Outlook for commodity markets

Neal Brewster Rio Tinto Economics

MF Global Seminar

15 October 2009



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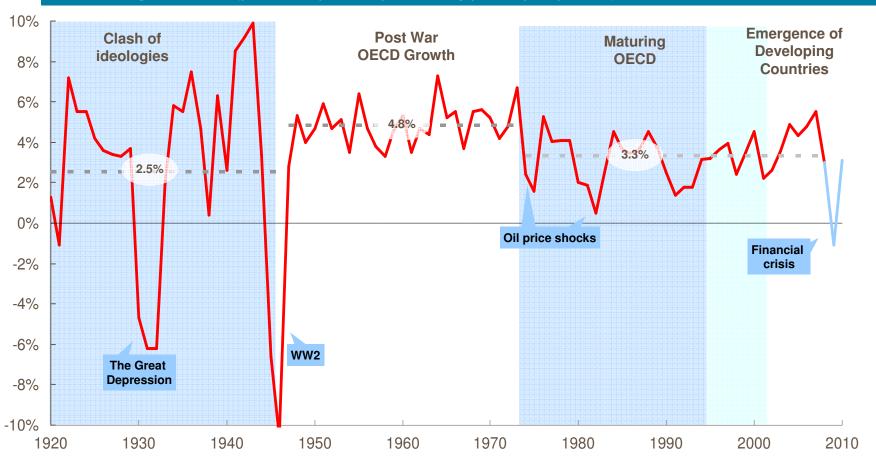
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Global financial crisis has been the biggest shock to the world economy since the Second World War

Growth in global GDP (percent a year on purchasing power parity basis)



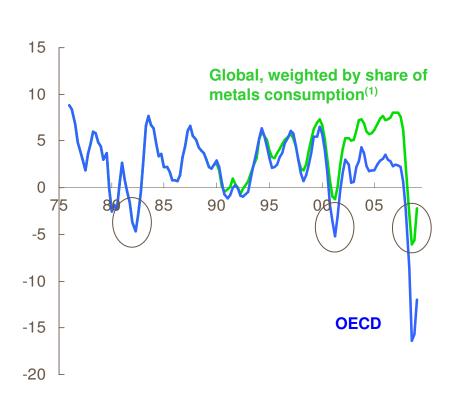
Note: Data prior to 1950 excludes Africa, Asia and Former Soviet Union Source: IMF, Rio Tinto

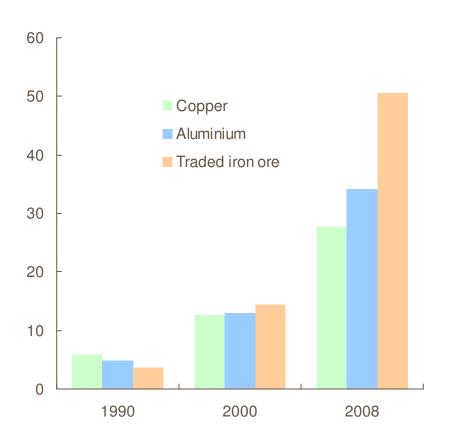
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In a "metals weighted" world the downturn is comparable to the early 1980's and "dot-com" downturns

Growth in industrial production (percent a year)

China's share of world consumption (percent)





Source: IMF, WBMS, CRU, Brook Hunt, Rio Tinto

We are now seeing a cyclical upturn in the developed world but underlying recovery may not be strong

Purchasing manager indicators suggest recovery ...

60 55 50 45 40 35 -US -Japan 30 Eurozone 25 20 Jan-08 Apr-08 Jul-08 Oct-08 Jan-09 Apr-09 Jul-09

.. but a number of 'headwinds'

- Release of 'pent up' demand, government stimulus and end to destocking is driving current 'normalisation' in demand
- Excess capacity is still holding back investment and producers are not restocking
- Structural fiscal deficits will eventually need rebalancing
- Western consumers unlikely to go back to previous levels of borrowing

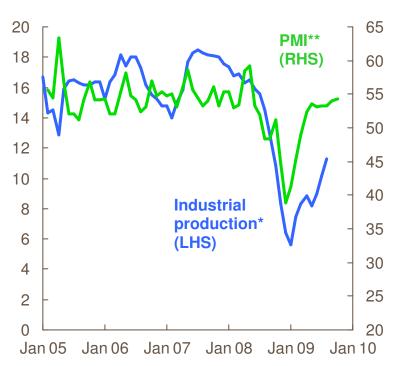
Source: ISM Factory (US), Nomura JM (Japan), Markit (Eurozone)

