

Company status updates

Australian Geothermal Licence Holders (Alphabetical Order)

AAA Energy is an unlisted company with 9 licences (GELs 340–348) in the Great Artesian Basin in South Australia. The company was also a successful applicant for one geothermal licence in the first acreage release over the Perth Basin. For more information visit: www.cgi.net.au

A.B.L.R Joint Venture. This consortium has one licence application (GELA 287) south of Olympic Dam in the Gawler Craton in South Australia. This application will be determined in 2009. For more information contact: jim.allender@gmail.com

AGL Ltd is listed on the Australian Stock Exchange, and has reached an agreement with Torrens Energy to fund the deep drilling of Torrens first well in any of Torrens Australian geothermal licences, in order to earn a 50% working interest in the project. For more information visit: www.agl.com.au

Austral Iron Pty Ltd was the successful applicant for one geothermal licence adjacent to Green Rock Energy's licences near Geraldton in the Perth Basin. For more information contact: davidmilton@asiairon.com

Australian Worldwide Exploration Limited (AWE) is an Australian based oil and gas exploration and production company. AWE was recently admitted to the prestigious ASX 100 Index. AWE currently has oil and gas interests in Australia, New Zealand, Indonesia, Yemen, Vietnam and Argentina, and is actively reviewing additional growth opportunities. AWE, through its wholly owned subsidiary Arc Energy, is a joint venture partner with Green Rock Energy in 7 new geothermal licences south of Geraldton in Western Australia that were offered in early 2009. These licences will be operated by Green Rock Energy. For more information go to: www.awexp.com.au

Beach Petroleum Ltd is a long established oil and gas Exploration and Production Company. Based in Adelaide, South Australia that has entered into an agreement with Petratherm to contribute up to \$30M for a 36% interest in the Paralana project. For more information visit: www.beachpetroleum.com.au

BHP Billiton Worsley Alumina Pty Ltd is a joint venture operation between BHP Billiton, Japan Alumina Associates and Sojitz Alumina that is located in Western Australia. Worsley Alumina has entered into a JV with Green Rock Energy (Operator) in 3 geothermal licences recently awarded to Green Rock Energy near Collie in the southern Perth Basin. For more information contact: ben.m.pudney@bhpbilliton.com

Callabonna Energy is an unlisted company with 6 licences (GELs 296, 304–307 and 350) adjacent to Petratherm's Callabonna Geothermal Project in the Mount Painter area in South Australia. For more information visit: www.planetgas.com

Clean Energy Australasia Pty Ltd (CEA) is a privately owned company. CEA have secured 22 tenements in South Australia and eight in Queensland where prospective hot rocks are located well within conventional drilling depths. The South Australian tenements and one Queensland tenement are located in the Cooper Basin where petroleum and geothermal well data confirms temperature gradients of 50°C/km depth. The tenements are also located close to modest-in-size local and regional electricity markets, with the nearest points of connections to the national grid at Olympic Dam and Broken Hill being approximately 400km away. Seven Queensland tenements are located in the Great Artesian Basin which overlies and insulates high temperature rocks in this area: one tenement is located near Longreach, one is located near Charters Towers/ Hughenden and five tenements are located south of the North West Queensland Minerals Province, which include major copper, lead/zinc and silver mines at Mt Isa and Cannington. CEA is currently progressing towards proof-of-concept commercial power generation projects in the Moomba, Longreach and NWQ regions. For more information visit: www.cleanenergyaus.com.au

Deep Energy is an unlisted company with 6 licences (GELs 308 and 311–315) over the western and southern margins of Lake Frome in South Australia. For more information visit: www.adavaleresources.com.au

Earth Heat is an unlisted company with 3 licences (GELs 337-339) over the Adelaide Geosyncline in South Australia. For more information contact: vanibe@bigpond.com

Earth Solar Power Pty Ltd were awarded 9 geothermal licences in northern Victoria in December 2008 covering in excess of 70,000 km² covering the Murray Basin and have also been offered an additional 3 geothermal licences near Carcooy in Queensland. For more information contact: howard.bass@earthsolarpower.com.au

