

# Medium-term Coal Market Report 2011

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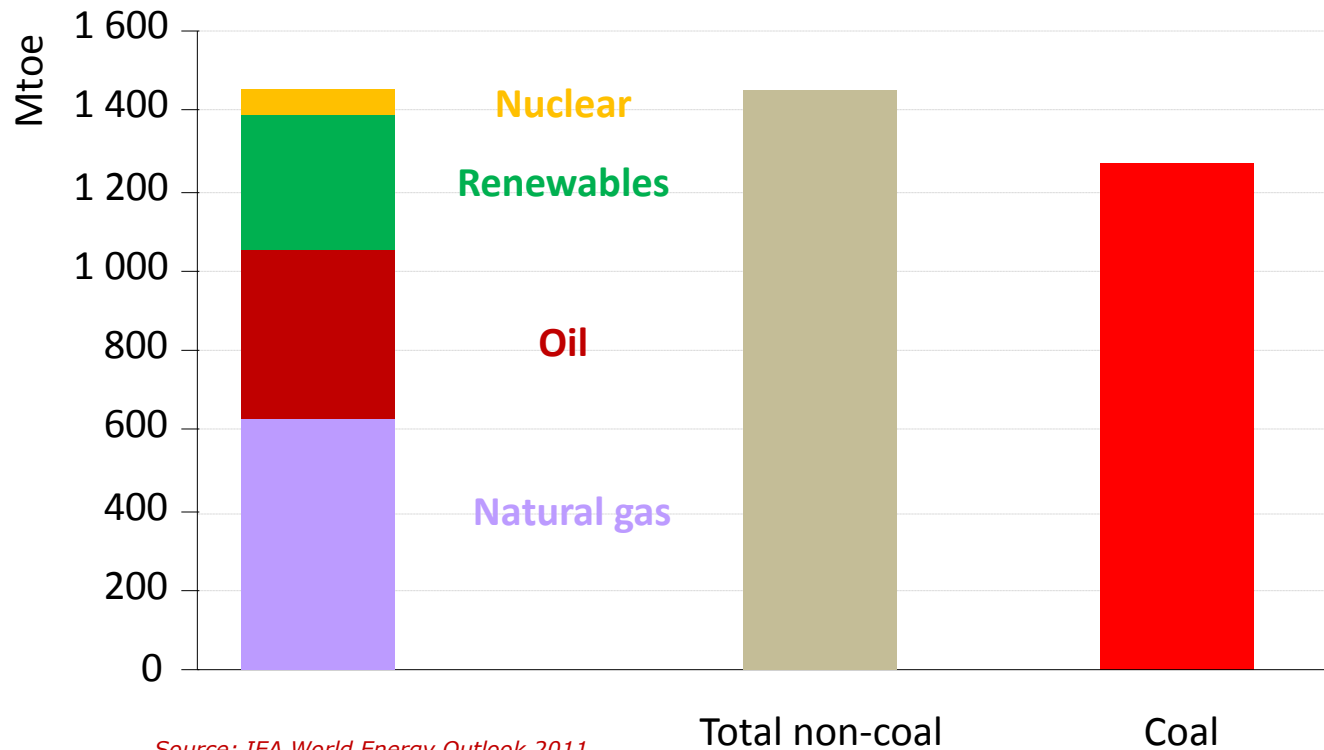
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# The context

- Uncertainties will fundamentally shape the medium-term outlook for coal including:
    - Economy activity and demand
    - Chinese growth and trade policies
    - Supply shocks - Australian floods
  - Longer-term structural changes associated with the nature and rate of decarbonisation
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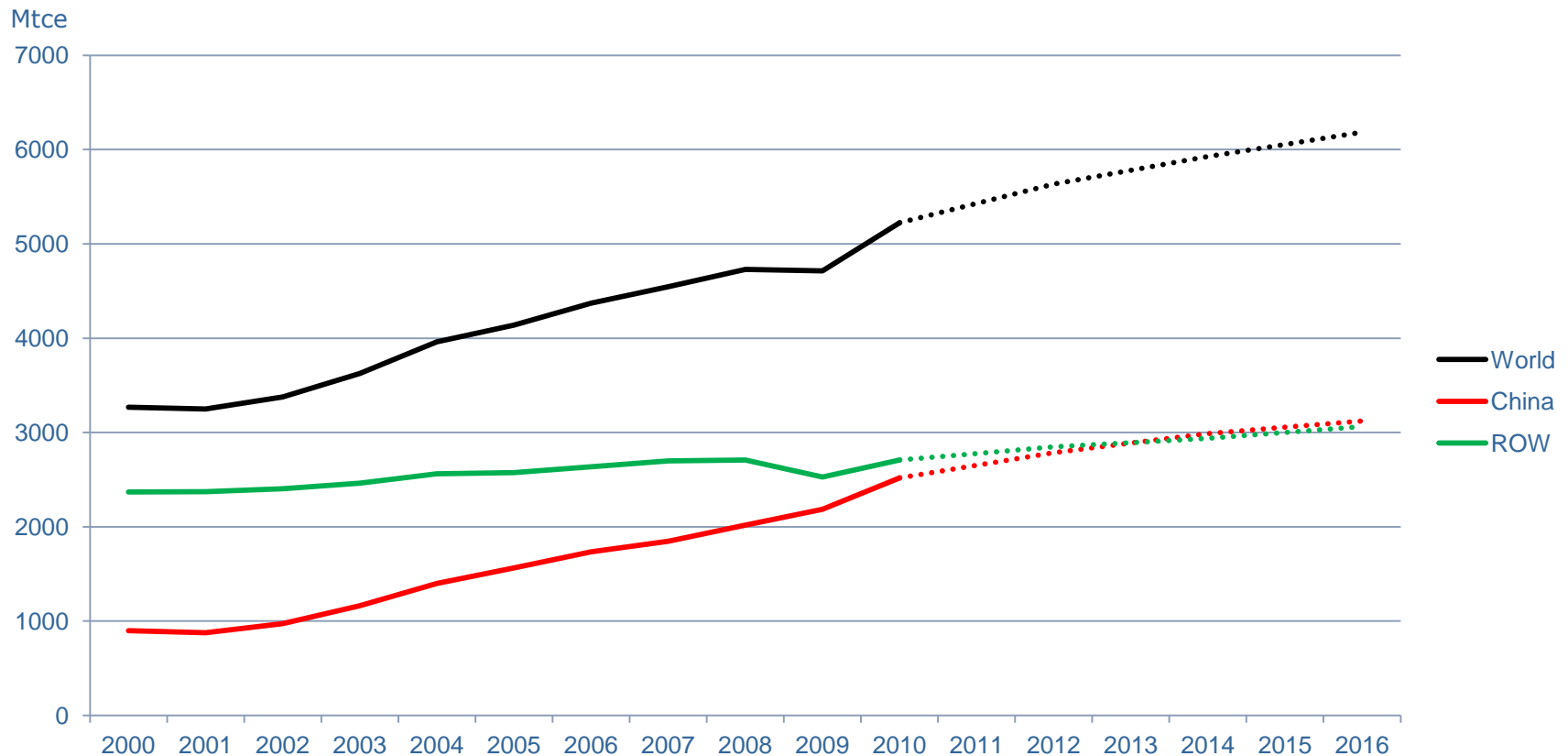
# Coal was king over the last decade