This may not matter for commodities if the strong Chinese recovery continues; but a longer term shift in the balance of its growth is required

Rapid pick up in Chinese economic activity

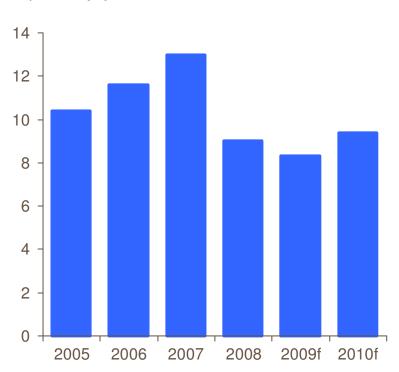
Chinese industrial production and Purchasing Managers Index

percent yoy, index



Chinese GDP growth

percent yoy



- * 3 month moving average
- ** NBS series. Forward 1 month

Source: Reuters Ecowin, Consensus Economics

Inland Chinese provinces have been the focus of Chinese infrastructure spending

Acceleration in investment growth in China

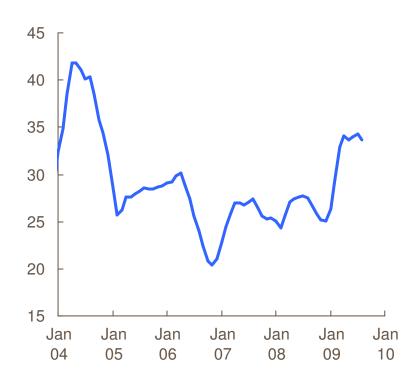
Increase in fixed asset investment Jan-Aug 2009

Per cent yoy (bars denote relative growth)

Russia Kazakhstan Heilongjiang Mongolia Kyrgyzstan Neimongol Tajikistan Xinjiang Liaoning North A fghanistan Korea Pakistan: Shanxi Shandone Korea Qinghai Shaanxi Bhutan India Guizhou Bangladesh Guangxi Guangdong Myanmar Vietnam Scale 500 km Thailand

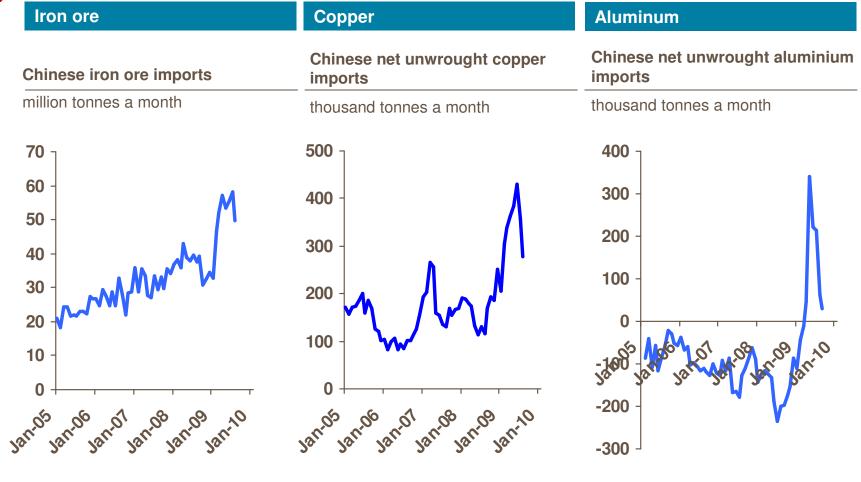
Urban fixed asset investment

percent yoy, 3 month moving average



Source: Chinese National Bureau of Statistics

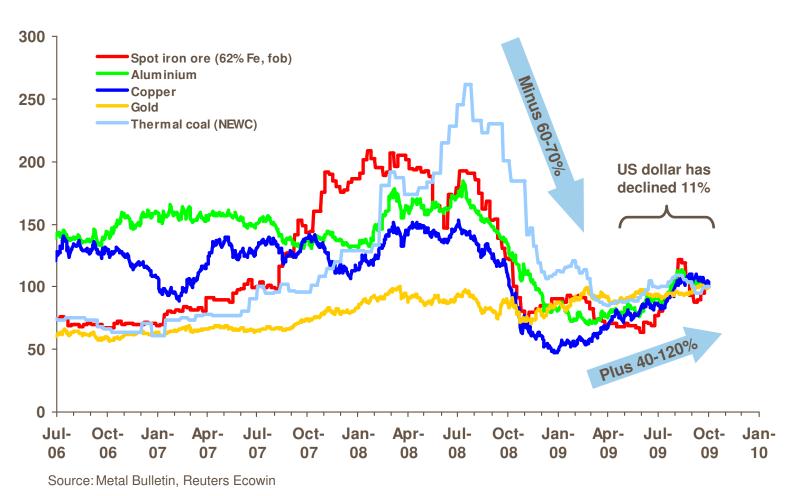
Surge in Chinese imports during 2009 have been the driving force behind commodity markets offsetting fall in demand in other regions



