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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 Thunberg¹⁾ 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

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.



PARTNERSHIP BETWEEN TWO WORLD LEADERS IN THE ALUMINIUM INDUSTRY

RioTinto

Alcoa

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Alcoa

RioTinto





Québec 👪





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INDUSTRY GROWTH CYCLE

Major reduction in capital cost

- + No carbon sector
- + No SO₂ 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





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A NEW ERA FOR THE ALUMINIUM INDUSTRY

When environmental and financial performance meet

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