

ABOVE GROUND GEOTHERMAL AND ALLIED TECHNOLOGIES – PAVING THE RESEARCH ROADMAP

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ABSTRACT

The Above Ground Geothermal and Allied Technologies (AGGAT) Research and Development (R&D) Programme is a collaborative initiative borne out of a Clean Energy development focus in the Heavy Engineering Industry of New Zealand. The programme is a positive testament to government, industry and academia as well as international experts working collaboratively to achieve a common objective of providing an R&D platform for growth in the clean energy technologies. The predominant focus of this programme is on the Organic Rankine Cycle using the research expertise of academic institutions and manufacturing capability of Heavy Engineering companies in NZ. Research is carried out in the areas of Technology Concepts, Turbines, Heat Exchangers, Control Systems, Materials and Fluids. The programme has been in operation for nearly three years now and has made progress towards establishment of pilot scale testing facilities on waste heat and geothermal based heat resource sites. Research progress update is provided along with opportunities identified for future collaboration especially with international partners.