Source: Chinese trade statistics

After a record decline in 2008H2 commodity prices have staged a strong recovery

Daily spot price index (2 October 2009 = 100)

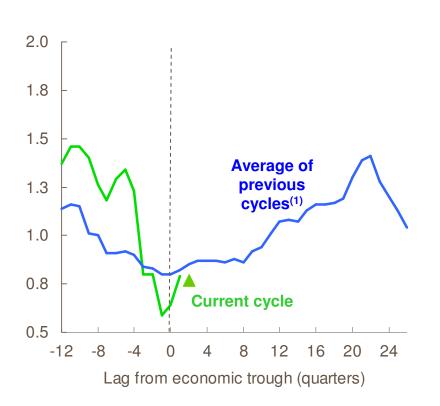


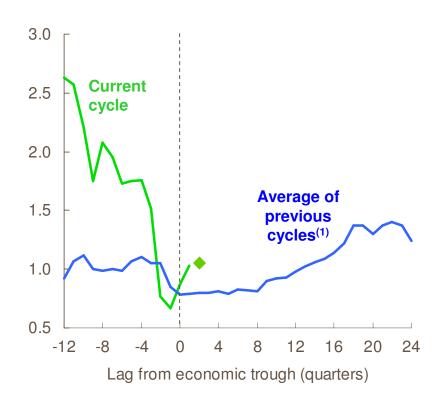
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Current metals price cycle has been much more severe than in previous periods but prices have risen more quickly off lows

Aluminium price as ratio of 5 year trailing average⁽²⁾

Copper price as ratio of 5 year trailing average⁽²⁾





- (1) Average of cycles centred around 1978, 1982, 1992 and 2001
- (2) Real terms

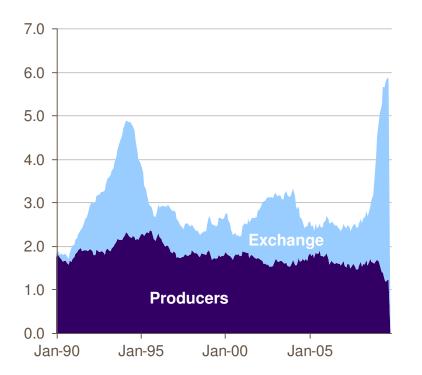
Source: LME, Rio Tinto

<u>Aluminium</u>: Prices in Q1 reflected excessive risk but large stock overhangs have developed

World aluminium production and price-cost relationship

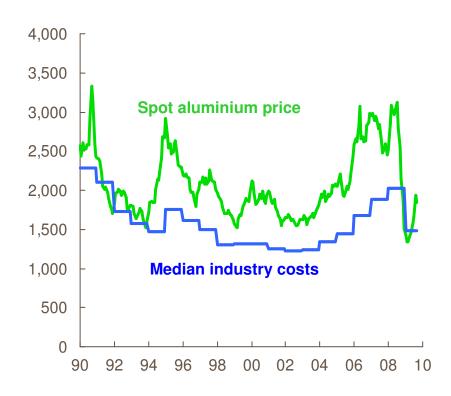
Western aluminium stocks

million tonnes



Aluminium prices and costs

\$ per tonne in real 2009 terms



Source: IAI, CRU, LME

Consumption is now starting to recover but remains well below previous levels outside China

