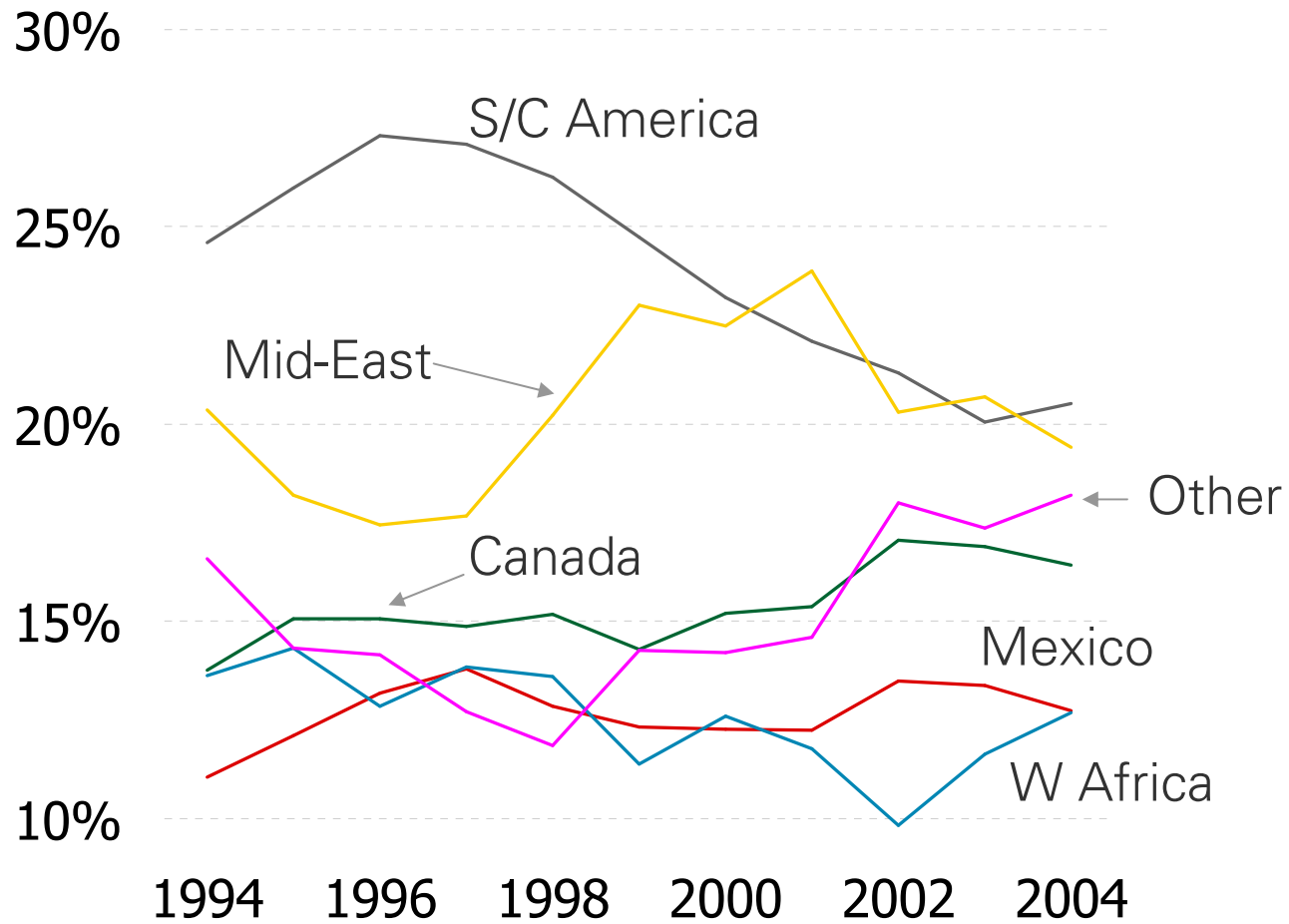
Share of US primary energy consumption



# Sources of US oil imports 