THE ALUMINIUM INDUSTRY REVOLUTION AT OUR DOORSTEP

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WHERE DO WE COME FROM?

The quest for aluminium smelting using inert anode technology dates back to 1886

Let’s take a look at the historical perceptions first:
+ It is the industry’s holy grail, hence it cannot be achieved
+ Inert anode technology consumes more energy than Hall-Héroult cells
+ Inert anodes are not so inert after all
+ Metal purity cannot be achieved

The industry has not yet delivered a commercially viable inert anode technology
WHY DOES INERT ANODE MATTER EVEN MORE TODAY?

+ Climate change impacts can be observed every day
+ Consumer’s environmental consciousness is on the rise
+ Generation Z influences business on climate change (Greta Thunberg\(^1\) at Davos)
+ Other industries are adapting to the new reality (end of combustion engine in sight)
+ Companies are working to reduce carbon footprint of their products
+ Capital intensity combined with low commodity prices represent a major challenge for the industry

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Greta Ernman Thunberg is a 16 year old Swedish political activist working to stop global warming and climate change. In August 2018, she became a prominent figure for starting the first school strike for climate outside the Swedish parliament building.

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\(^1\)
PARTNERSHIP BETWEEN TWO WORLD LEADERS IN THE ALUMINIUM INDUSTRY

Alcoa | RioTinto

World leading breakthrough proprietary materials

World’s leading smelting and electrodes technology development and sales organization

Ready to scale-up

World leading breakthrough cell design

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ELYSIS ANNOUNCEMENT
MAY 2018

Alcoa
RioTinto

Québec
Canada

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INDUSTRY GROWTH CYCLE

- Major reduction in capital cost
- No carbon sector
- No $SO_2$ scrubber

INDUSTRY DOWNTURN BUSINESS CASE

- Retrofit solution addresses capex challenge
- Replace Hall-Héroult cell in existing building
- Conversion during smelter operation
- Repurpose carbon area
STEP CHANGE IN OPERATING COST

+ Inert anode life 30 times better than carbon
+ Proprietary materials supplied by ELYSIS™
+ Eliminates potential implications from carbon taxes
+ Improves occupational health and safety
A NEW ERA FOR THE ALUMINIUM INDUSTRY

When environmental and financial performance meet