World aluminium shipments

Non-China monthly, million tonnes

Jan

08

Jan

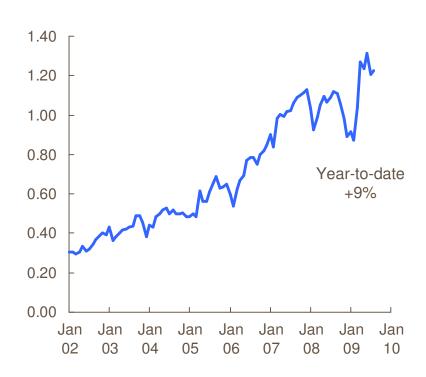
09

Jan

10

China

monthly, million tonnes



Source Rio Tinto estimates

Jan

03

Jan

04

Jan

05

Jan

06

Jan

07

Jan

02

Large smelter capacity overhangs remain both inside and outside China

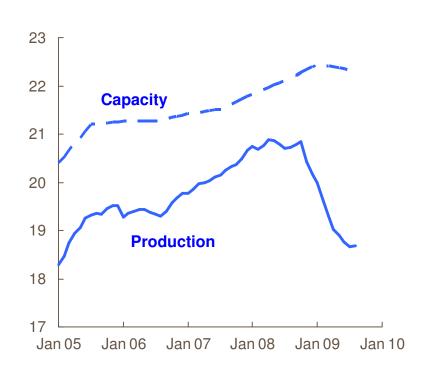
World aluminium production and capacity

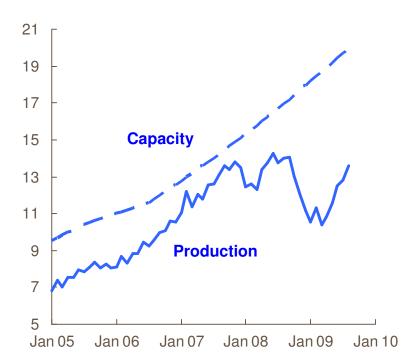
Western world

monthly, annualised million tonnes

China

monthly, annualised million tonnes





Source: IAI, WBMS, Rio Tinto estimates

<u>Copper</u>: Constrained supply and record Chinese imports pushed market back into deficit in H1 but destocking may be a short run negative

Low copper stocks and constrained supply growth

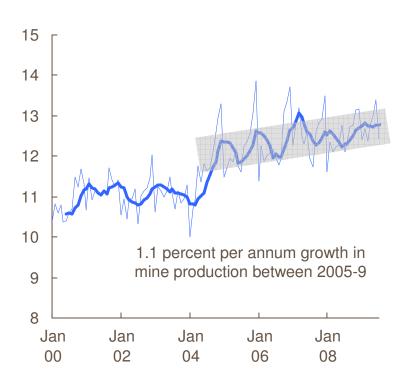
Western copper stocks

thousand tonnes

1,800 1,600 1,400 1,200 1,000 800 600 Exchange 400 200 **Producers and consumers** 0 Jan Jan Jan Jan 02 04 06 08

Western world copper mine production

monthly, annualised million tonnes



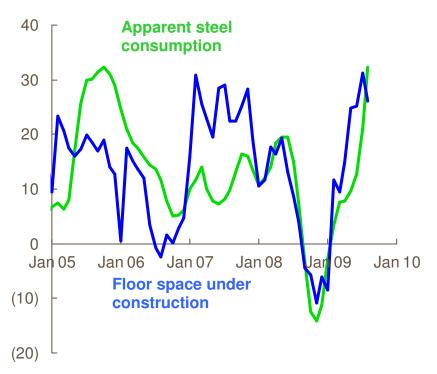
Source: WBMS, LME, NYMEX, WBMS, Chinese trade statistics

<u>Iron ore</u>: Current spot prices are supported by call on high cost marginal producers required to meet Chinese demand

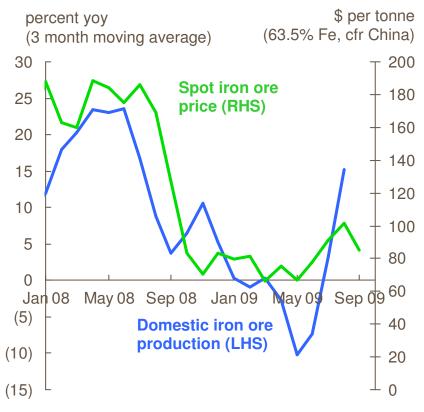
Chinese steel production is responding to recovery in construction activity and infrastructure spending and driving spot iron ore prices

Residential construction and apparent steel consumption in China

percent yoy (3 month moving average)