1994-2004



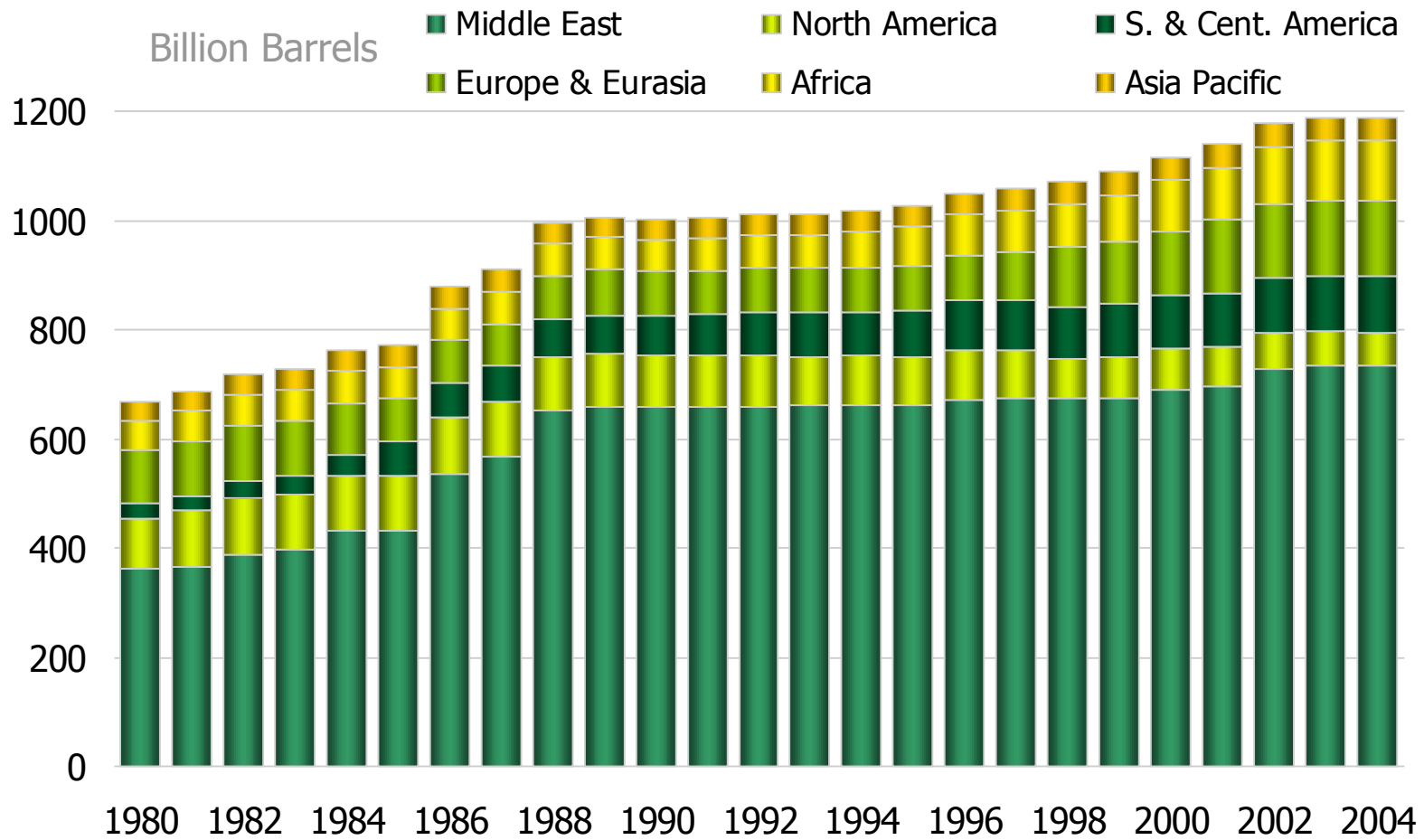
Share of gross imports



What should we be worried about?