Growth in global energy demand, 2000-2010



Source: IEA World Energy Outlook 2011

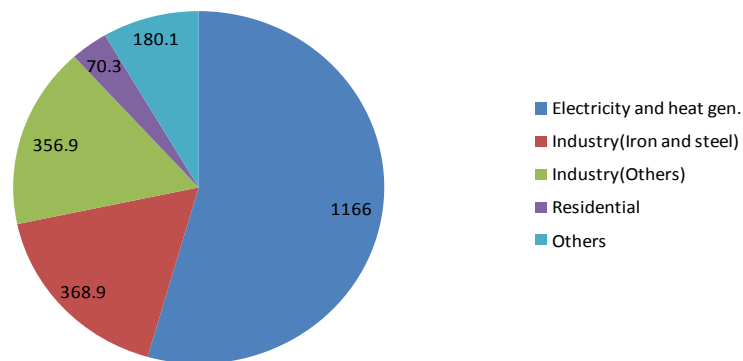
# World coal demand will continue to grow until 2016



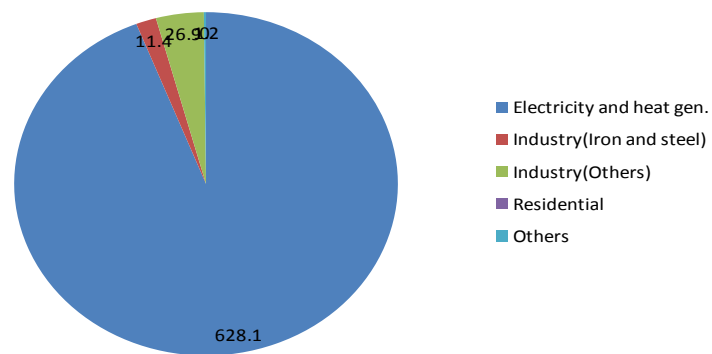
- Coal demand is expected to grow at around 600 000 tonnes a day to 2016