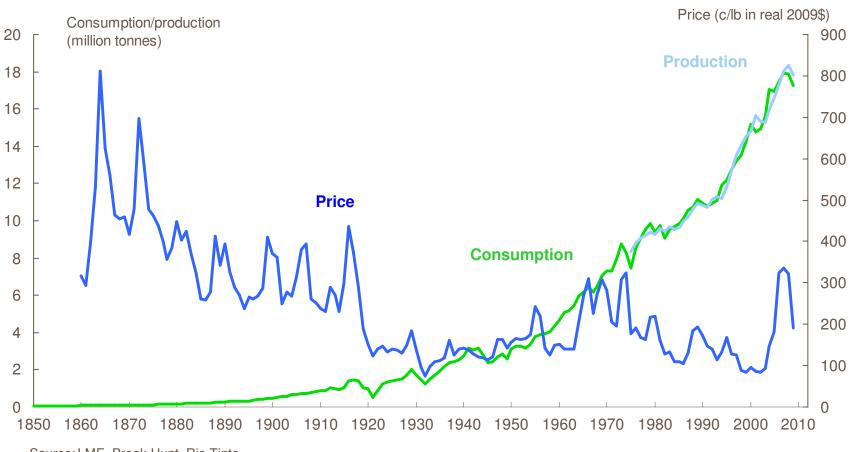
Iron ore spot price and domestic Chinese mine production



Source: World Steel Association, Chinese trade statistics, Reuters Ecowin

Long run price levels are the outcome of a continuous tussle between demand and supply

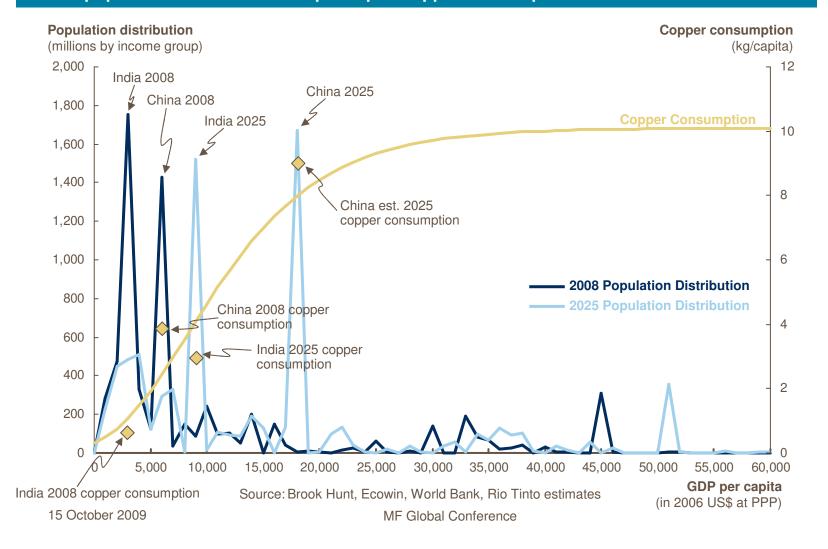
Refined copper consumption and real copper price



Source: LME, Brook Hunt, Rio Tinto

Future metals consumption trends will be driven by growth in population and wealth in developing nations, particularly China and India

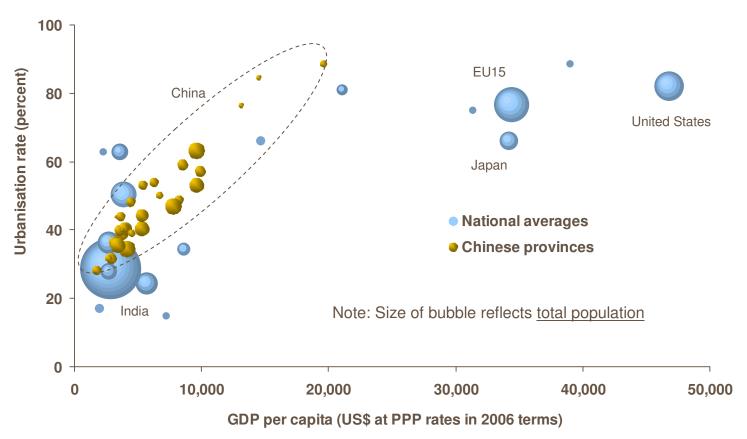
Global population distribution and per capita copper consumption



