

The alumina market outlook - 2013 -15

Simon Storesund, SVP Commercial, B&A Miami, March 14, 2013



Key messages – 2013-2015

Demand

Primary demand 2012-2015 CAGR:
ROW 3%, China 8.5%, (World: 5.5%)

Bauxite

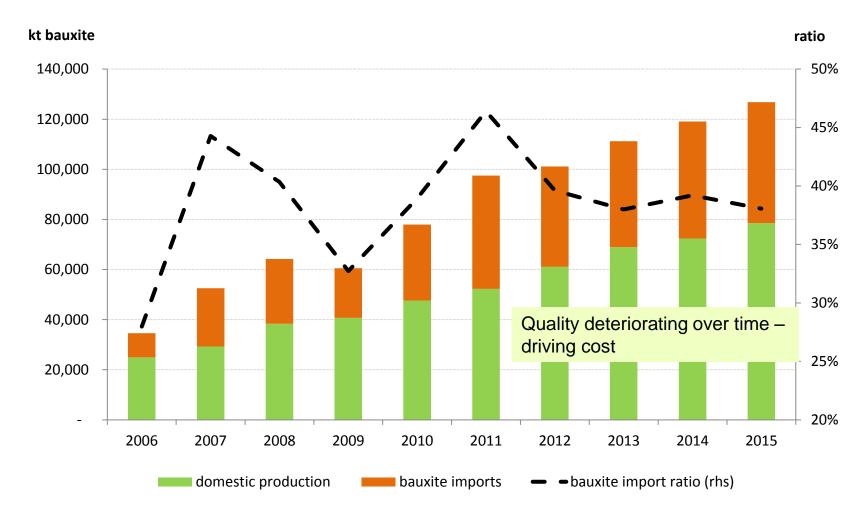
- China to be dependent on Atlantic import
- Tightening global bauxite balance

Alumina

- Expect a balanced market
- Potential for tighter market 2014-15, if China is not able to source the bauxite required