# Power dominates coal use, especially in OECD

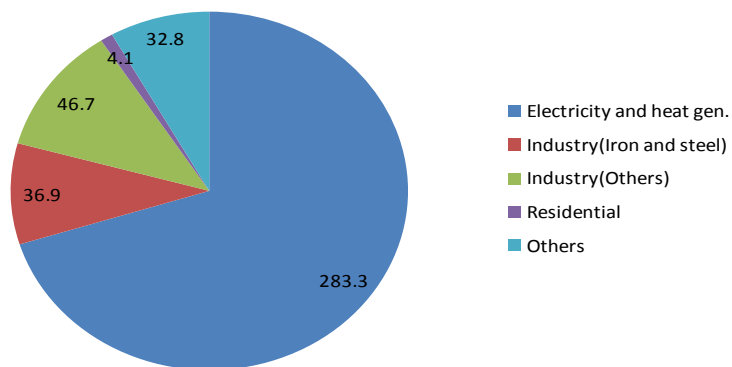
PEOPLE'S REPUBLIC OF CHINA



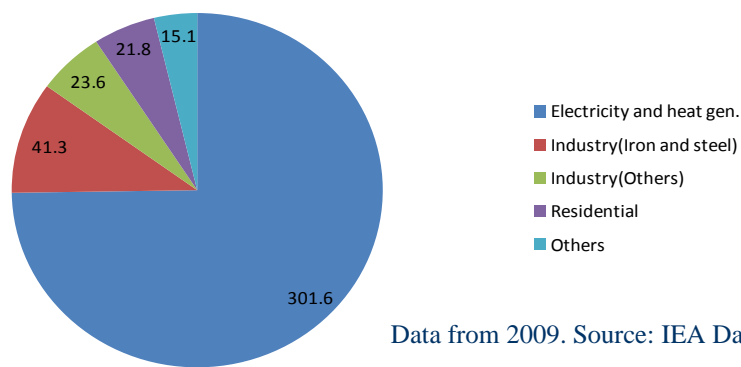
UNITED STATES



INDIA



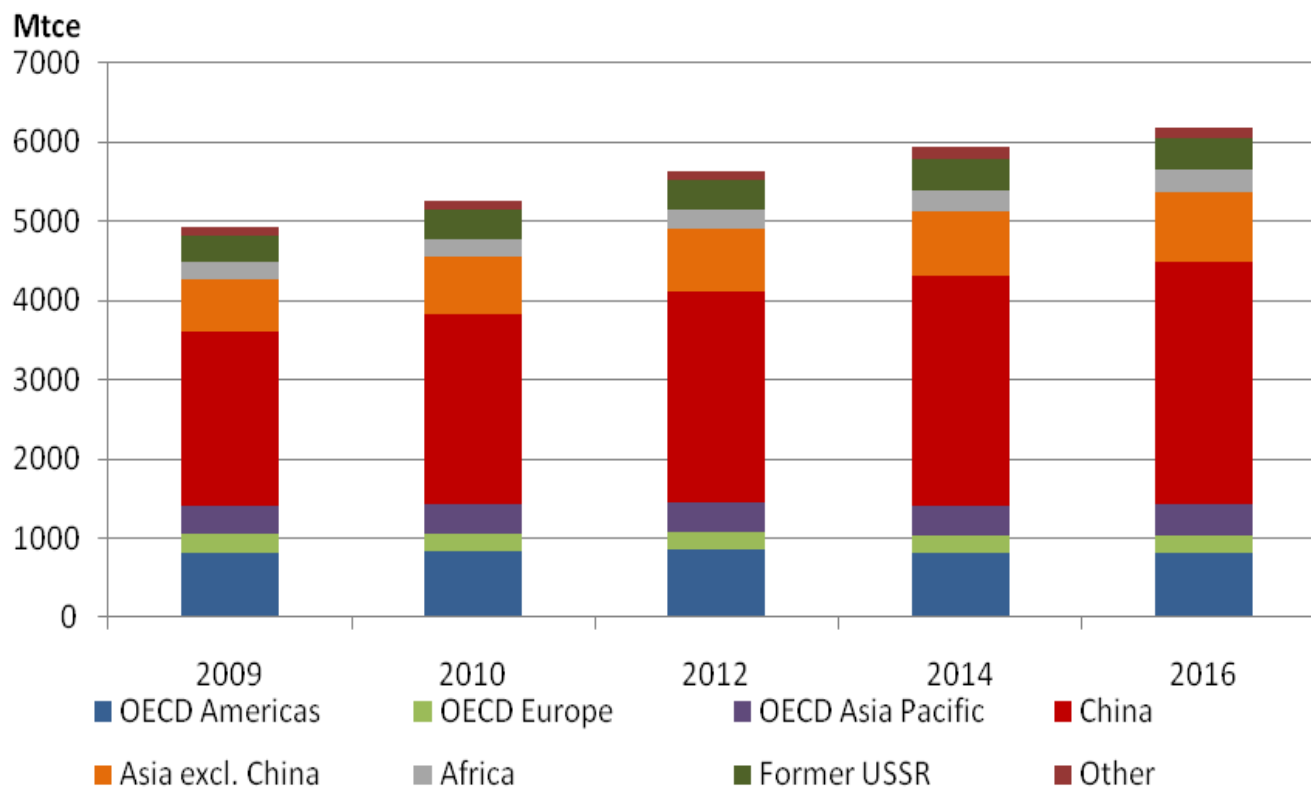
OECD EUROPE



Data from 2009. Source: IEA Database

