

ETERNITY POWER

THERMAL HARVESTING™ FROM A METALLURGICAL CONVERTER



The award winning Eternity Power Thermal Harvesting™ project was developed by Vuselela Energy (Pty) Ltd in 2012 as the world's first power plant of its kind. The Eternity plant with an installed capacity of 5MW was constructed at the Anglo (now Valterra) Platinum Waterval Smelting Complex near Rustenburg.

The novel innovation uses waste heat from the VCP converter cooling circuit to evaporate an organic liquid and drive an expansion turbine. The plant is designed to generate 4.3MW of clean power using waste heat generated by the converter and results in a reduction of the smelter's carbon footprint. The plant was hot commissioned in June 2015 and has generated over 65,000 MWh of nett electricity to date with an average availability of over 96%.

Eternity Power is a subsidiary of H1 Holdings (Pty) Ltd, a certified Level 1 BBBEE 100% black owned and led company, who has been successful with a number of other investments in the REIPP programme. H1 Holdings is also an investor in Vuselela Energy who is the original developer of the project and operates and manages the plant. The project has economic benefits for Valterra Platinum and reduces their electrical power and greenhouse gas footprint.

This project is another addition to Vuselela's suite of novel, non-intrusive and custom-fit clean energy solutions, complimenting its Thermal Harvesting™ portfolio. Vuselela has completed other feasibility studies that are awaiting implementation, including several based on patented thermal applications.

We improve the quality of life by producing cleaner energy.

www.vuselela.energy www.h1holdings.co.za

