

Energy and Environmental Challenges in the New Global Economy

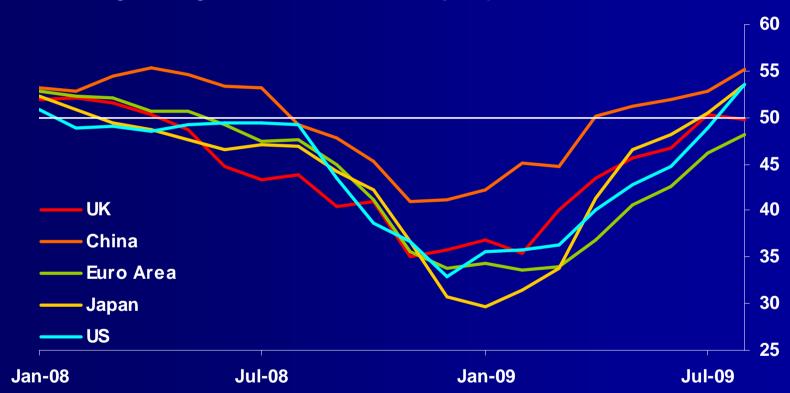
Andrew Sentance External Member Monetary Policy Committee

Presentation to British Institute of Energy Economics, BIS Conference Centre, London

21 September 2009

World manufacturing activity

Purchasing managers' indices, seasonally adjusted

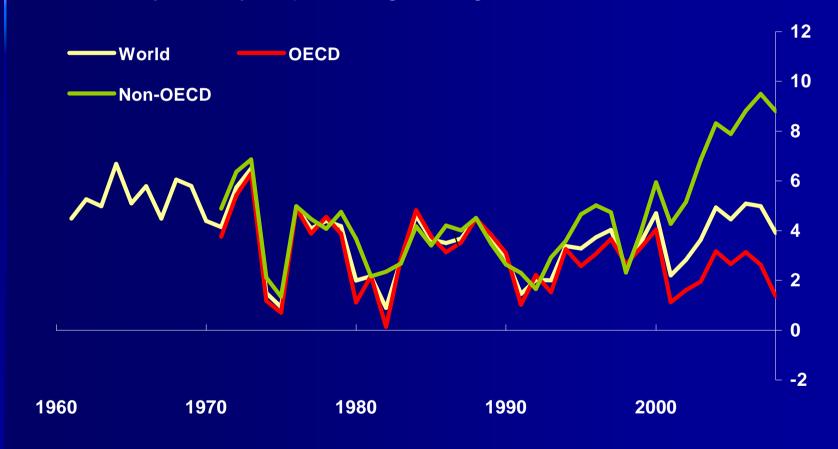


Note: Index number over 50 indicates expansion; below 50 indicates contraction

Source: Thomson Datastream, CLSA

World economic growth, 1960 - 2008

Real GDP, year on year percentage change

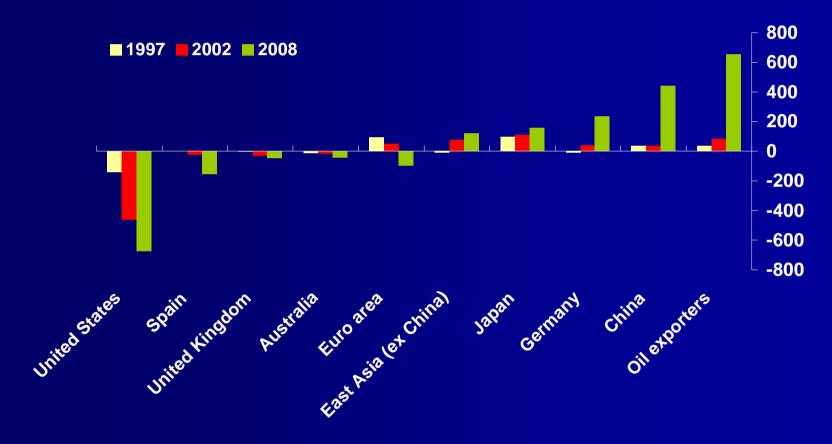


Note: GDP measured at market exchange rates

Source: IMF, OECD, Bank Calculations

Selected current account imbalances

US \$, billion

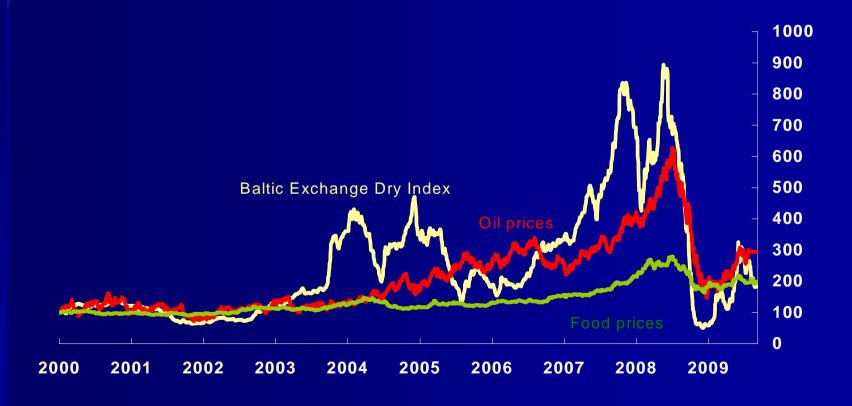


Note: 'Oil exporters' includes OPEC countries, Russia and Norway; 'East Asia ex China' includes Hong Kong, Indonesia, Malaysia, Korea, Philippines, Singapore, Taiwan and Thailand