Eden Energy Ltd listed on the Australian Stock Exchange in May 2006 (ASX Code: EDE) and is focused on clean energy technologies, including hydrogen technologies, transport fuel systems, natural gas and geothermal projects. Eden and its 100% owned dedicated geothermal subsidiary company Terratherma hold a total of 23 geothermal exploration licences covering just under 12,000 km² - 22 Geothermal Exploration Licences in SA (GELs 166 – 169, 175 -177, 185, 329, 330 and 411-422) and EL 7090 in NSW. These Licences are located in four geothermal areas of interest: (1) the Northern Torrens Hinge Zone, including the Witchellina area northwest of Leigh Creek and Coorichina in the Mulgaria basin NW of Lake Torrens; (2) the Renmark area north of the Murray River; (3) the Moomba region in the Cooper Basin/ southwest Eromanga Basin adjacent to Geodynamics' project, at Bollards Lagoon and at Mungeranie, on the Birdsville Track; (4) the Pirie area between Adelaide and Port Augusta. These areas of interest cover a wide range of geothermal play types, ranging from the deep hot fractured granite model in the Moomba area; relatively shallow (2-3 km) heat sources associated with buried radiogenic iron oxide and granite in the Torrens Hinge Zone; and enhanced permeability zones in the Renmark Trough associated with elevated heat flows. An aggressive exploration program across all licence areas is planned to begin in late 2008 with a view to locating, defining and creating an inventory of potential geothermal resources to an Inferred Resource level under the new Geothermal resource reporting code. After this, the most promising projects will be selected to progress to proof of concept phase. Given success in its proof-of-concept drilling, Eden plans to target electricity markets, direct use applications and hydrogen production opportunities. Eden's first shallow heat exploration well, Chowilla-1, was drilled near Renmark to a depth of 512m in the first half of 2008, with the assistance of \$100,000 from the PACE 4 initiative. For more information, visit: www.edenenergy.com.au

Ergon Energy currently has the only operating utility owned geothermal power station in Australia. The power station uses low temperature bore water at ~ 98°C at a flow rate of 27 l/s and produces ~120kW gross and ~80kW net of energy. Ergon Energy is in the process of reviewing the remaining life of the power station and investigating options and plans to replace the aging equipment with new and more efficient geothermal generation equipment. For more information, visit: www.ergon.com.au

Geodynamics Ltd (ASX Code: GDY) has the most advanced hot rock geothermal project in Australia. Geodynamics has first mover advantage in Australia with its Habanero-Jolokia-Savina project in granites beneath the Cooper Basin in northeast South Australia and is the only proponent with a proven Enhanced (Engineered) Geothermal System (EGS) in its tenements. Geodynamics has drilled four deep wells and is drilling a fifth in this project area, including: Habanero 1 (Total Depth: 4,421 m), Habanero 2 (total depth: 4,357 m; 500m SE of Habanero 1), Habanero 3 (Total depth: 4,221 m; 550m NE of Habanero 1) Jolokia 1 (Total Depth: 4,911 m; 9.5 km WNW from Habanero 3) and Savina (Drilling ahead at 3,244 m on 19 December 2008 with a planned total depth of 4,250 m; 10km WSW of Jolokia 1 and 19km W of Habanero 3.). The granites at both Jolokia and Savina will be hotter at shallower depths than encountered in the Habanero wells. These wells will enable Geodynamics to firm up its reserves estimates and provide a choice for locating its planned 50 MW demonstration project.

The Habanero Project was the first and remains the most advanced Hot Rock 'proof of concept' project in Australia. Flow of geothermally heated formation waters (with 20,000 ppm Total Dissolved Solids) from Habanero 2 was achieved in 2005 at a maximum rate of 25 litres/second to surface at (up to) 210°C. The geothermal reservoir in the Habanero wells is a water-saturated, naturally fractured basement granite (250°C at 4,300 m as reported by Geodynamics) with permeability that was effectively enhanced by fracture stimulation. The connected EGS created at Habanero is laterally more extensive than achieved anywhere else in the world. Two fractured reservoir zones are present in the Habanero wells: a shallower, less permeable zone at 4,200 m; and a deeper, more permeable zone below 4,300 m. An obstruction in Habanero 2 (the intended production well) interfered with a planned flow test of the main fractured reservoir below 4,300 m while the less-productive upper fractured reservoir zone at 4,200 m remained accessible. To conclude a circulation test of the main fracture zone, Geodynamics drilled a sidetrack borehole around the blockage in Habanero 2. The sidetrack progressed to a depth 100 m above the target reservoir when the drill bit became stuck. Attempts to conclude drilling operations in the Habanero 2 sidetrack were abandoned in June 2006. Geodynamics subsequently drilled Habanero 3 with an 8 ½ inch hole through its Hot Fractured Rock (HFR) reservoirs (compared to 6 inch through reservoirs in Habanero 1 and 2). During testing, Habanero 3 was sustaining production of 208 °C formation water at a rate of 18 kg/second and at a flowing pressure of 27.5 MPa (3,990 psi) through a 12.5 mm fixed choke. The flow is directed to a steam separator designed for up to 25 kg/second input, the rate achieved with an output temperature of 210°C from Habanero

2 in 2005. Produced fluids from Habanero 3 flow through a variable choke capable of increasing production. In one short experiment lasting 3 minutes the variable choke was opened to 100% and production of 40 kg/second was sustained over that period. Productivity is 400% higher than that obtained from Habanero 2 in 2005, where lost down-hole equipment impeded flow and eventually caused blockage from the main fracture zone. During production and shut-in of Habanero 3, the monitored well head pressure at Habanero 1 responded as expected, indicating good communication between the wells at 4,250 m depth. The high rates of injectivity into the heat exchanger from Habanero 1 and 2 and pressures measured at Habanero 1 and Habanero 3 during flow testing in March 2008 indicate the presence of a large volume of low impedance, water saturated reservoir where the rock temperature is 250°C (at 4.3 km). Flow testing of Habanero 1 and 3 continued in late 2008 through early 2009 and chemical tracer injection between Habanero 1 (the injection well) and Habanero 3 (the production well) commenced in mid December 2008. The horizontal extension of stimulated reservoirs at the Cooper Basin site lends itself to multi-well developments

On 31 March, Geodynamics announced that the company had successfully completed 'Proof of Concept'. As a further step in demonstrating commercial viability, Geodynamics is currently constructing a small (1 MWe) power generation plant which is expected to be commissioned in mid 2009 to supply electricity to the local town, Innamincka.

