

Aluminium warehousing, premiums and prices

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Premiums

- Supply, demand, freight, rental, withdrawal and trading costs are drivers of premiums.
- The main driver is the broad supply and demand balance in the market. Premiums tend to increase when markets are tight and decrease when markets are oversupplied.
- Premiums are quoted over the LME cash price and vary according to delivery location.
- Premiums typically show a good correlation to LME cash price

What has changed

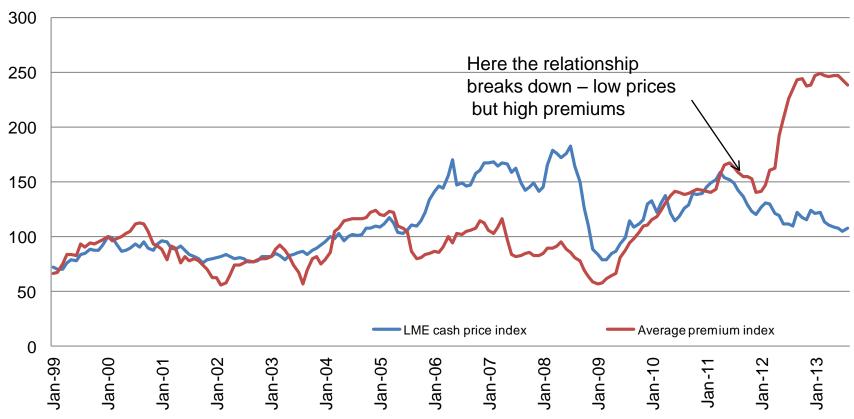
- In recent years LME inventories of aluminium have greatly increased, mostly as a result
 of the reduction in consumption associated with the global financial crisis.
- Based on historical evidence premiums should decrease, however, the premiums for physical delivery of aluminium have **hit record highs**.
- The relationship between market balance, premiums and LME cash price has evidently broken down

Why

There are two main reasons- inventory financing and warehouse backlogs



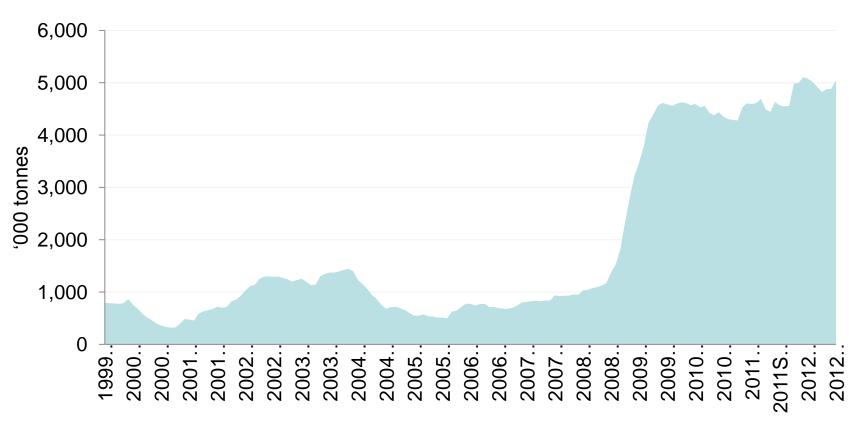
Average premium vs. LME price index (2000 = 100)



 $Note (^*): Average\ premium\ Index\ consists\ of\ average\ of\ US\ Mid\ west\ , Europe\ duty\ paid\ an\ d\ Japan\ 3M\ CIF\ p\ remium\ s$



Total LME aluminium stocks – sharp rise after financial crisis in 2008/9





Financing deals a product of cheap financing and high inventories

- The "carry trade" has long been a feature of the LME. However, since the Global Financial Crisis (GFC) (2008-09) a large amount of metal has been tied up in longer term financing – why?
- A large surplus of LME stocks built up, due to the slump in demand
- Availability of cheap finance and wide market contango, and low returns available elsewhere
- Warehouses attracted metal with offers of low rents and high incentives. Some banks and traders acquired warehouse companies
- In consequence, this metal was not available for physical consumption, and financial demand for metal drove up incentives, tightened the market for physical metal, and raised premiums



Warehouses acquired by banks and physical traders

Bank/Trader	Warehouse company	Purchase date	Main location	Total number of warehouses
Goldman Sachs	Metro	Feb 2010	Detroit	112
JP Morgan	Henry Bath	Feb 2010	Rotterdam	74
Trafigura	NEMS	Mar 2010		44
Glencore	Pacorini	Aug 2010	Vlissingen	179
Noble	Worldwide Warehouse Solutions	Oct 2010		15
Barclays	Erus Metals	Sep 2010	Antwerp	5
Data: LME, CRU				

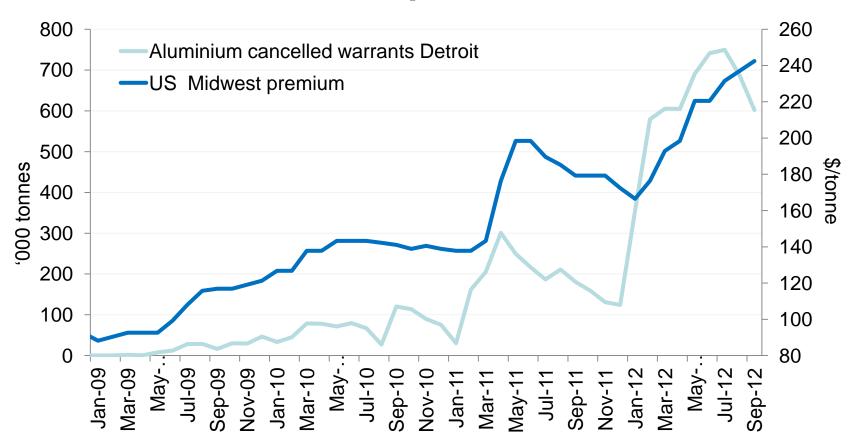


LME stocks have been concentrated in Detroit and Vlissingen





Cancelled warrants and premiums rise





What next?

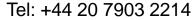
- LME proposal to increase outflows and limit queues to 100 calendar days
- Consumers call for greater transparency, higher load out rates, and smaller queues
- Producers call for greater transparency of LME warrants by establishing reporting similar to CFTC's Commitment of Traders Reports, and price mechanisms for hedging of premiums (exchange traded contracts)



Thank you for your attention

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- > Carbon Products Market Outlook
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- > Bauxite Long Term Market Outlook
- > Alumina Refining Cost Service
- > Bauxite Mining and Alumina Cost Model
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