Source: IMF April 2009 WEO

Oil and commodities prices

Exchange traded commodities, index 1 Jan 2000 = 100

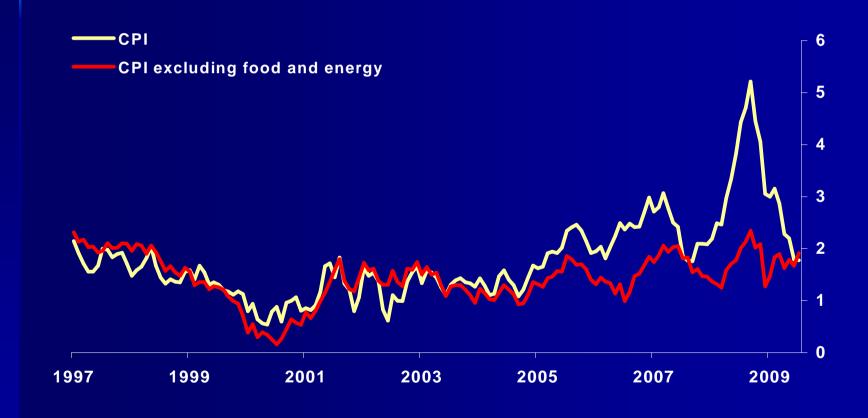


Note: Oil price is Brent forward price for delivery in 10-21 days time

Source: Thomson Datastream

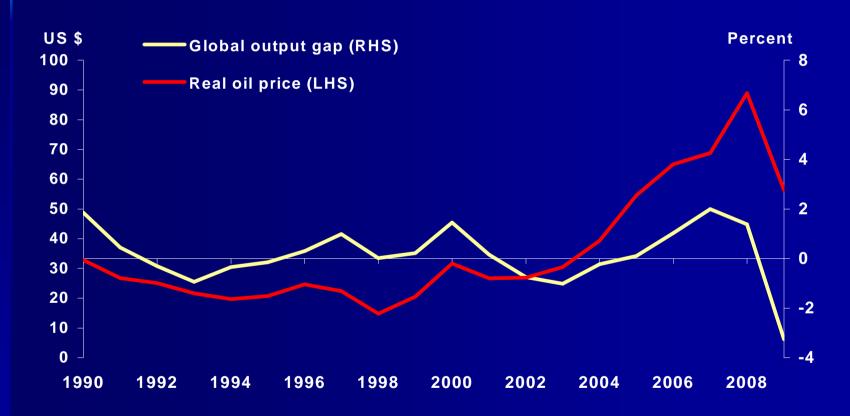
UK consumer price inflation, 1997 - 2009

Percentage change on a year earlier



Source: Office for National Statistics

Real oil price and global output gap

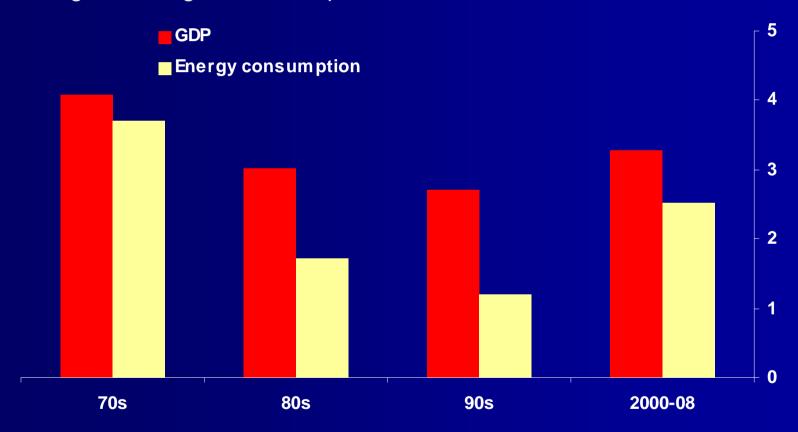


Note: 2009 is an average of daily series to 9th Sept 2009; Oil Prices are deflated by US consumption deflator

