

## CEO's Perspective



**invest**

Focusing on providing a totally new power source for cell phones

While many Canadians have had the opportunity to see or even ride in a fuel-cell powered vehicle, not many have seen or used a hydrogen-powered flashlight, cell phone or MP3 player. If Angstrom Power succeeds with its technology, which is environmentally sustainable and efficient with pure water as its only waste product, these items may become a common occurrence within five years.

Dr. Ged McLean, Angstrom's Chief Technology Officer, incubated the initial ideas at the University of Victoria. The research continued at Angstrom to include novel formulations of metal hydrides (that absorb hydrogen) as a foundation for making small fuel cell systems. Since then, we have received, or applied for, over 60 patents for our technology worldwide. Angstrom is working on designing the cells to fit many electronic devices that require small-scale and consistent power at high levels of energy density.

So far we have created flashlights and bicycle lights to demonstrate the feasibility of our technology. At this stage these are designed more for industrial and institutional use – we have received grants to test them in real-life applications in such locations as the Vancouver International Airport and the Royal British Columbia Museum. We are also testing the technology for search-and-rescue, and police use. In addition we have made hydrogen-powered electric chargers and these are being tested in hospital and transit applications.

The primary mass market focus for our technology is the mobile phone sector. It is a very compelling opportunity – there are over one billion phones in use worldwide and the demand for greater energy density is constantly increasing as functions like cameras, MP3 audio and even streaming video converge onto the mobile phone. We are in discussions with many of the major phone manufacturers worldwide regarding the use of our fuel cell technology. Japan and Korea are typically lead innovators in trialing new technology. The problem of finding a readily available source of hydrogen to recharge the fuel cells in those countries may be more readily addressed since they already

### Company Facts and Statistics

<b>Year founded:</b>	2001
<b>Number of employees:</b>	35
<b>Product:</b>	Miniature fuel cells
<b>Website:</b>	<a href="http://www.angstrompower.com">www.angstrompower.com</a>
<b>Working Opportunity Fund's initial investment:</b>	April 2002
<b>Amount invested to July 31, 2007:</b>	\$5.4 million

have public booths where customers recharge batteries for a small fee. We are discussing economical infrastructure solutions with industry leading companies in the compressed gas, kiosk and cartridge industries worldwide.

We signed prototype agreements with several cell phone manufacturers in 2007 with the goal of having a commercial prototype ready in 2008. A year later we plan to enter into commercial supply agreements. With such a large market opportunity as mobile phone power and with the need for multi-sourcing, we intend to license our technology to some companies as well as manufacture ourselves. At this stage, we are largely a pre-revenue company but we are intently focused on building a successful and very profitable commercial business.

**Paul Zimmerman, CEO**

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