

# Energy – The Global Outlook

KPMG's Global Energy Conference

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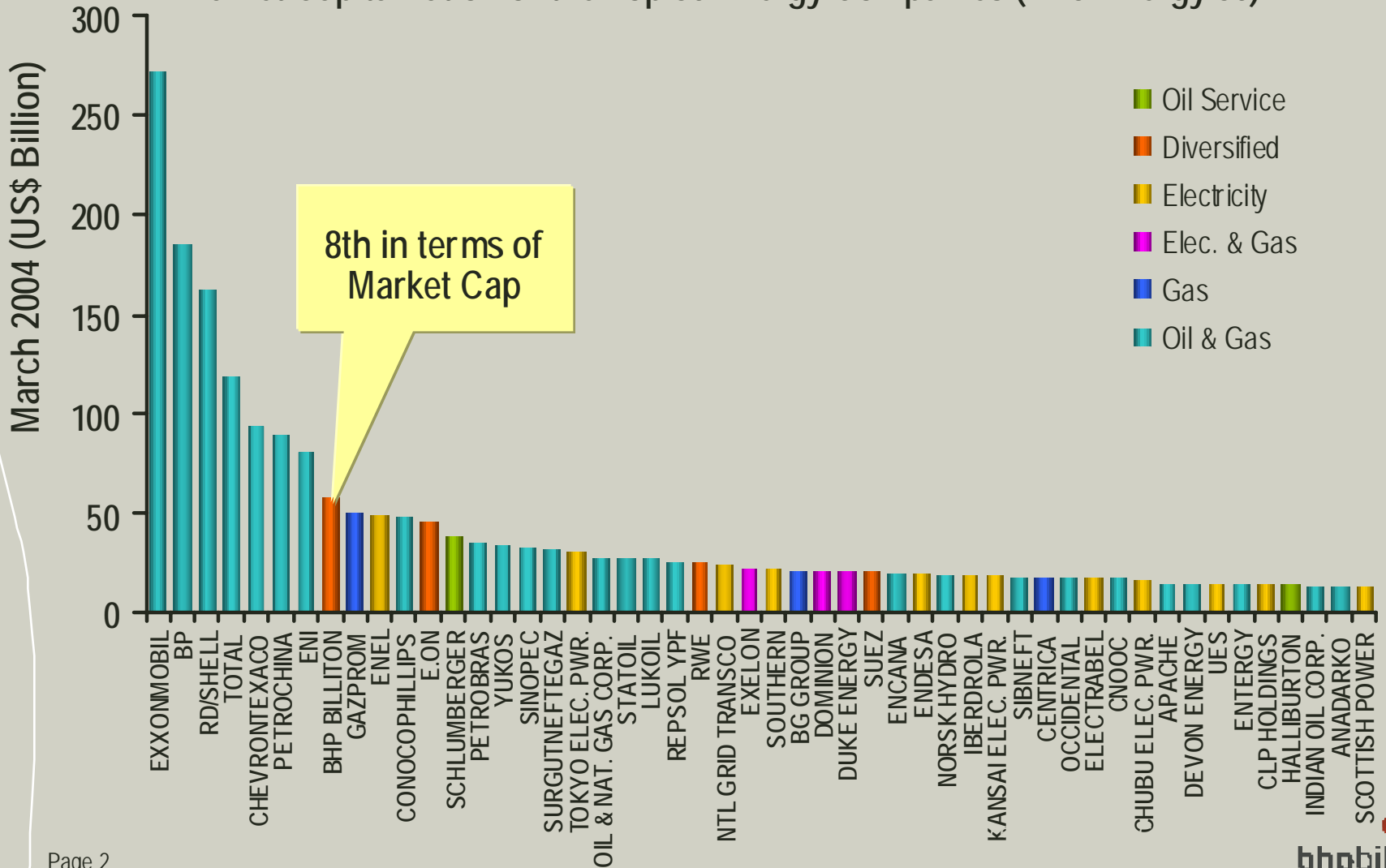
Houston, May 2004