Source: IMF, Thomson Datastream, August Consensus forecast and Bank calculations

World GDP growth and energy consumption

Average annual growth rates, percent

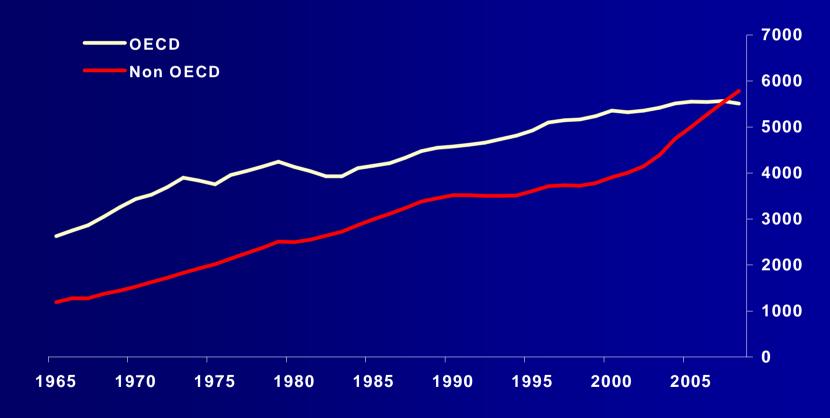


Note: Oil consumption is measured in million tonnes; other fuels in million tonnes of oil equivalent

Source: World Bank and BP Statistical Review

World primary energy use

Millions tonnes oil equivalent

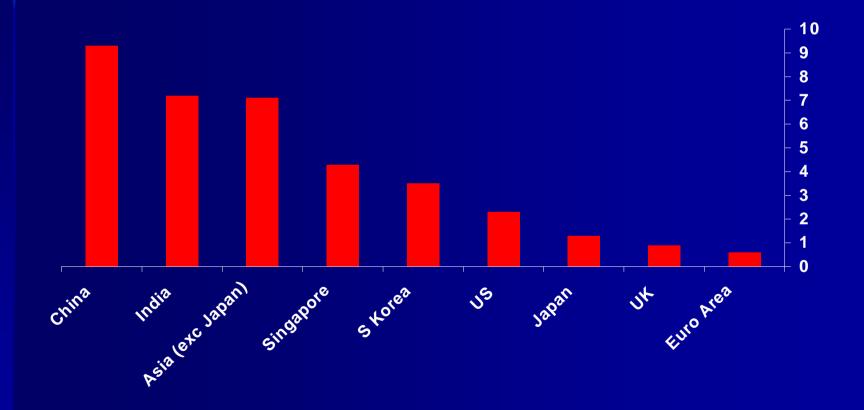


Note: Oil consumption is measured in million tonnes; other fuels in million tonnes of oil equivalent

Source: BP Statistical Review

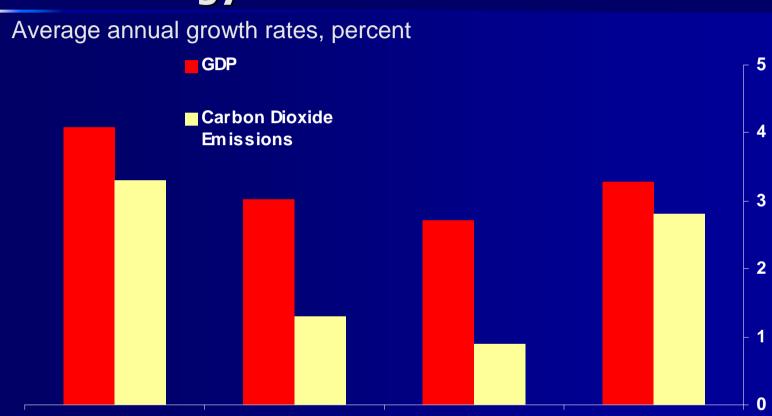
Asia leads the global recovery

2010 forecast for real GDP growth, percent



Source: August 2009 Consensus forecast

World GDP growth and CO₂ emissions from energy



90s

2000-08

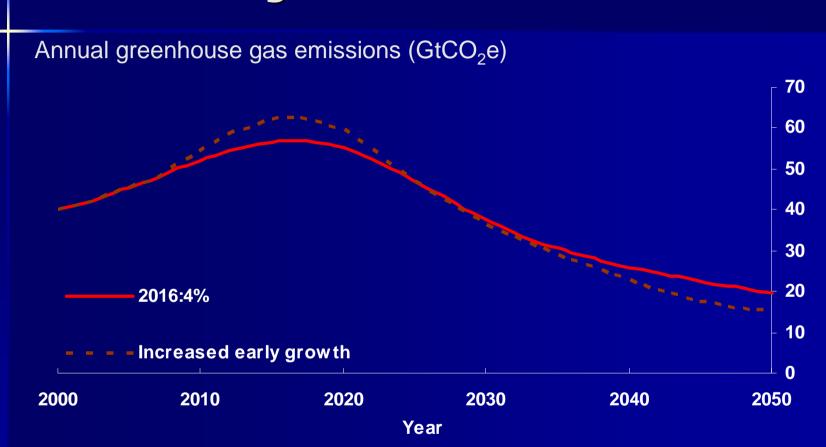
80s

Note: Carbon dioxide is measured in millions of tonnes

Source: World Bank and BP Statistical Review

70s

Sustainable global emissions scenarios



Note: 2016:4 trajectory with global emissions peaking in 2016 with subsequent reduction in total emissions of 4%

Source: Climate Change Commission

Key conclusions and policy messages

- Globalisation
- Policy co-ordination
- Global volatility and monetary policy
- The "great stability"?

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