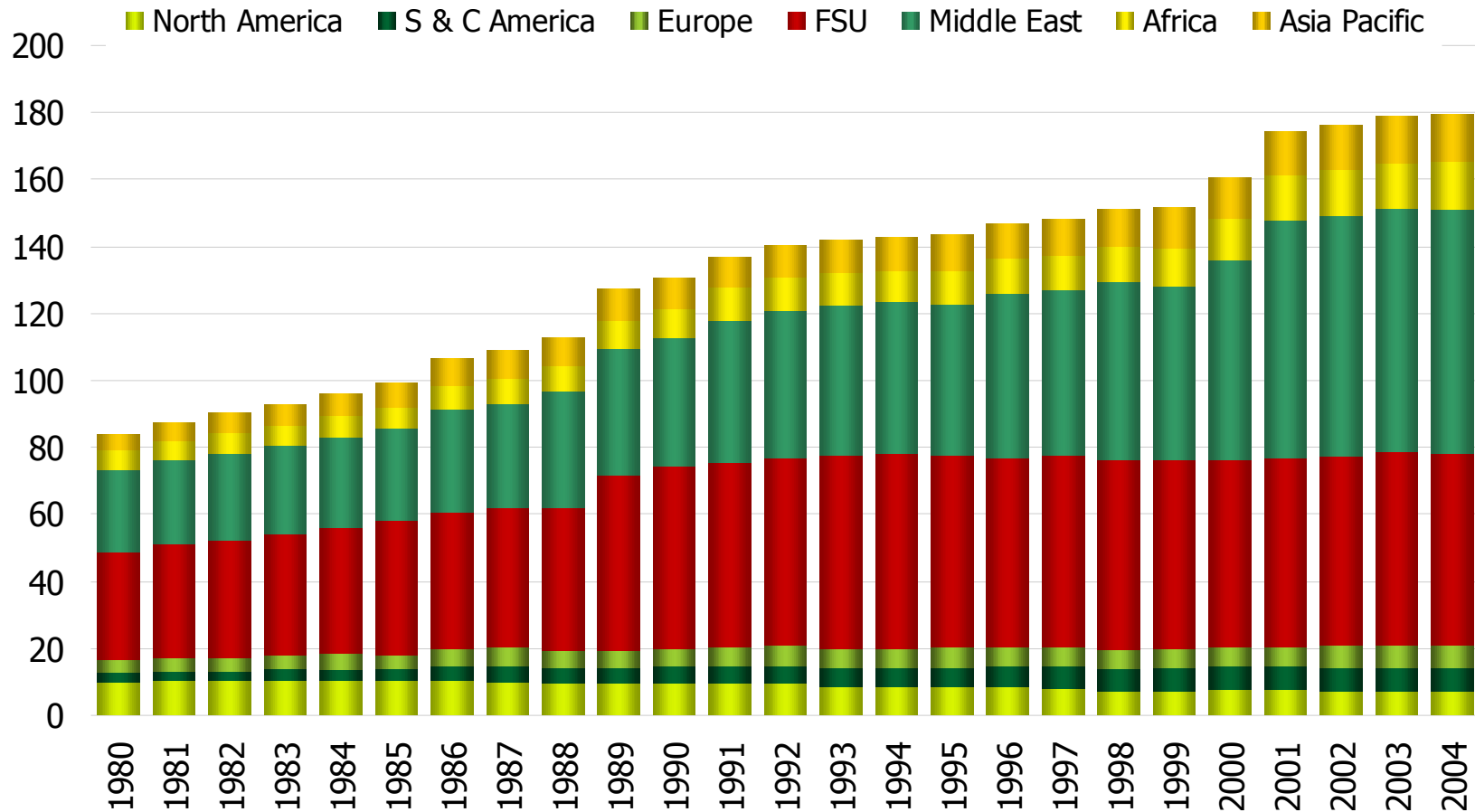
# World oil reserves?