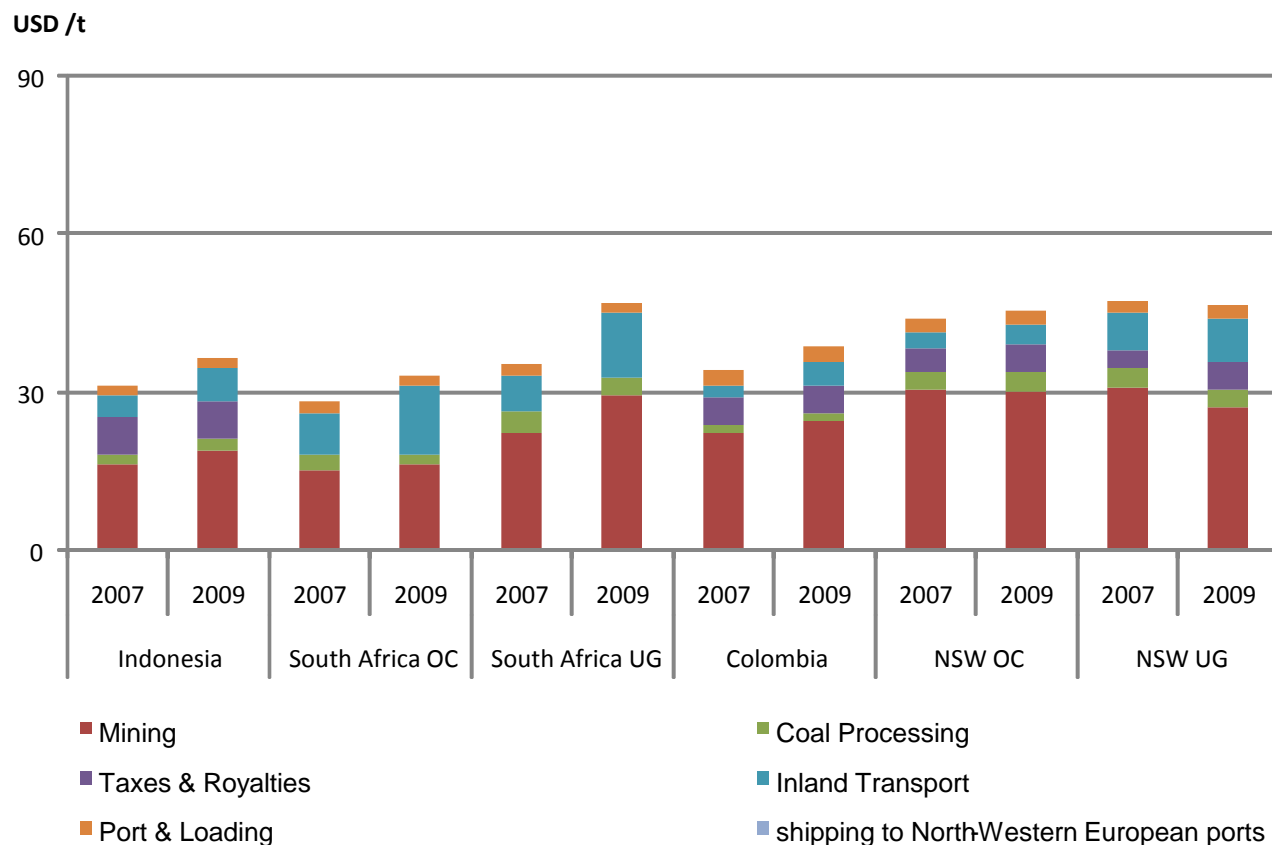
Industry is the second largest use, with steel as the main consumer.

# Increase in coal supply concentrates in China



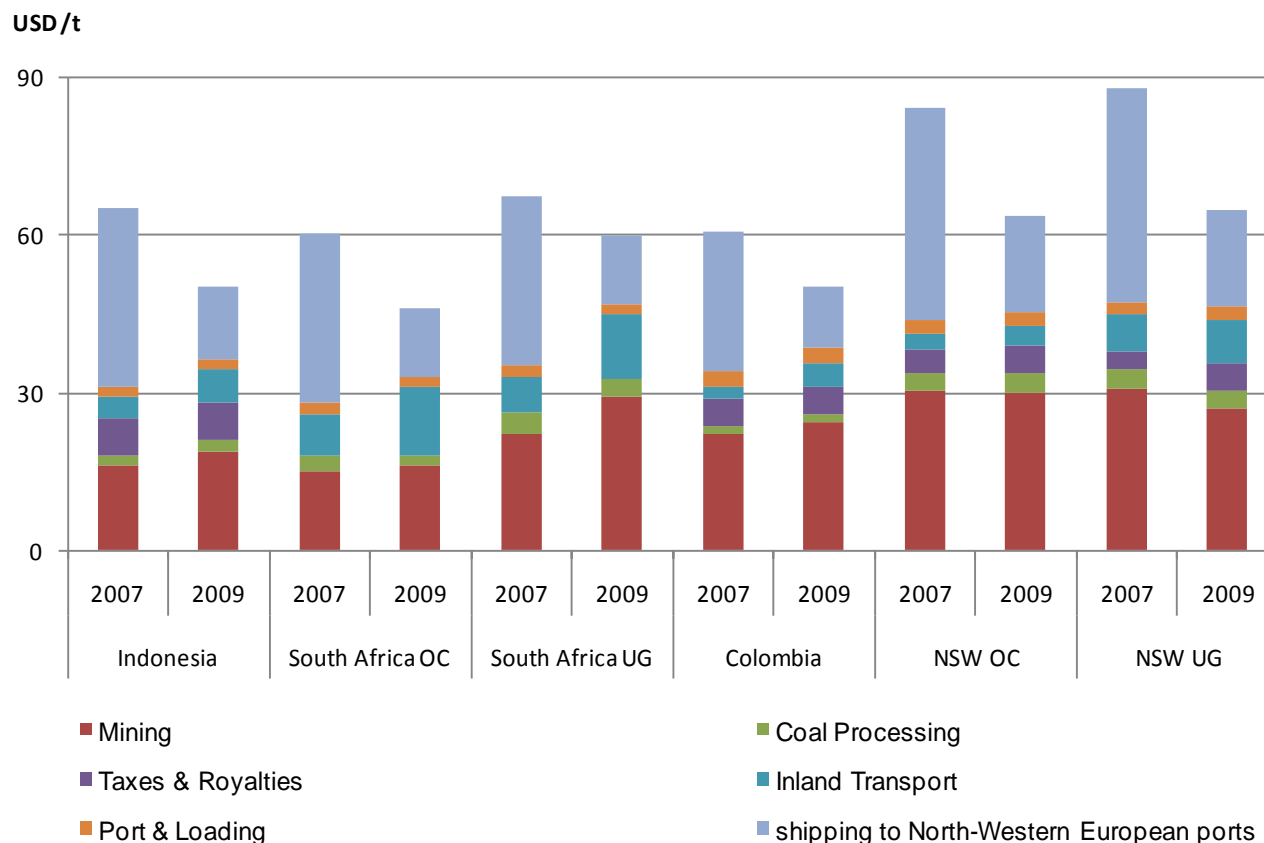
Note that the graph only refers to the high Chinese production (HPS) scenario.

