



Arvus Group is a New Zealand based technology trailblazer with almost 30 years of continuous innovation, research and product development covering wide range of industries including:

- **Electronics** - power, audio, system integration
- **Acoustics** - environment, infrasound, auditoriums, loudspeakers
- **Geothermal Power Generation** - non-aquifer based thermoelectric systems
- **Atmospheric and Geology Monitoring** - early warning systems for volcanoes & weather
- **Digital Signal Processing** - 2D & 3D data imaging, digital audio converting
- **Optics** - front and rear projection screen design
- **Nuclear Sciences** - research and strategic collaboration on Molten Salt Thorium Reactor development
- **Chemical Sciences** - plastics and adhesive development
- **Cinema** - development of digital audio systems in China and India
- **Magnetic Design and Engineering** – magnetic levitation transport systems for amusement parks

Arvus has supplied its unique products and services in over 30 countries to companies like Disney, Sony, Dolby, SingTel, Imagineering, four Military Organisations, dozens of Universities and hundreds of lesser known innovative companies. With continued support and investment from the New Zealand Ministry of Science and Innovation, Arvus Group International and its world unique resources are the perfect “lateral thinking solution partner” for the rapidly evolving 21st century.

KEY PROJECTS RELEVANT TO SKA

THERMAGENZ™ - Thermagenz is a revolutionary, “Non-aquifer solid-state thermoelectric power generator”. Designed to harness land heat from 90-350°C, using a revolutionary Thermal Super Conductor. Thermagenz™ is suited from depths of 10m down to 1km. Once installed Thermagenz Power Modules use no moving parts, are extremely reliable and have low maintenance requirements. Thermagenz has also been designed as a platform technology to allow future upgrades as thermoelectric technology development continues. The first 50kw (1 module) Thermagenz installation is scheduled for early 2013 in Taupo, New Zealand.

GEOCOUSTICS™ - Geocoustics is a “real-time calibrated Infrasound monitoring system that converts the data into an audio visual interface for easy data assimilation”. Geocoustics enables faster response times for volcanic events and also facilitates monitoring of earthquakes, meteorites, explosions, tsunamis and weather events. Arvus Group is working with GNS Science to test and validate the technology.

NEW ZEALAND CLEAN ENERGY CENTRE - As of April 2012 Arvus Group Founder, Matthew Simmons has also been appointed the General Manager of the New Zealand Clean Energy Centre. www.nzcec.com

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