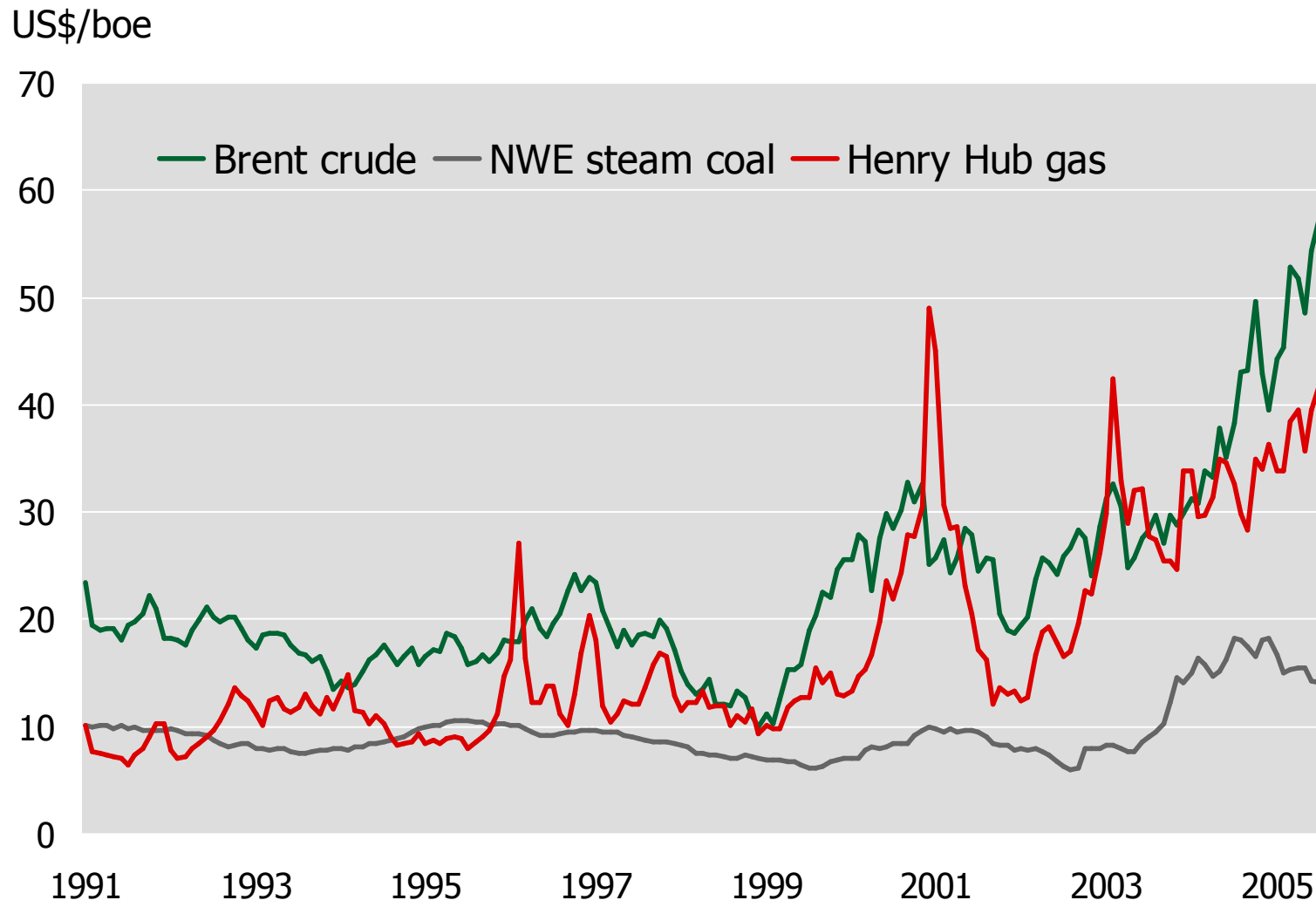
# World natural gas reserves?