**bhpbilliton**

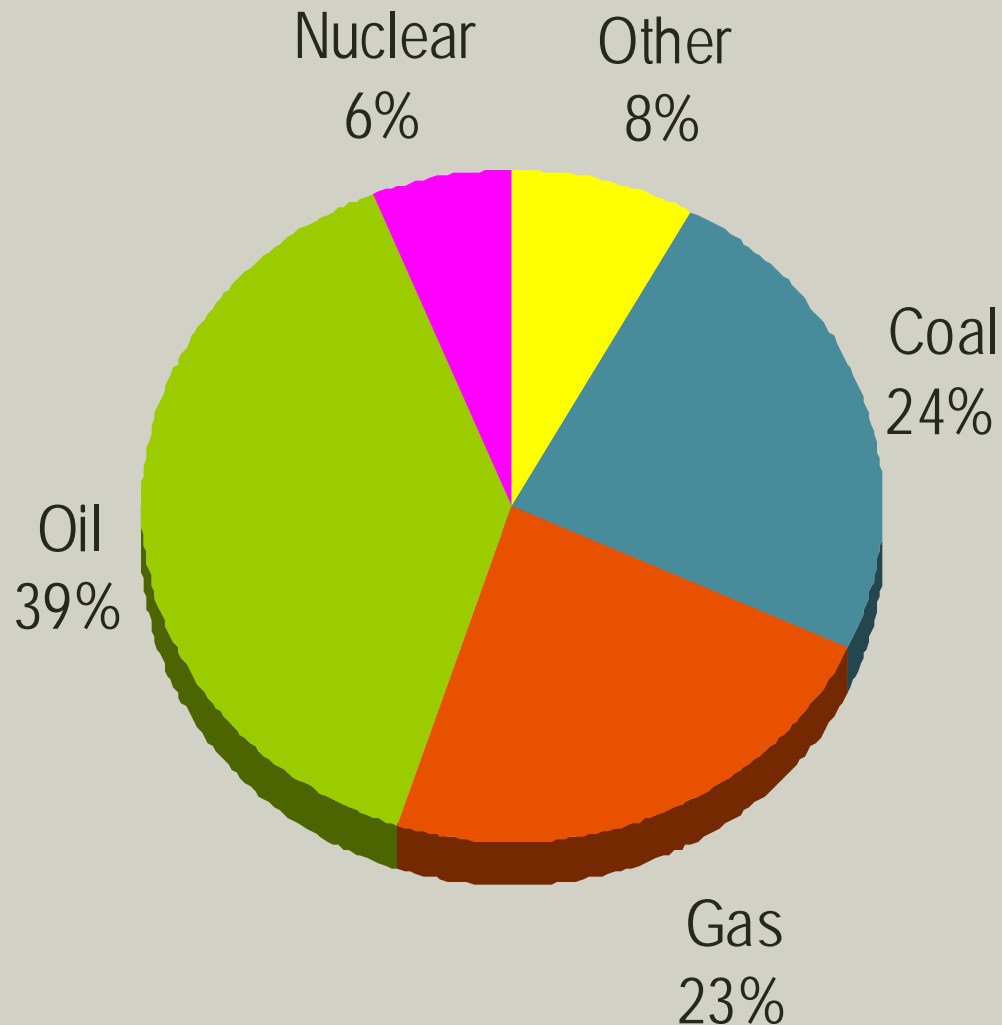
# BHP Billiton – a small to medium player in a huge energy industry

Market Capitalization of the Top 50 Energy Companies (PFC Energy 50)



