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John Bevan Chief Executive Officer

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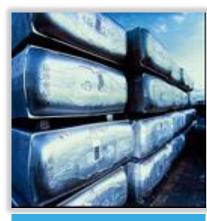
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## 3 global businesses







Global bauxite market 225 million tonnes



Global alumina market 90 million tonnes

Global smelter market is 45m tonnes

- Each business has different economics and varies regionally
- Global industry is less vertically integrated than before China's growth
- Traded bauxite and alumina has increased rapidly since China's industry development
- China is 42% of global aluminium demand, so impacts all 3 businesses



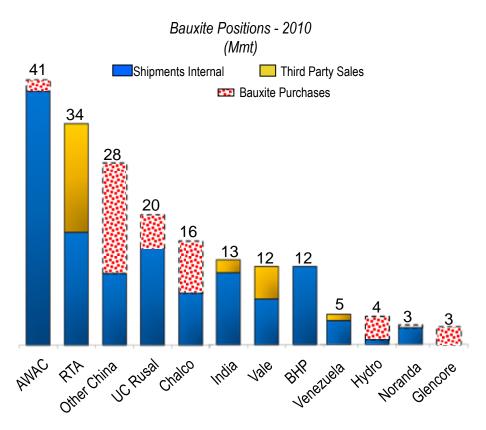
# Bauxite – low value but expensive to access and deliver



- New mines are not expensive, logistics are
  - Approvals
  - Increasing national interest requires value adding in country
  - Capital costs for transport/ infrastructure rising rapidly
  - Higher rehabilitation standards
- China's refinery growth has encouraged traded bauxite market
- 55% of bauxite is now seaborne trade globally



### Not all producers are vertically integrated

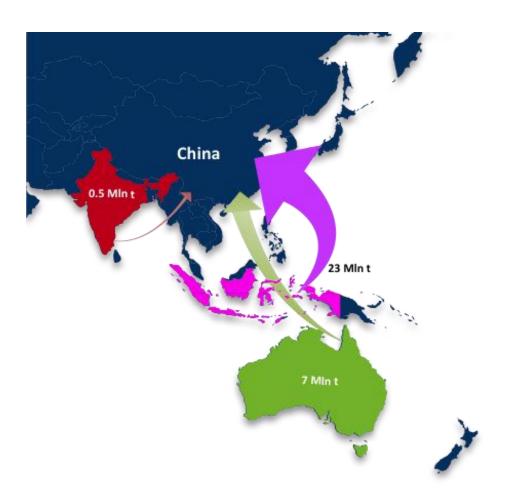


Source: Alcoa estimates, CRU

- China producers are the least self sufficient in bauxite
- Existing mines have falling grades, which lead to higher processing costs
- Some majors hold long term leases that are underdeveloped
- New "easy access", high quality bauxite is now rare



### China's bauxite imports have rising costs



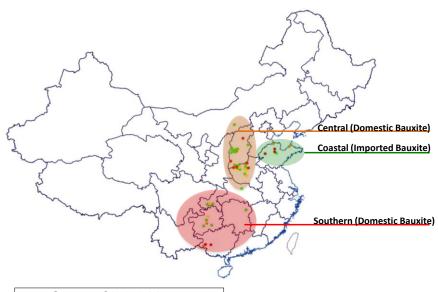
- China imports 25% of its bauxite needs – mainly from Indonesia
  - Indonesia's mining laws may stop export trade in 2014
  - Existing Indonesian bauxite quality dropping/costs increasing
  - Demand for new sources from Australia rising
  - India focused on internal supply
- China has bauxite but insufficient for demand
  - Falling grades affecting processing
  - Internal infrastructure limits long distance transportation

Source: Clark & Marron



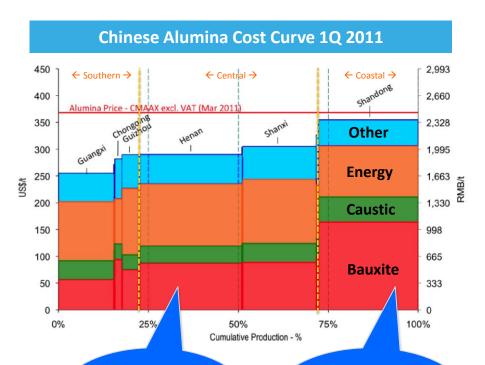
# Bauxite makes China a high cost alumina producer

#### Chinese Alumina – Domestic Bauxite Reserves



Source: Clark & Marron

- Largely self sufficient in alumina
- Imported and domestic bauxite costs are rising
- Energy prices in Shandong are up
- Merchant refineries are marginal producers
  - Drive pricing in China



Future bauxite imports in central region due to falling grades of local bauxite

Merchant refiners using imported bauxite are the current marginal producers in China



# Strong alumina demand – can supply respond?



- Demand strong as recovery grows
  - Supply outside China is tight
- Limited planned additional capacity outside China
  - Current utilisation about 90%
- Rising capital and operating costs
  - Capital costs in Australia around \$2,000/tonne
  - Rising energy prices
  - Low industry profitability
  - Little incentive for new capacity
- Move from "linked LME pricing" to spot based indices gathers momentum



## Will China's aluminium demand be supplied from within?



Source: Clark & Marron

- Urbanisation continues to drive strong demand
- Government looking to restrict growth of supply
- Smelters connected to grid have competition for power and higher costs

#### However

- More than half of China's smelters have own power
- New smelting capacity being built primarily in Xinjiang (North West Province) based on stranded coal



### **Summary**

- Bauxite, alumina and metal have different economic drivers
- Industry is less vertically integrated now
- China's current and future growth impacting on Asia-Pacific supply and demand for both bauxite and alumina
- Rising costs for capital and operating expenses are expected to see alumina prices rise



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