Trillion cubic metres



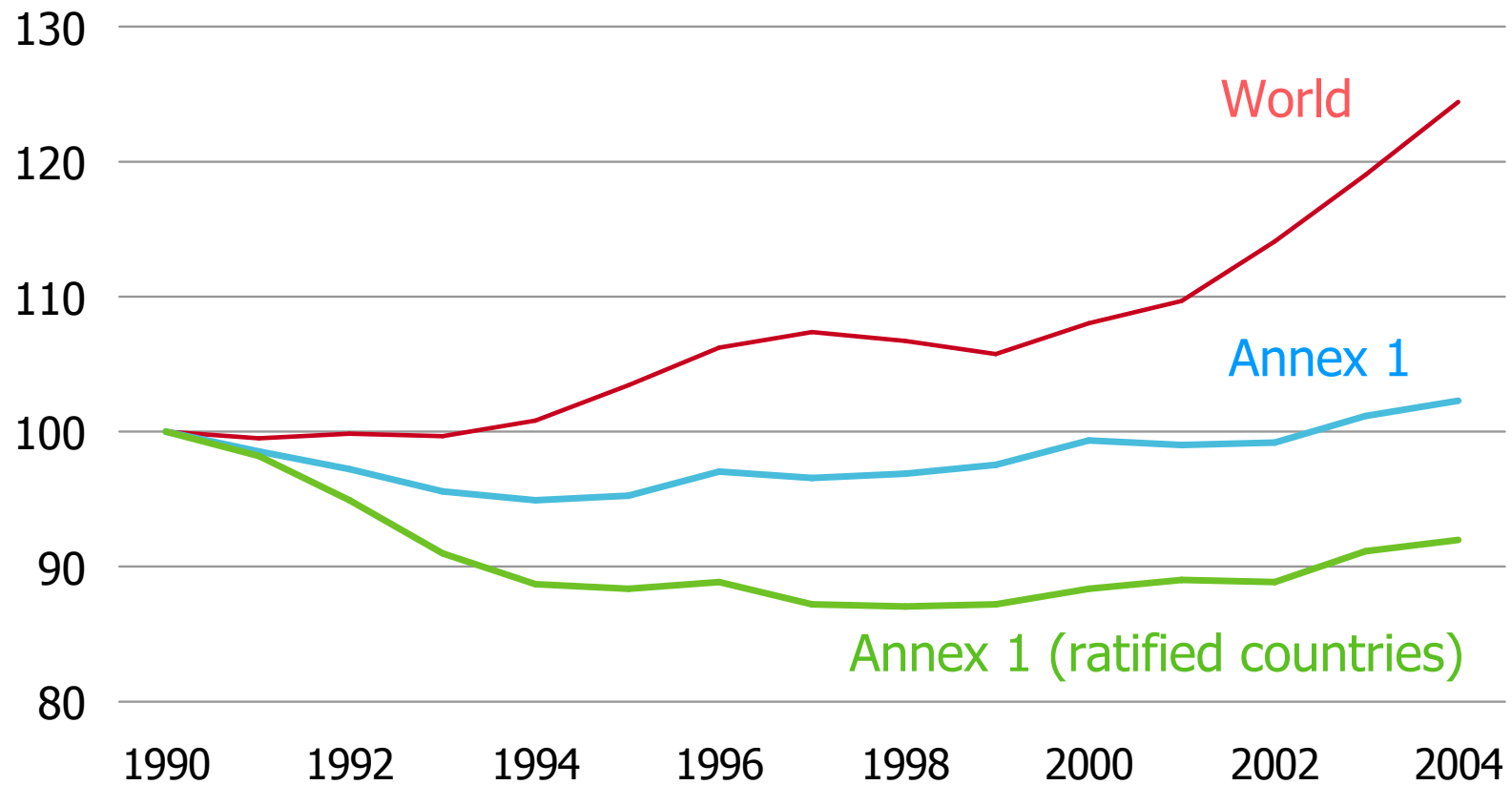
# Fossil fuel prices



# World carbon emissions



Index (1990 = 100)



# Conclusions



- Global fossil fuel shares stable
- Mid-East share in fossil fuel trade stable
- Global oil and gas production NOT more concentrated
- US fossil fuel shares stable
- US import dependence NOT more concentrated
- Resources not a constraining factor
- Carbon emissions on the rise