Chinese bauxite production not able to grow in line with demand

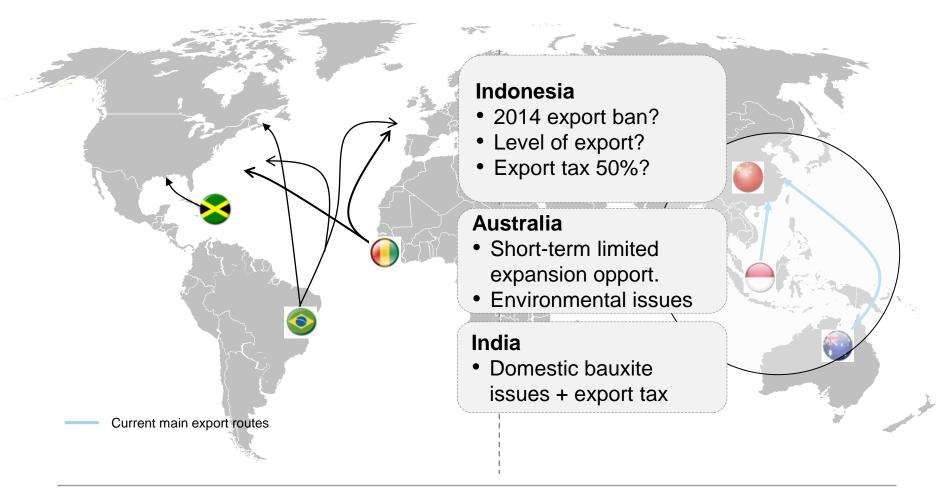


Source: CRU, Hydro analysis



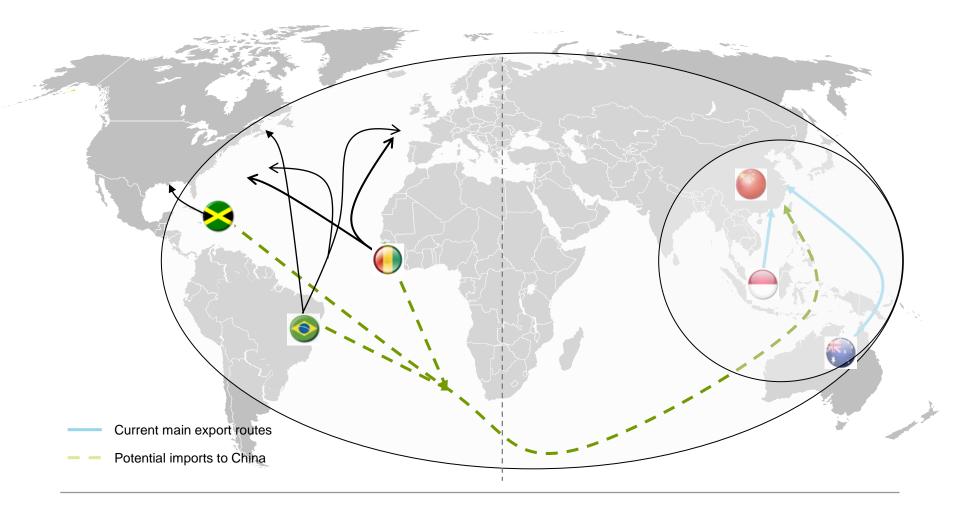
China is facing bauxite supply risks

Potential drastic reduction in export from Indonesia





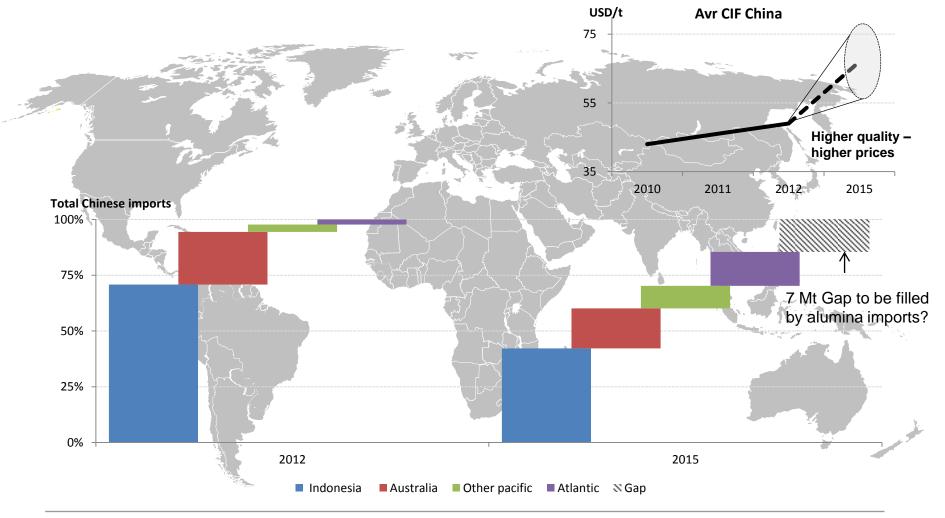
...and must likely expand its horizon in search for bauxite imports





