



Hydra Light technology aims to make single-use batteries obsolete

Melbourne-based Australian tech disruptor Hydra Light International Limited has developed an electrochemical cell that can generate power by being dipped in water. The technology has the potential to revolutionise the portable power industry and eliminate the need for single-use batteries.

When immersed in water, the HydraCell harnesses the electrons liberated from a magnesium anode into a useable direct current (DC) power. The technology is ideally suited to remote communities, or areas with intermittent traditional power sources.

The HydraCell has several advantages over established technologies, particularly traditional dry-cell (alkaline) batteries and kerosene. It can generate its own power when activated, as opposed to a traditional battery which stores and releases power. It has a virtually infinite shelf life of many decades before it is activated. Once immersed in water, the HydraCell will operate for 250 hours, making it 30 times more powerful than an AA alkaline battery at a fraction of the cost, size and weight.

The materials in the HydraCell are consumed during the cell's lifetime and it is fully recyclable, avoiding soil contamination, an issue when disposing of traditional

batteries into landfill. The HydraCell has the potential to replace disposable batteries, kerosene or candles and to power for USB devices: hydracellpower.com

