

399 LINDBERGH AVENUE, LIVERMORE, CA 94551

## UltraCell Methanol Logistics and Fuel Cells Complete Multi-lateral Military Trials

July 19<sup>th</sup> 2013, Livermore, CA

In conjunction with Eylex Pty Ltd, our Australian and New Zealand regional partner, UltraCell is pleased to announce that our XX55 Fuel Cell Power System and the CliC-It methanol filling station recently completed evaluation by the NZDF (New Zealand Defence Forces) Battle Lab.

Trials originally commenced in 2012 with the Battle Lab evaluating several XX55 systems. Results were extremely pleasing and the evaluation was extended and successfully peaked in May 2013 where XX55 Fuel Cells, supported by our CliC-It refilling system, were deployed during exercise Alam Halfa field exercise. Alam Halfa is a major multi-lateral exercise involving the US Army & Marine Corps, Australian Troops, as well as local NZ Army and Royal NZ Air Force personnel. <http://www.army.mil.nz/about-us/news/public-notice/exercise-alam-halfa.htm>



The XX55 was fielded as a reliable, man-packable power generation system. Its lightweight and efficient operation makes it highly transportable. Near silent operation make it suitable for tactical roles. Power can be generated or batteries recharged whilst away from support platforms, eliminating the need for sun, wind or cumbersome mechanical and gasoline powered systems. During Alam Halfa, our XX55 fuel cells were used to power mission critical communications equipment, including handheld and man-pack radios, laptops and other devices requiring either 5V USB, 12VDC Cigarette lighter or 24VDC outputs.

Of key importance, the NZDF was able to locally source its own Methanol fuel liquid, an important part of the XX55's fuel mixture. This is a low cost COTS (commercial off the shelf) item and readily available from local sellers.

With the addition of di-ionized water, NZDF used the CliC-It to re-fill their portable cartridges. *"We were pleased with the operation of the XX55 and CliC-It. Throughout our testing they have proved a stable and reliable power source. The fact that no complicated training was required and we were able to locally source methanol was an important success of the trial,"* said Capt. Leabourne, of the NZDF Land Combat Working Group.



UltraCell's, chief technical officer, Ian Kaye, said that *"Our XX55 is the only portable Fuel Cell that stores, starts up and operates in climates ranging from -30C to +55C and is roughly 50-70% lighter than batteries. New Zealand's real world testing is validating the cost reductions, weight savings and low fuss convenience that the worlds dismounted market is asking for,"* he added.

UltraCell was founded in 2002. Bren-Tronics Inc. acquired certain IP and assets of the company in 2011, and formed UltraCell LLC. Leveraging Bren-Tronics' military manufacturing expertise, we have continued to commercialize Fuel Cell technology with the success of our industry leading XX55™ micro fuel cell system.

Further information is available from the contacts below:

Ian Kaye  
UltraCell LLC  
Livermore, CA  
[ikaye@ultracell-llc.com](mailto:ikaye@ultracell-llc.com)

Kyle Roelofs  
Bren-Tronics  
Commack, NY  
[kroelofs@bren-tronics.com](mailto:kroelofs@bren-tronics.com)

Australian & New Zealand customers:  
Eylex Pty Ltd - [www.eylex.com.au](http://www.eylex.com.au)  
[sales@eylex.com.au](mailto:sales@eylex.com.au)

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