# Mining costs increasing moderately



Source: IEA Clean Coal Centre analysis based on data from Marston Associates, McCloskey, IEA Analysis.

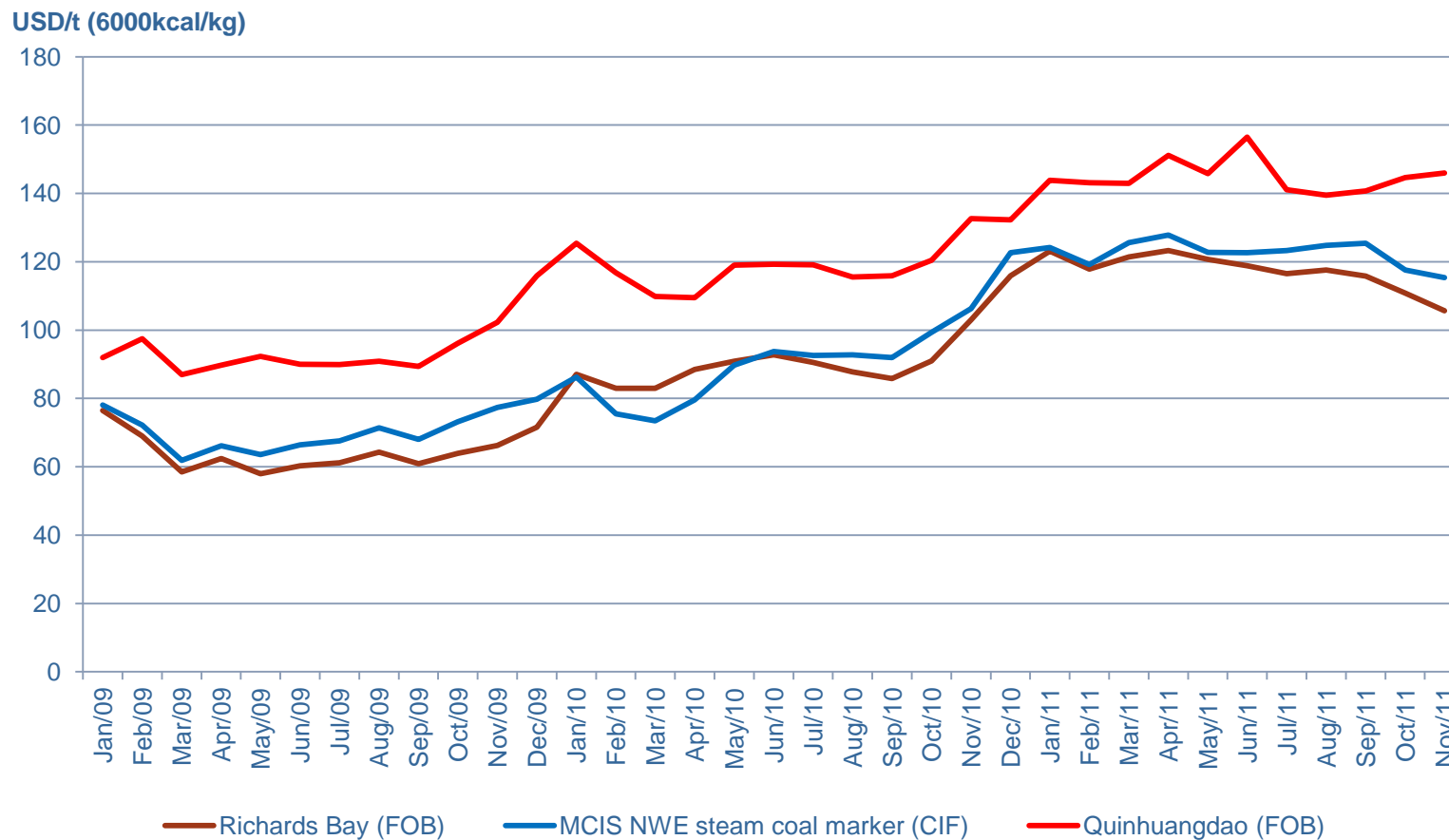
# Costs at destination declined due to lower freights



Source: IEA Clean Coal Centre analysis based on data from Marston Associates, McCloskey, IEA Analysis.

