

 **METALS & MINING**

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Expert call with Alcoa: Supply deficit to prop up aluminium price

- Aluminium price is being supported by deficits as supply disruptions outpace demand weakness
- While demand is softer with extended lockdowns in China and disruptions in auto, we may still see modest 2% growth in CY22
- China supply has rebounded faster, but curtailments in Europe and potential cuts in Russia are likely to put pressure on the supply chain

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We hosted Jim Dwyer, VP – Investor Relations and Pension Investments, Alcoa (AA US, Not Rated). Summarised below are our key takeaways together with highlights from company participation in other conferences over May-June.

Aluminium price supported by market deficits: Alcoa forecasts a higher deficit of 2mt for CY22 as supply disruptions outpace demand weakness. Inventory also remains low at the mid-40-day level. Despite the decline in prices, Alcoa expects Apr-Jun'22 to be a strong quarter with healthy EBITDA, albeit down QoQ.

Demand weak but should still grow in CY22: Alcoa forecasts positive demand growth of 2% in CY22. While extended lockdowns in China and a further pullback in automotive demand pose downside risks, a strong order book in North America, good offtake from European customers and healthy regional premiums indicate strong demand. Though the possibility of a demand shock remains, it is not a foregone conclusion yet. China's consumption is likely to rebound at some point given the committed high level of stimulus.

Supply disruptions continue: Out of 5mt of European smelting capacity, 0.7-0.9mt has already been curtailed and there is a further risk to 1-2mt of capacity due to the high energy prices. While Russian aluminium output decreases appear modest, the import of alumina into the country seems to be running at only half the required rate of 400kt per month. China's supply rebound has been faster, reaching a 40mt annualised run-rate, but is likely to top out at ~42-43mt over the next couple of years.

Medium-term outlook positive: Alcoa sees strong supply-demand dynamics over the medium term. Supply is likely to be constrained as China adheres to the announced cap of 45mt and the industry appears reluctant to build new smelters using conventional technologies, or without having adequate renewable power.

Working on breakthrough technologies: Alcoa's smelting solution, Elysis, is nearing completion with commercial utilisation targeted for FY24. The company is working on two technologies for refining and recycling post-consumer scrap (Astraea).



Additional highlights

Price supported by higher production costs

- The current alumina cost support level is ~US\$ 350-370/t. The support level for aluminium varies regionally and depends on the energy source used as well as hedging mechanisms for a marginal smelter.
- Steepening of cost curves gives first-quartile producers an added advantage – more so for alumina refineries than smelters due to higher variations across operating/efficiency parameters.

Healthy medium-term demand outlook

- Alcoa specifically highlights the healthy demand for electric vehicles and packaging. For the automotive sector, the impact of a lower build rate is being partially offset by the increase in vehicles with higher aluminium intensity in the mix.
- Alcoa reiterates that demand from new infrastructure (such as power distribution and renewables) is more aluminium-intensive.
- While aluminium competes with other materials for substitution demand, the current price differential (>3x) to copper helps maintain its relative advantage.

Supply disruptions are significant

- **Europe** – The apparent production level for April understates actual underlying cuts. Alcoa believes that apparent production levels are supported by energy contracts, hedging mechanisms and the tap-out of more metal while closing pots. It believes that nearly 0.7-0.9mt of supply has been curtailed and another 1-2mt is at risk if energy prices remain high for longer.
- **China** – The increase in exports seen in recent months looks temporary and could stem from lower domestic demand amid lockdowns.
- **Russia** – While there is no clear visibility on the closure of smelters, Russia seems to be receiving only half of its 400kt/month alumina import requirement from China and other partners. This poses a risk to Russian supply. Also, Alcoa is receiving significant inquiries from customers in the West to move away from Russian metal.

Reinventing aluminium for a sustainable future

Alcoa expects to be at an advantageous position in a decarbonised world, being a low-carbon producer of alumina and aluminium. More than 80% of its smelting is powered by renewables and over 80% of its refineries use natural gas as fuel. The company is further working on several breakthrough technologies to lower its carbon footprint.

- **Smelting** – Alcoa's Elysis JV is close to developing an inert anode solution to eliminate Scope 1 carbon emissions from the smelting process. Two smaller smelters (60kA and 100kA) demonstrating this solution are already operating, construction of a commercial size cell (400kA) is targeted for CY23 and commercial deployment of the technology is targeted from CY24.

- **Recycling** – Alcoa is working on Astraea technology to convert post-consumer scrap into high purity aluminium. The technology is still 3-4 years away from a demonstration plant.
- **Refinery of the Future** – The company is working on two decarbonisation initiatives for electrical calcination and mechanical vapor recompression to limit carbon emissions and freshwater usage.

Alcoa now offers the broadest suite of low-carbon products and has started deriving a 'small' premium.

- **Ecolum** – This is a low-carbon aluminium product with only 4mt of CO₂e emissions per tonne of aluminium through the entire value chain (i.e. collectively for bauxite, alumina and aluminium production). Alcoa is currently selling trial production from the Elysis JV to Apple. It anticipates that 40% of its European sales could convert to Ecolum aided by uptake from automotive customers.
- **Ecodura** – This product has a minimum of 50% of recycled content and is offered globally.
- **Ecosource** – Alcoa offers a low-carbon alumina product (0.6mt of CO₂e emissions per tonne of alumina) from all its refineries.

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