Industrialisation and urbanisation within China have some way to run

Urbanisation rates across Asia, the United States and European Union in 2008

Urbanisation rates, income and population



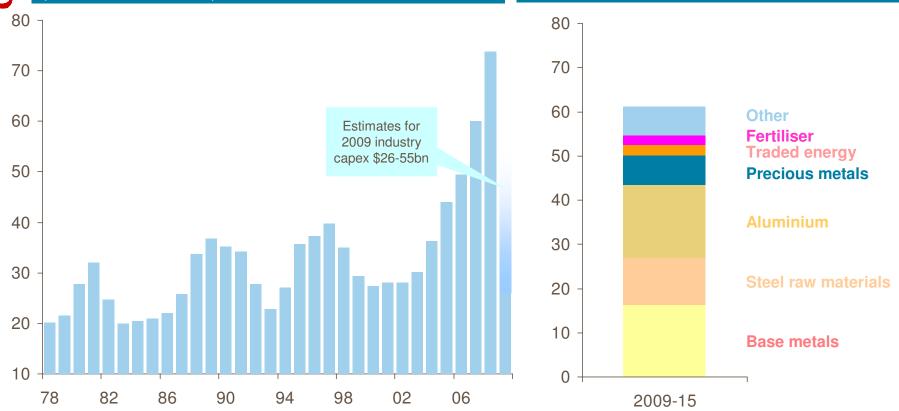
Source: Global Insight, CIA Factbook 15 October 2009

RioTin

Metals consumption could double in next 15-20 years and implies sustained pressure on capital and people ...



Future sustaining and new capital spending requirement (\$billion in 2009 terms)



Note: Base metals consists of cobalt, copper, lead, manganese, molybdenum, nickel, tin and zinc

Steel making consists of seaborne coking coal and seaborne iron ore

Aluminium consists of alumina refining and aluminium smelting

Precious metals consists of gold, silver, PGMs and diamonds

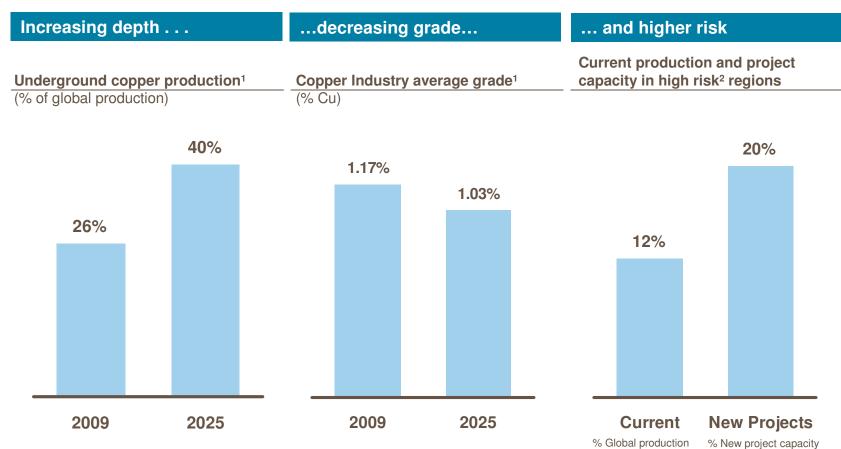
Energy consists of seaborne thermal coal and uranium

Based on current unit capital costs and Rio Tinto demand projections and assuming sustaining capital at 4% of revenue.

Sources: MICA (CRU), Rio Tinto estimates

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... and resources. The location and grade of Copper ore will create challenges for the industry.



Notes: 1 Existing mines and funded projects

2 Rio Tinto classification

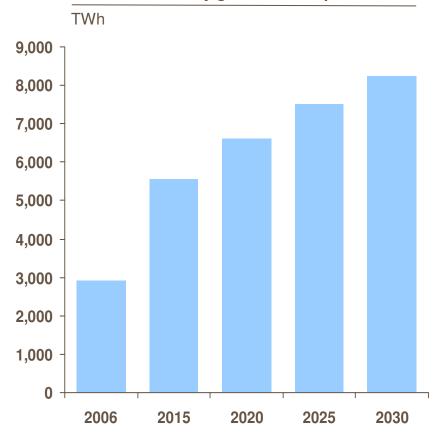
Source: Brook Hunt Q2 2009

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... including energy. Positive long run aluminium outlook underpinned by rising demand and energy constraints

Long run upwards pressure on Chinese costs will support long run aluminium prices

Chinese electricity generation requirements



- Chinese smelters will face increasing competition for access to power
- Renminbi appreciation is expected to resume once export market conditions stabilise
- Carbon pricing will lead to upwards industry cost and price pressure and benefit low carbon sources of production

Source: IEA World Energy Outlook (2008)

Current market conditions and outlook

- Spot metals prices are 40-120% above Q1 cyclical lows but remain well under previous peaks
- Stimulus spending, loans growth and stocking activities in China provided initial basis for recovery
- Could see some 'pay-back' for this in coming months but may be offset by normalisation in developed world consumption levels
- Strong longer run fundamentals remain intact