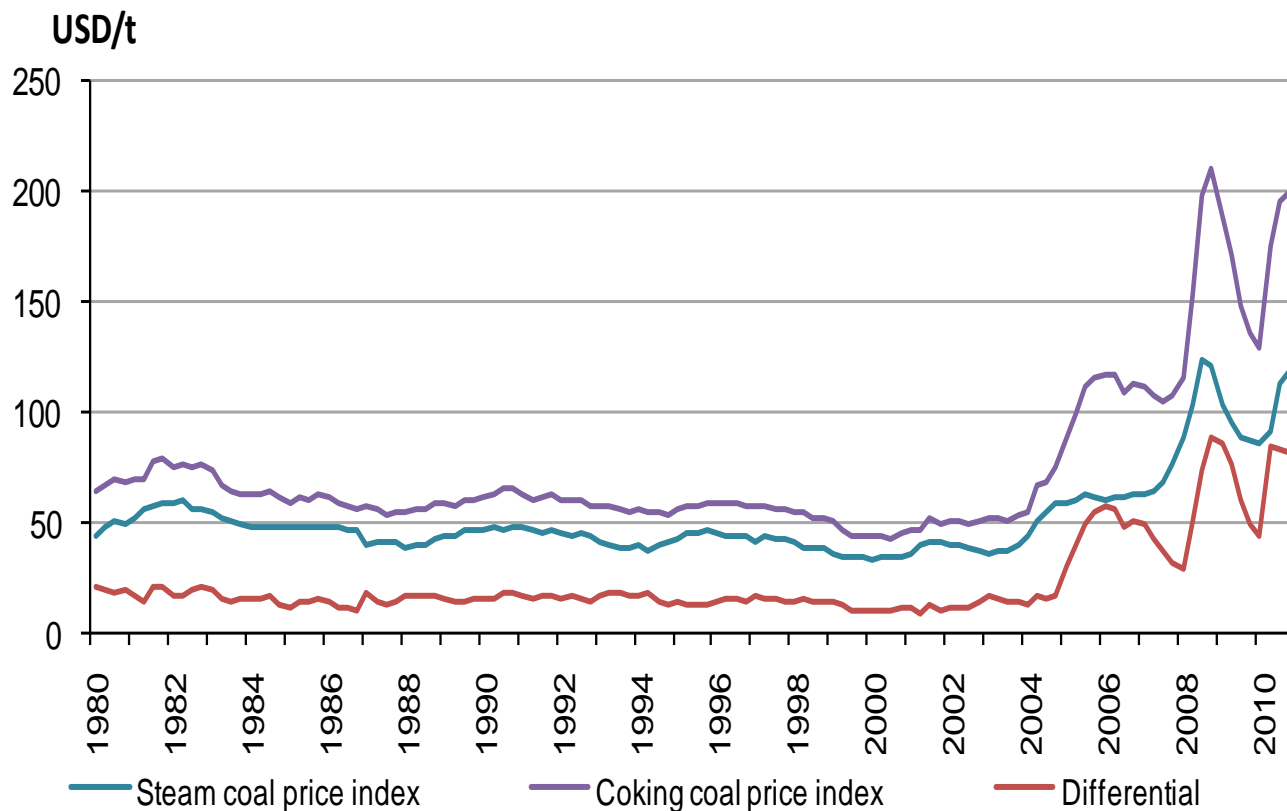


# Prices on the rise since 2009



Source: McCloskey.

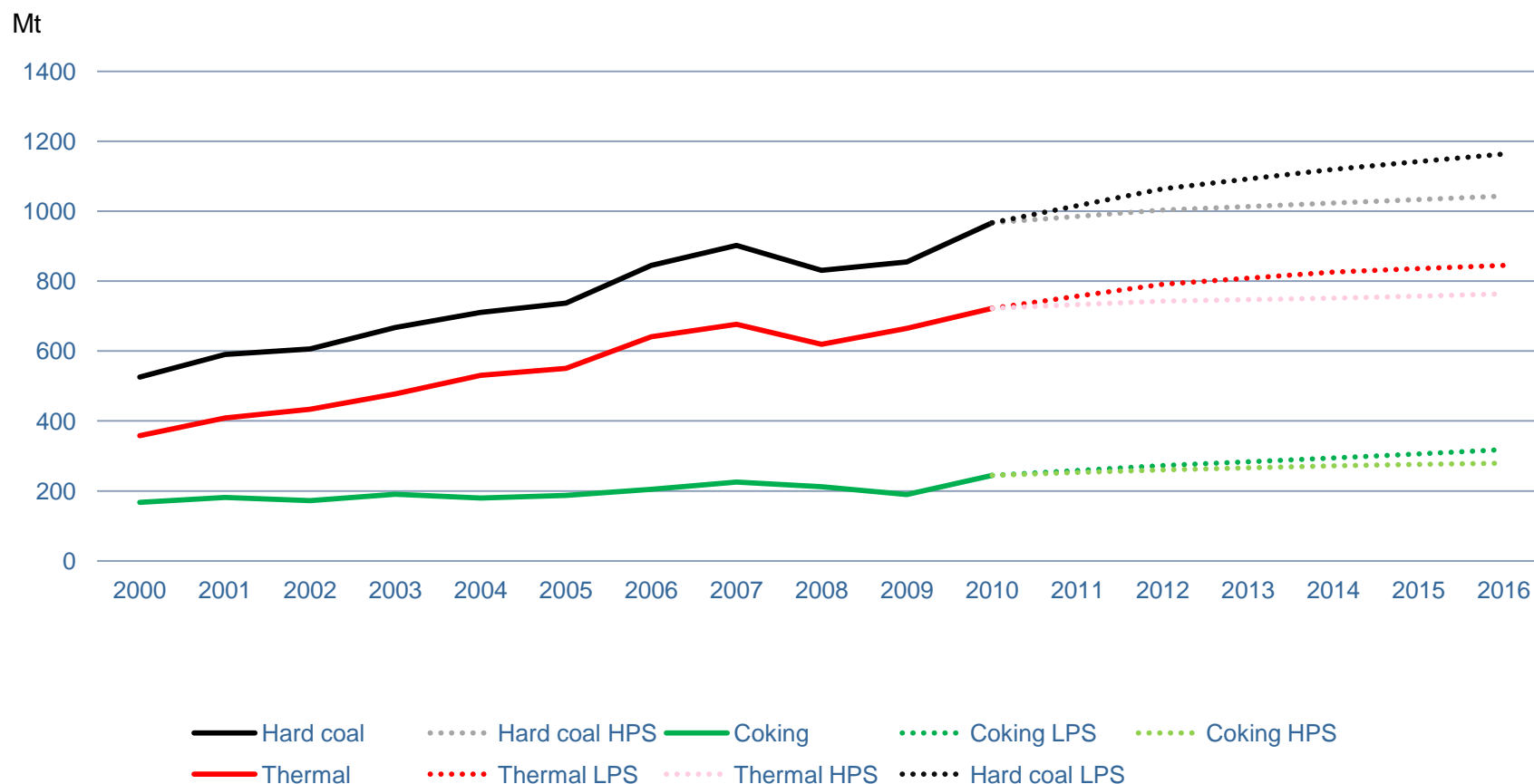
# Are steam and coking coal prices decoupling?



Note: Index derived from imported prices in OECD countries (in nominal USD).

# Coal trade increases, but most production remains to be consumed locally

Seaborne hard coal trade

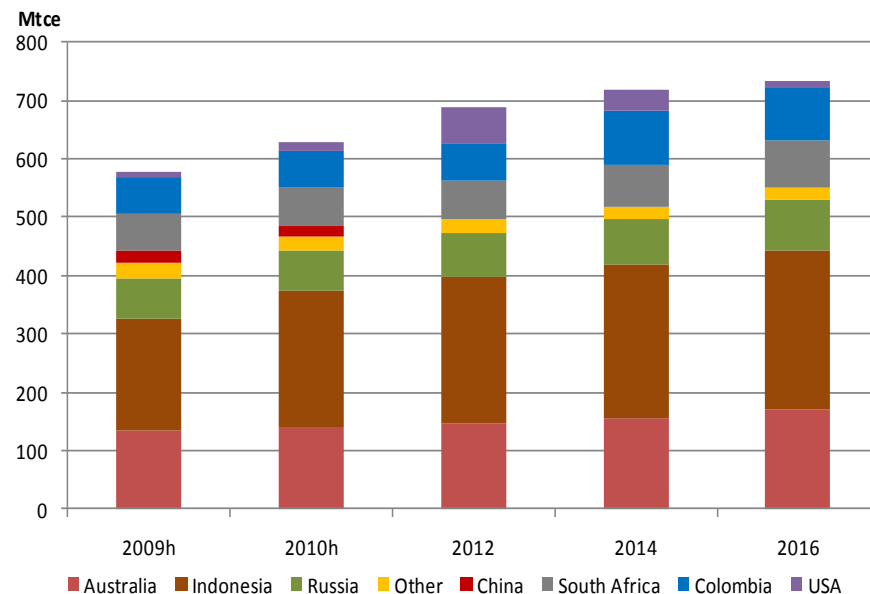
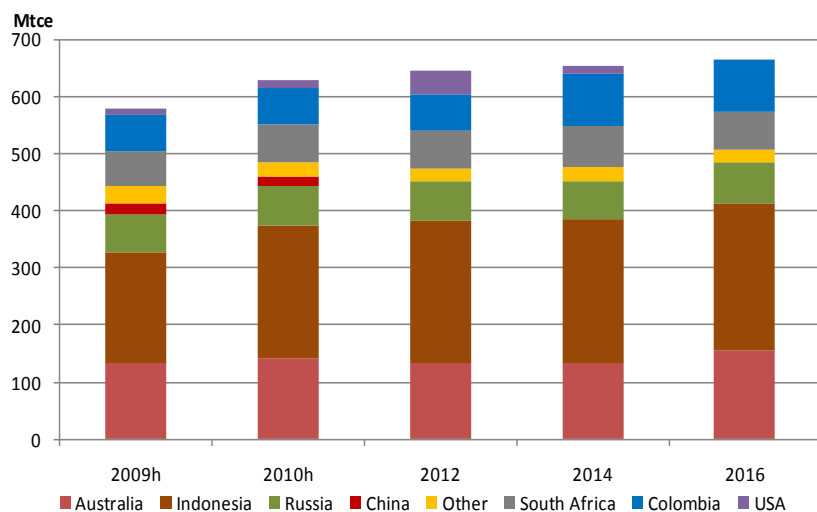