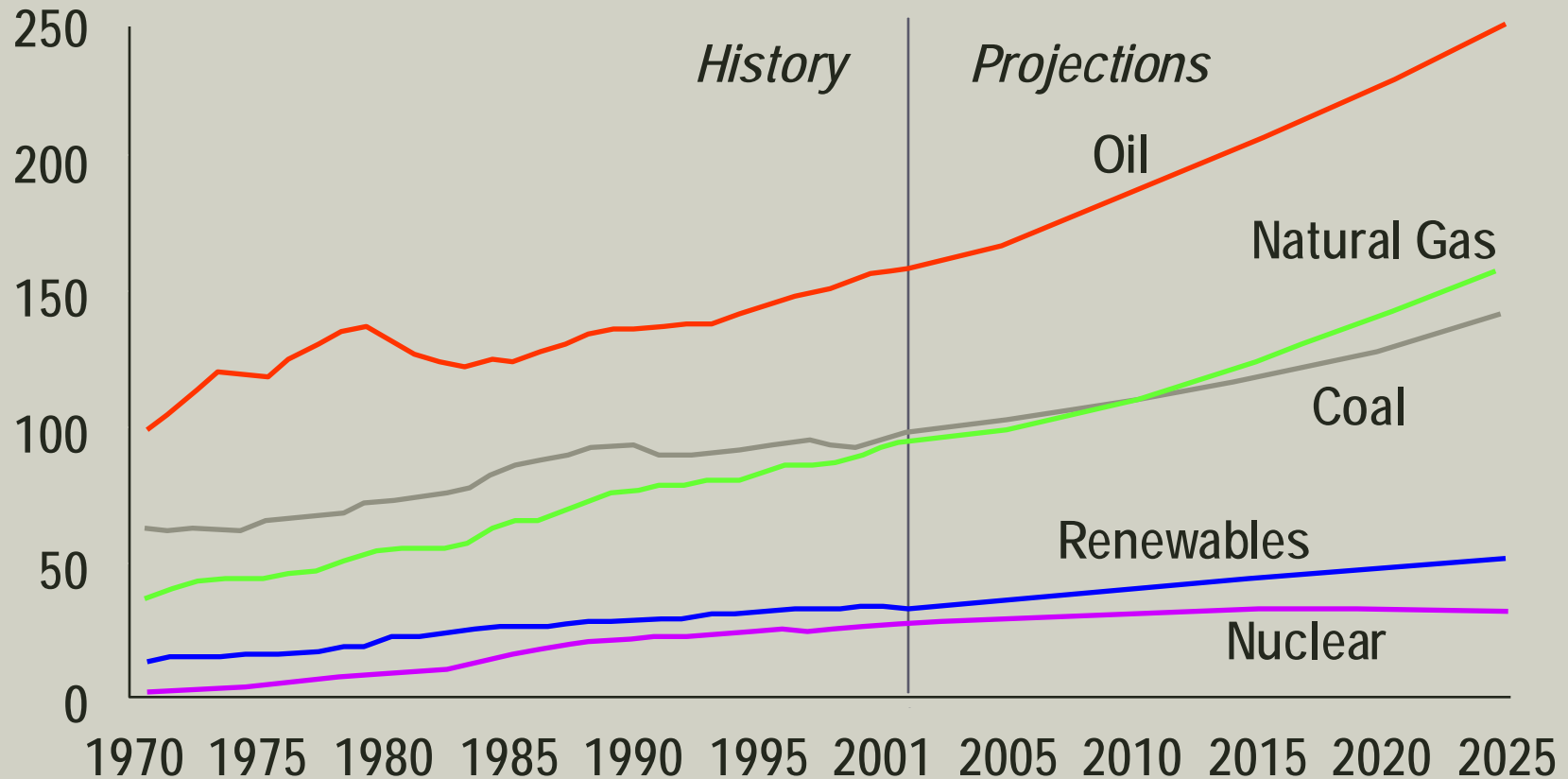
# World Primary Energy Consumption 2001

Total consumption 404 Quadrillion BTU



# World Marketed Energy Consumption by Energy Source, 1970-2025

Quadrillion BTU



Sources:

History – Energy Information Administration (EIA), International Energy Report 2001

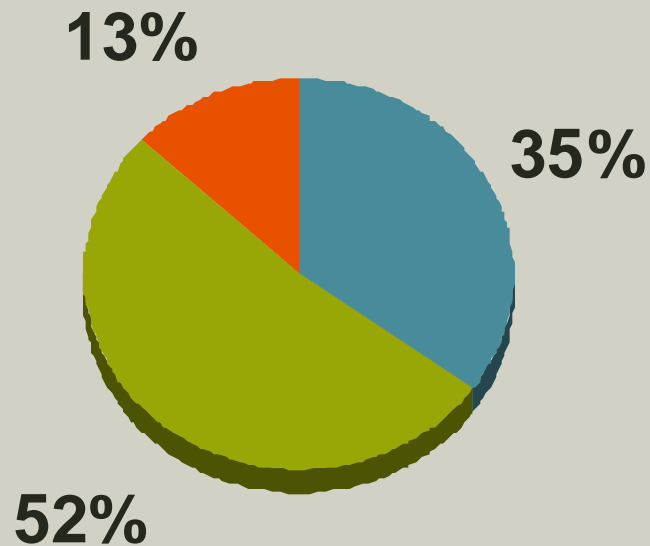
Projections: EIA, Systems for the analysis of Global Energy Markets (2004)

# Energy demand growth is inevitable

- Economic growth
- Population growth
- Industrialisation
- Urbanisation
- Growth in income per capita