...which is likely to increase bauxite prices CIF China

2015 scenario, assumed Indonesia export at 20 mill. tons per year

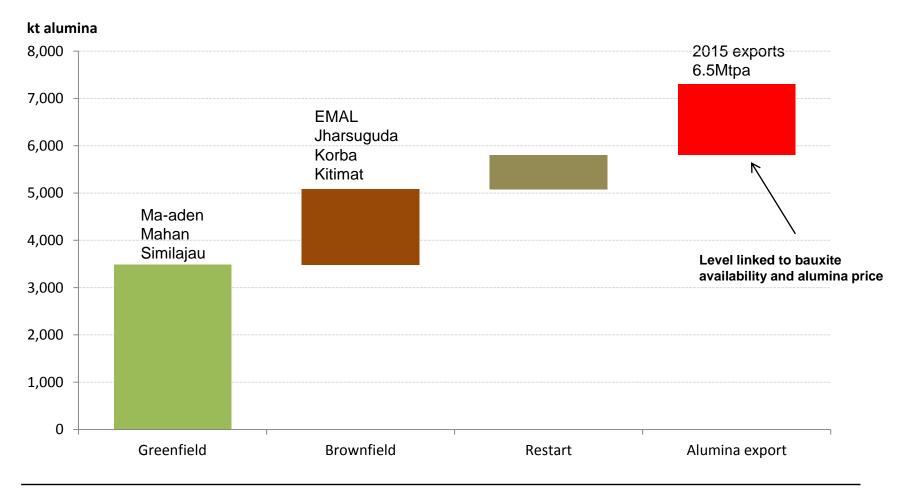


Source: Hydro analysis



ROW alumina demand increase – From 2012 to 2015

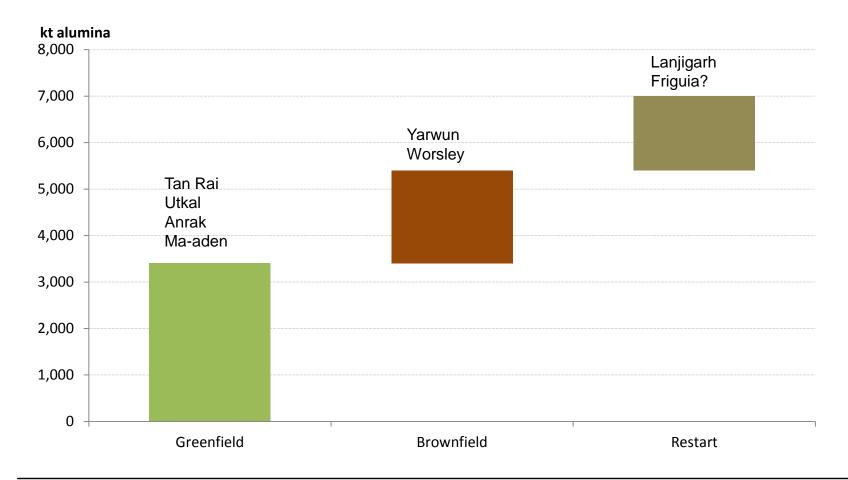
Primary demand 2012-2015 CAGR: ROW 3%, China 8.5%



Source: Hydro analysis



ROW alumina supply increase from 2012 to 2015



Source: CRU, Hydro analysis



Due to Chinese imports, the alumina market in the world ex. China expected to be broadly balanced for 2013-2015

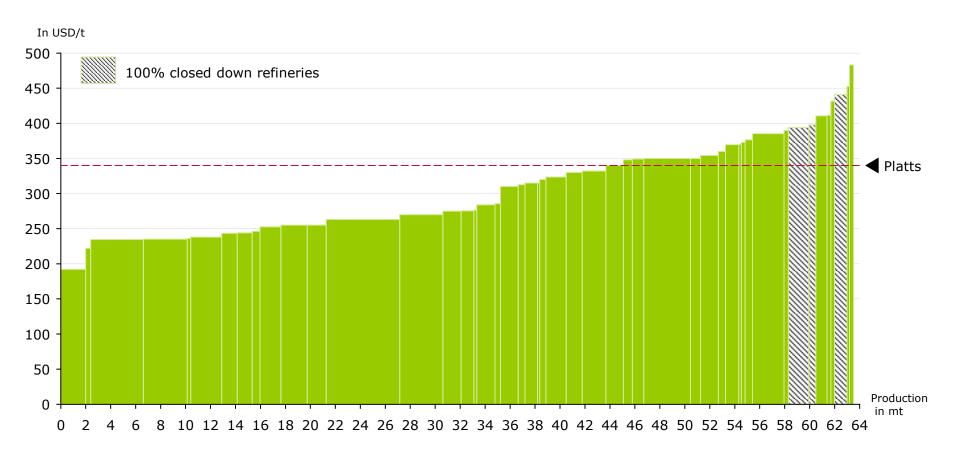


Source: Hydro analysis



ROW cash cost curve – several refineries cash negative

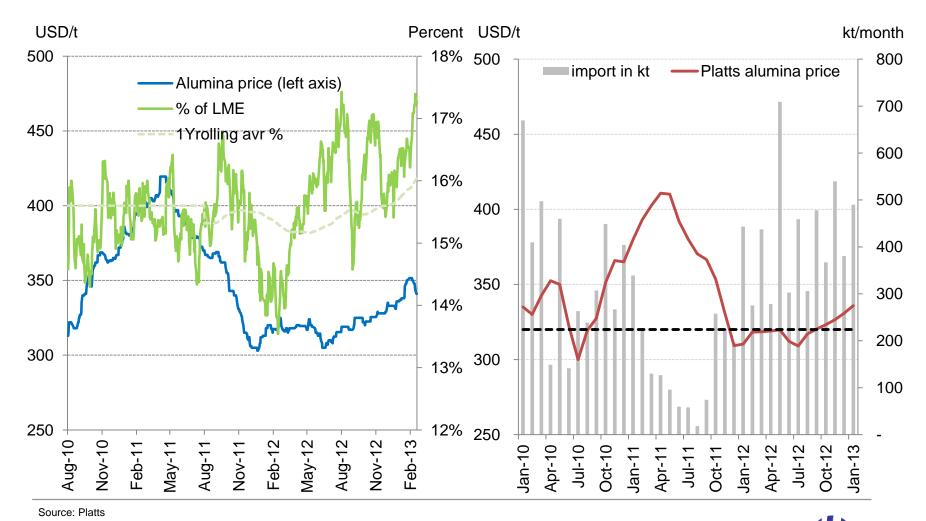
ROW Business operating cost 2012



Source: CRU, Hydro analysis



China: The World's swing producer – stabilizing the market



(11)

HYDRO

Concluding remarks

Demand

 Primary demand 2012-2015 CAGR: ROW 3%, China 8.5%

Bauxite

- China to increase import from the Atlantic
- Tightening global bauxite balance

Alumina

- · Expect a fairly balanced market
- Potential for tighter market 2014-15

Key factors to watch

- China domestic bx production and quality
- Indonesia export policy
- India access to domestic bauxite
- Potential supply disruptions

