

Gronne Bjerg Anorthosite Project

Creating Zero Waste, Low Impact Alumina from Anorthosite

- Massive calcium-rich feldspar at Gronne Bjerg
 - Silicon (50%), aluminum (32%) and calcium (15%)
- Large anorthosite complex over six sq km with 1,200 meters elevation fully exposed
- Simple mineral processing
 - No water or chemicals used in Greenland
 - No vegetation or stripping - no waste rock and minimal impact to environment
- Only 80km from the capital of Nuuk on open tidewater and adjacent to one of the best potential hydroelectric projects in Greenland
- Excellent support from local communities and government having operated in Greenland for 20 years



Anorthosite versus Bauxite

Anorthosite

- Easily leachable due to high solubility in hydrochloric acid
- 85-90% of alumina goes into solution
- Alumina solution is free of heavy metals and silica
- Recent progress in liberation techniques allows for min 70% acid regeneration for hydrochloric acid
- Byproducts of calcium silicate and amorphous silica have market value
- Zero tailings or waste products

Bauxite

- Caustic soda acid required for leaching bauxite is expensive
- Deforestation required for mining
- Bauxite requires high temperature and pressure autoclaves for leaching which adds to energy impacts
- Bayer Process creates 2-3 tonnes of caustic red mud tailings for every tonne of alumina
- 3 billion tonnes of waste sitting at processing sites and growing



Green Alumina Production

The Time is Right for a Zero Waste Low Impact Green Alumina

- Proven flow sheet using tried and true technologies at bench scale. Scalable process with no black box technologies.
- Currently producing smelter grade alumina (SGA) and byproducts at SGS lab facility in Canada
- Plan to have major aluminum companies testing the SGA in second half of 2024
- AnorTech is looking for an innovative forward looking aluminum company to partner with and bring the technology to commercialization in a timely manner
- Ability to fast-track development once funding in place