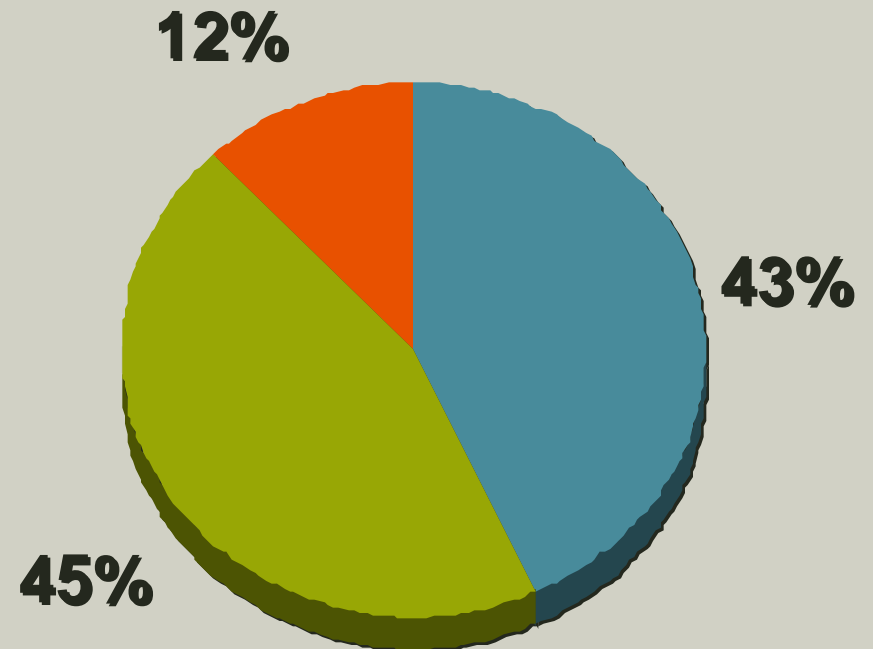
# World Primary Energy Consumption 2001 - 2025

**2001**



**404 Quadrillion BTU**

**2025**



**623 Quadrillion BTU**

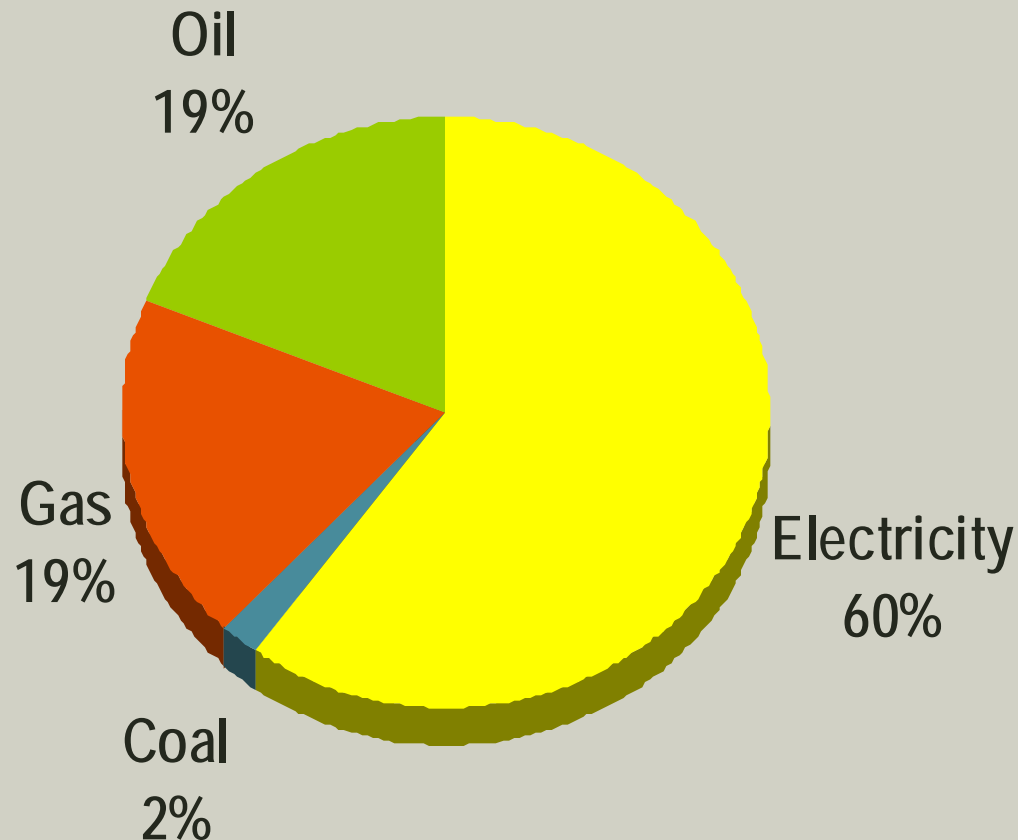
■ Developing ■ Industrial ■ FSE/EE

# Consider each fuel...

- Oil use is shifting toward transportation
- Coal will remain a very important fuel in power generation, except in Europe
- Gas will be the fastest growing energy fuel

# World Energy Investment 2001 - 2030

Total investment: 16 trillion dollars



Production accounts for the majority of investment in the supply chain – except electricity



# Significant challenges ahead

- Capital requirements
- Management of risk
  - Developing countries
  - Market reform
  - Sustainable development agenda
  - License to build



Delivering Sustainability – Opportunities and  
Challenges for the Energy Industry

19th World Energy Congress & Exhibition

5 – 9 SEPTEMBER 2004

Sydney, Australia

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**World Energy Council**

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