



Eternity Power Thermal Harvesting™ from a Metallurgical Converter.

Eternity Power's award winning Thermal Harvesting™ project was built at the Anglo American Platinum Waterval Smelting Complex near Rustenburg and has an installed capacity of 5MW. The Eternity Power Thermal Harvesting™ Power Plant was developed by Vuselela Energy (Pty) Ltd and represents a leap in the field of energy efficiency innovation. It is the world's first power plant of its kind with an ORC connected to a metallurgical converter

This groundbreaking initiative uses waste heat from the ACP convertor 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 is performing beyond expectations, generating more power than designed even at lower than expected heat loads. As of March 2016, Eternity Power has generated 8260KWh of nett electricity for the ACP smelter with an average availability of over 95%.

www.vuselela-energy.com
www.h1holdings.co.za

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 recent 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 Anglo American 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 lives by producing cleaner energy.

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