# Importers continue to rely on existing major exporters

High Production Scenario.

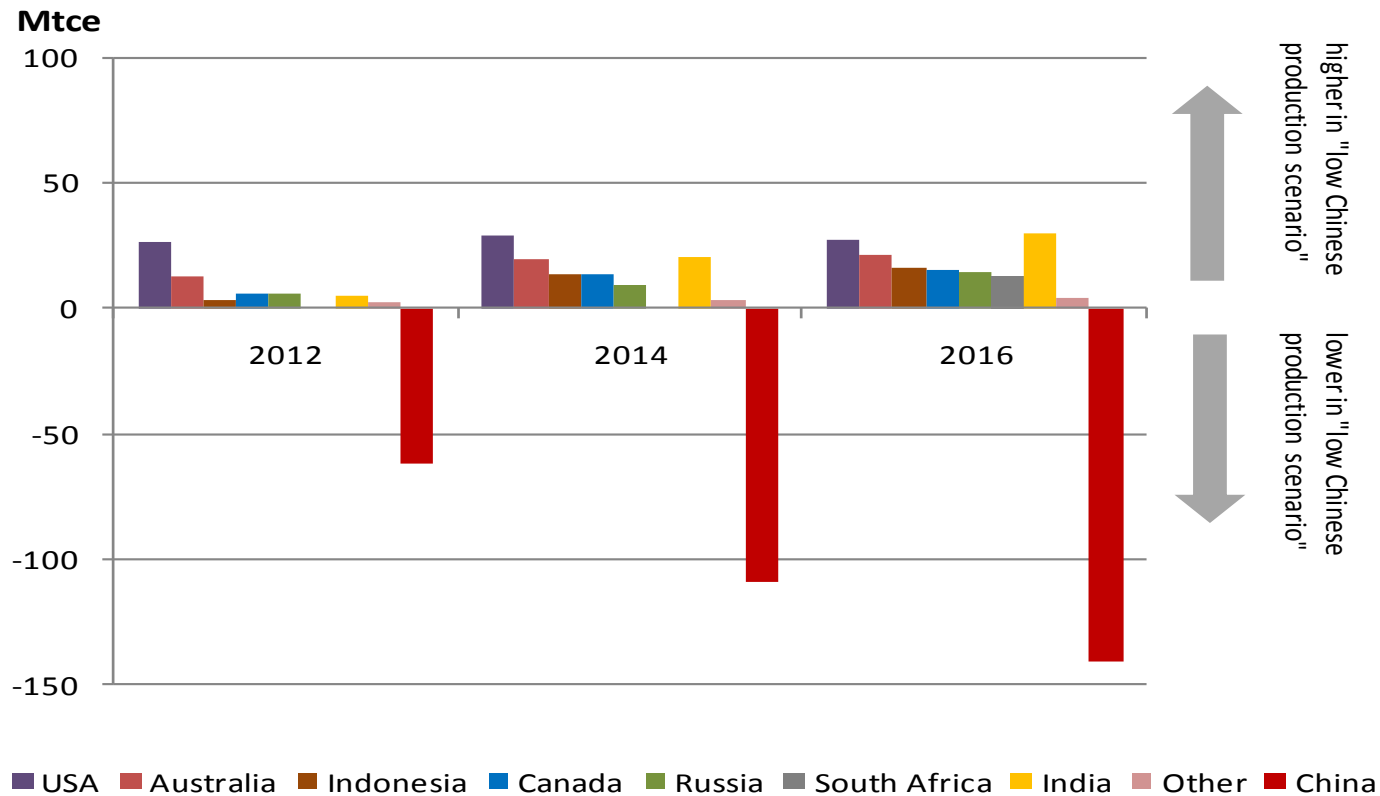
Steam coal exports outlook

Low Production Scenario

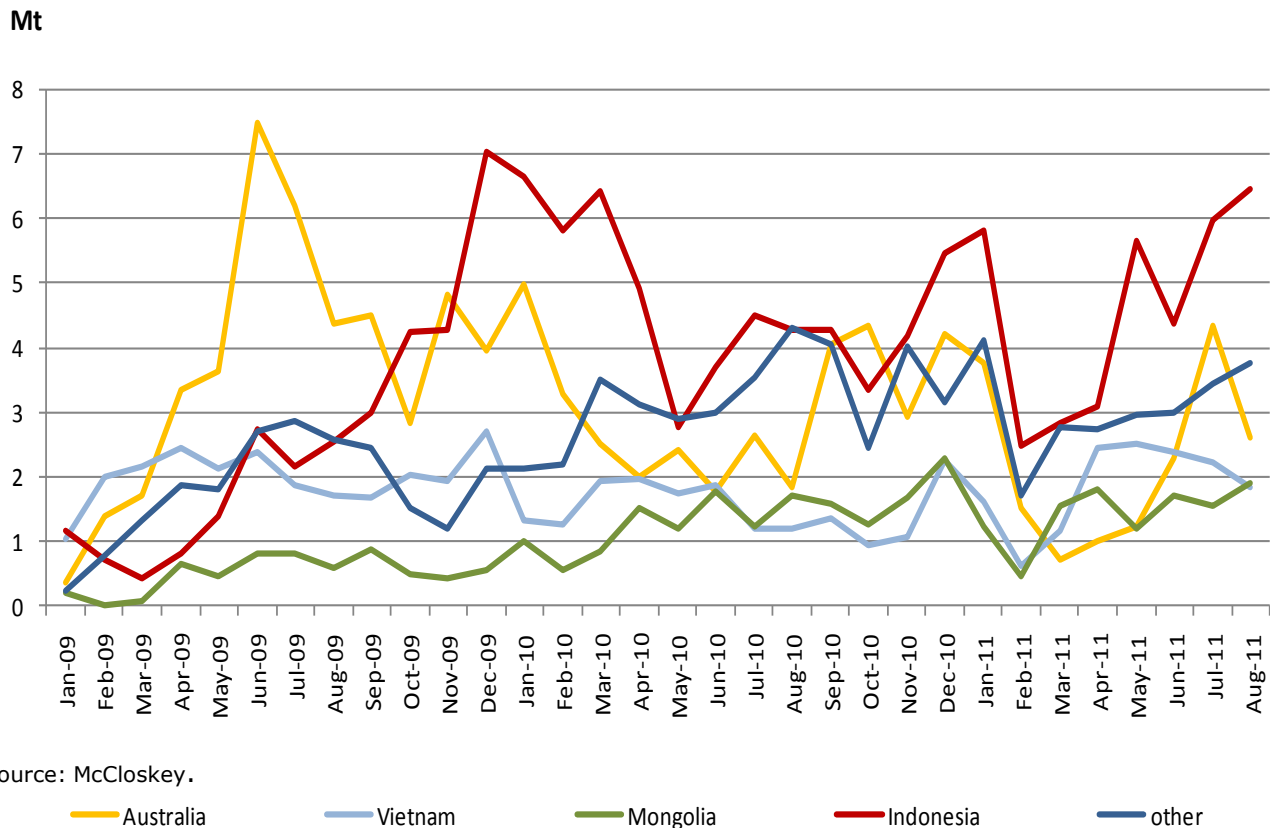


Indonesia and Australia will continue to be the main suppliers of steam coal  
US, as high cost supplier and swing exporter, is most affected by Chinese imports

