

Cool Chips plc

Cool Chips™

Markets

Semiconductor Fabrication



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Fabrication Cost

Cool Chips™ is a chip-based technology, with precise, but simple construction.

- Non-exotic materials with moderate contamination tolerance
- No costly materials involved in processes
- Very small devices require small amounts of material

Marginal cost of Cool Chips™, in production, could be as low as pennies per watt capacity



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In addition to high efficiency, Cool Chips™ are expected to be very inexpensive to make.

A number of factors come into play when estimating the cost of a product like a turbine or a compressor. The marginal costs (the cost of making one more unit on an already-present assembly line), are heavily dependent on the following factors:

1: Materials quantity. No device can cost less than its parts. And big, heavy machines like turbines and compressors have a lot of steel, copper and iron in them. This is an unavoidable cost. Cool Chips™ use very little in the way of raw materials -- at least an order of magnitude less than the competition. A single chip, capable of 100 watts of cooling, will measure less than 1 cm on a side, and be only a few millimeters thick.

2: Material quality. As machines improve, the specifications for their components become ever-more demanding. If the components must be of very high materials purity, a significant cost is added. This cost, unlike, say economies of scale, is not reduced easily. The price of 99% pure iron is far less than 99.9999% pure iron. Cool Chips™ can use relatively impure materials.

3: Machining/assembly costs. The more welding, bonding, sealing, etc. which is required, the higher the costs as well. Cool Chips™ are extremely simple to manufacture -- much less complicated than an Intel 386 processor, for example.

4: Component costs. The more pieces have to be put together, the more it will cost. Cool Chips™ have a very small component count, much less than competing technologies.

The Big Picture

Cool Chips™ are projected to be a high margin, high volume product which is:

- ... >>1 billion Cool Chips™ to be sold per year, across dozens of industries.
- ... Superior to all other existing and projected technologies
- ... Proprietary, allowing a 20 year head start
- ... Environmentally Friendly



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Cool Chips Corporate Overview

Cool Chips plc

- Gibraltar Company Number 57885
- Incorporated 23 April 1996
as Borealis Cool Manufacturing Limited
- Name change to Cool Chips Limited 1 June 2000
- Re-registered as public limited company 27 July 2000

Publicly traded (Pinksheets: COLCF)

- Capital Authorized and Outstanding: 10 million shares
- About 350 shareholders; >70% owned by Borealis Exploration Limited
- Fully audited reporting



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