# Global coal trade impacted by China production assumptions

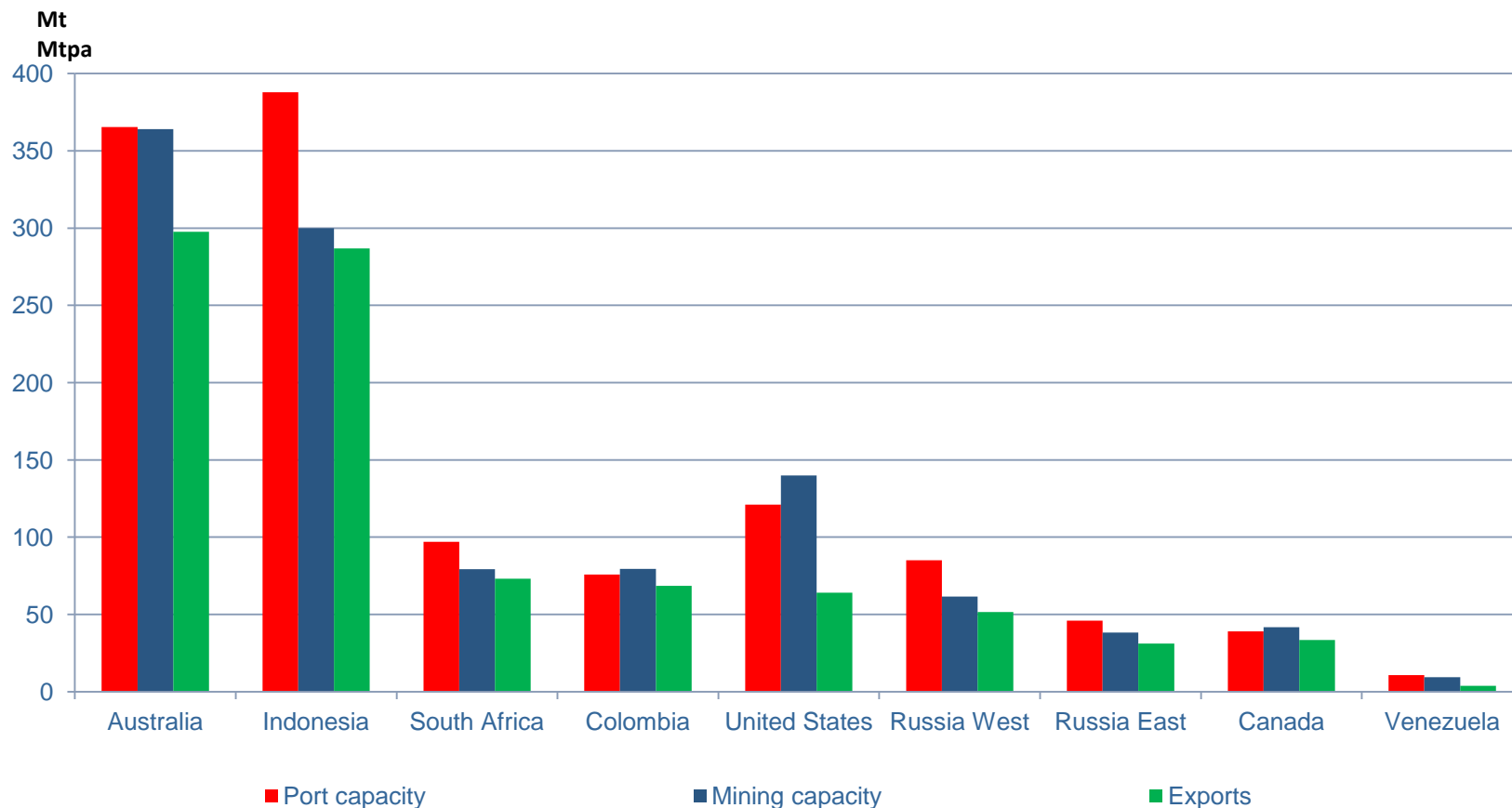


# Uncertainty of imports from major users drives price volatility and investment risk



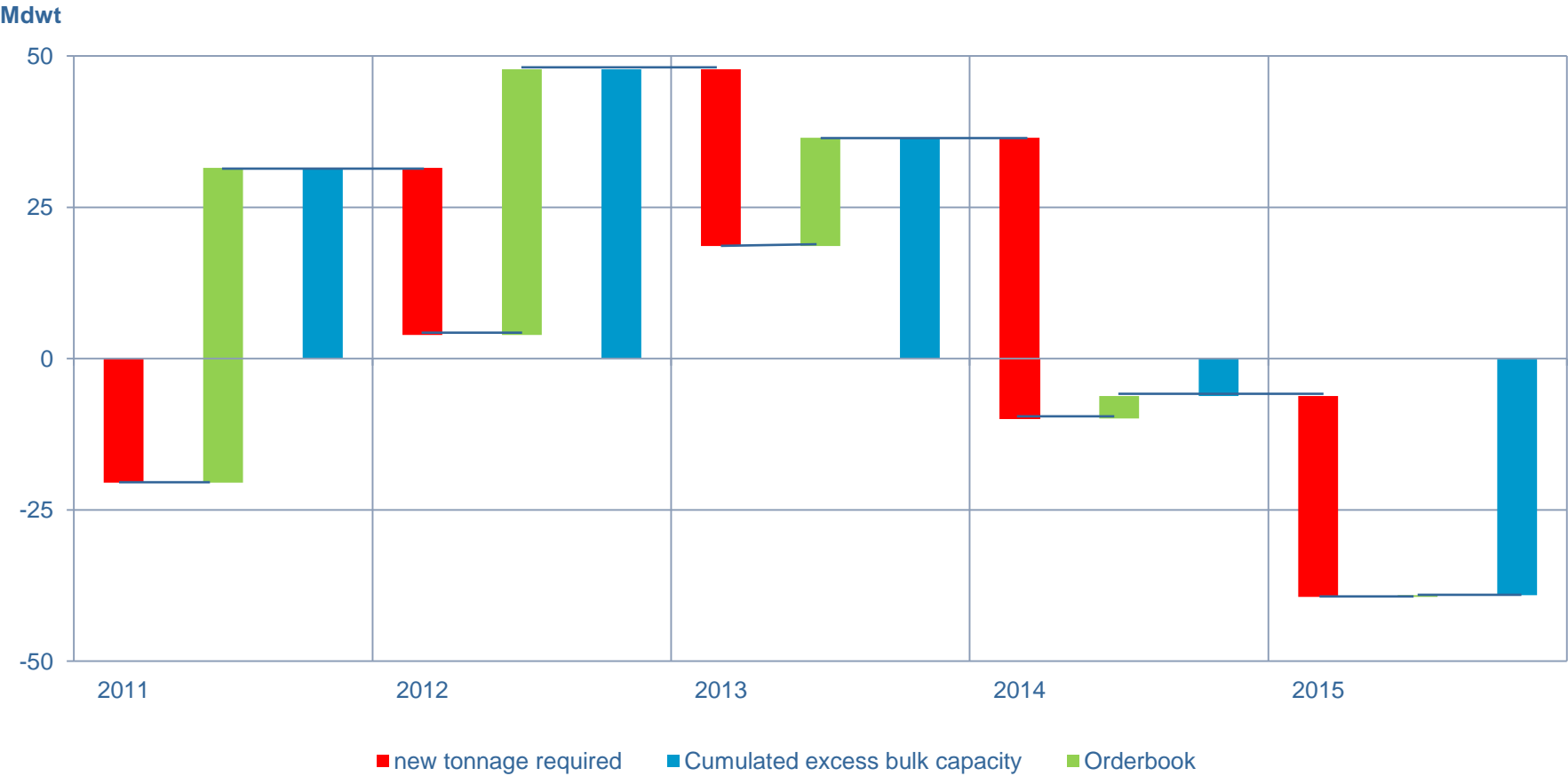
Monthly imports to China from different origins show the high volatility of Chinese purchases

# As can very high utilization of export infrastructure



Among the big exporters, only US and Australia provides market with significant spare capacity

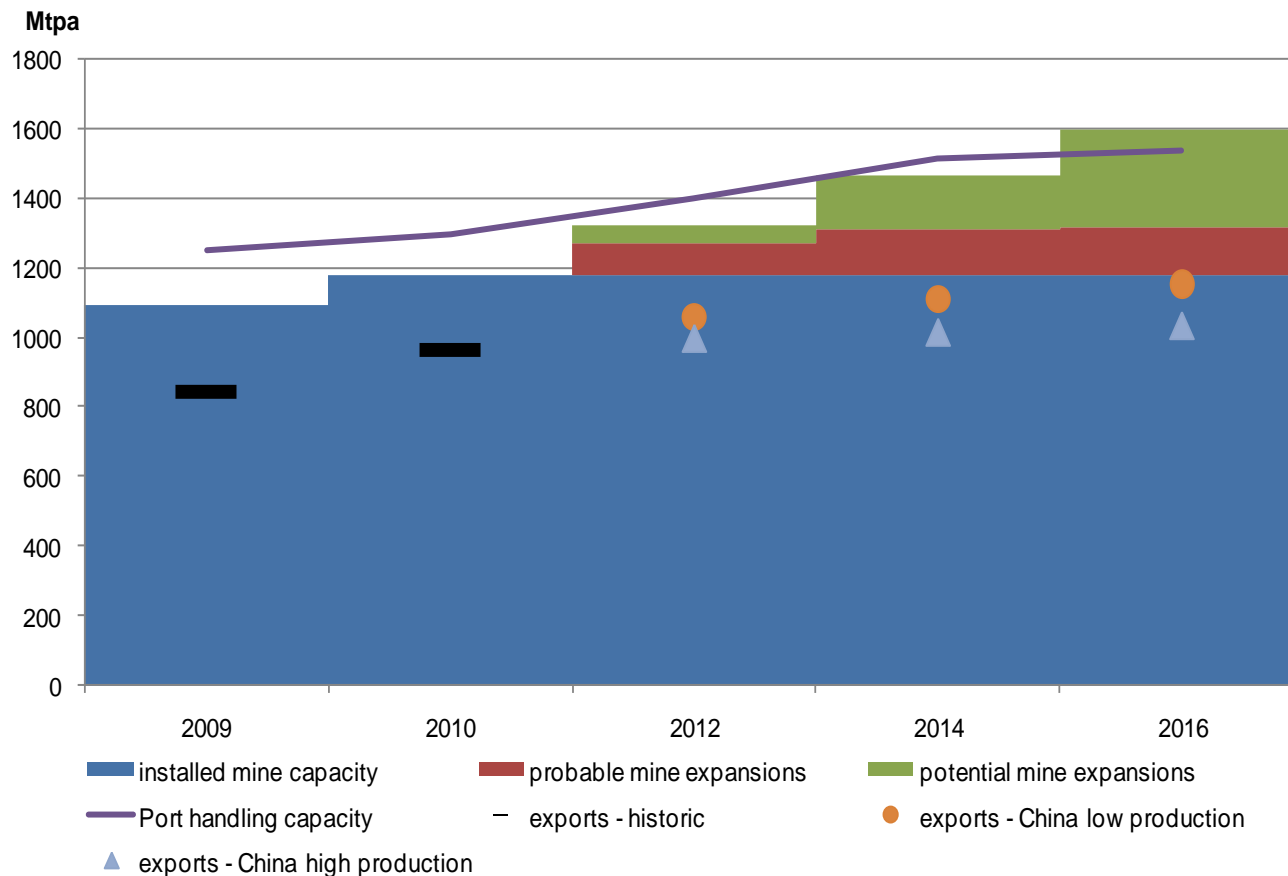
# Plentyful bulk freight capacity continues



Source: Barry Rogliano Salles, DnB NOR; IEA analysis



# Outlook for global export capacity utilisation for seaborne hard coal trade until 2016



# KEY MESSAGES

- Coal demand will make a substantial contribution to the global energy mix to 2016
- Key economic uncertainties will largely shape global coal supply, demand, investment and trade over the period
- Coal demand and trade is projected to grow over the next 5 years, although more slowly than in the last decade
- China will continue to dominate global coal consumption and trade outcomes, with Indian influence growing
- Investments in supply capacity and handling infrastructure should be sufficient to meet incremental demand growth over the outlook period
- However, delays and cancelation of projects as well as weather-related events may tighten the market occasionally

**Thanks for your attention**

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