This is the final phase of work to precede Geodynamics' HOTROCK 50 project which a proposed 9-well, 50 MW power station. The 9 wells will be drilled 1 km apart at 4 km depth. This will entail 4 injection wells and 5 production wells forecast to yield 10 MW net per well from flows of 120 kg/second/well. This will be an important milestone for the demonstration of EGS from HFR in Australia and a stepping stone towards commercialising vast renewable and emissions-free geothermal energy supplies to meet Australia's future baseload energy requirements. Geodynamics believes that 'Proof of Concept' will lead to large-scale development of an extensive area of more than 1,000 km² where rock temperatures, stress conditions and rock properties are extensive and favorable for geothermal energy production. Geodynamics has three key cornerstone investors, Origin Energy, Sentient/Sunsuper and Tata Power. Origin Energy has extensive upstream petroleum interest and Tata Power has extensive power station development interests. For more information visit www.geodynamics.com.au

Geogen Victoria Pty Ltd were awarded 4 geothermal licences in Central Victoria between St Arnaud and Ballarat and has been given approval for a 24 well drilling program scheduled to begin in May 2009. The wells will be drilled to a maximum depth of 310m and are located across the 3 central highland permits held by Geogen. On cessation of drilling the wells will be suspended for a period of 12 months to allow equilibrated temperature data to be gathered. For more information visit: www.geogen.com.au

Geopower Pty Ltd was the successful applicant for 3 geothermal licences located in close proximity to Perth in the Perth Basin. For more information contact: jenny.archibald@bigpond.com

Geothermal Resources Ltd (ASX Code; GTH) has three hot rock geothermal exploration projects: Frome, Crower and the Otway Basin, all in South Australia. The Frome project lies within the Arrowie Basin, which is underlain by some of the most radiogenic Mesoproterozoic granites in Australia, associated with numerous historic uranium occurrences in the Curnamona Province. In the Frome project area a large body of granite reached in Frome 12 is also evidenced by a regional gravity low and non-reflective seismic responses, is interpreted to lie beneath 2-4 kilometres thickness of younger sedimentary cover rocks. With the assistance of a Commonwealth government REDI grant of \$2.4 million and a \$100,000 PACE 3 grant by the South Australian government, the company completed 4 holes to approximately 500 metres depth on its Frome Project during 2007. Temperature logging indicated abnormally high temperatures within the sediments above the interpreted buried granite body, with geothermal gradients comparable to the Cooper Basin, thus vindicating the buried granite heat source model. Geothermal Resources drilled 3 wells in 2008 (Frome 5A, 10 and 11), providing encouragement to locate and drill Frome 12 which was completed in February 2009 to a depth of 1761 metres. Samples of the granite from this well 12 are reported as having 'well developed subhorizontal fracturing'.

The company plans to drill at least two additional holes to roughly 1,800m in the Frome area during the first half of 2009. These wells will be tied to existing seismic data to select a deep well location. The Frome project is located some 120 kms away from the extension of the NEM to the township of Broken Hill. A number of active minerals exploration projects that lie between the Frome Project and Broken Hill are additional, potential future power markets.

Owing to current market conditions, Geothermal Resources will defer in the Crower project in favor of more drilling on the Frome project. Crower lies along the northern margin of the onshore Otway Basin where early Palaeozoic granites of the Padthaway Ridge dip beneath onlapping Jurassic to Cretaceous sediments.

Geothermal Resources was also granted 2 GELs in the South Australian Otway Basin in 2008, where pre-existing petroleum wells define a prospective Hot Sedimentary Aquifer play. For more information visit: www.geothermal-resources.com.au

Gradient Energy Ltd is an unlisted public company dedicated to geothermal exploration and development in Australia. Its portfolio of five high quality projects are focused on existing electricity infrastructure and proximity to large electricity markets. In total the projects cover an area of over 18,300 square kilometres predominantly adjacent to the east coast power infrastructure and the large energy markets of Sydney, Newcastle, Brisbane and Townsville.

While Gradient Energy has several Hot Fractured Rock (HFR) targets of the style being explored by Geodynamics, initial exploration will focus on shallower Hot Sedimentary Aquifer (HSA) and Hot Fractured Aquifer (HFA) targets of the style that already supports electricity generation at Landau & Unterhaching Germany. This type of geothermal system has the potential to support commercial scale power generation in Australia, can be explored more rapidly and cost-effectively, and developed using conventional technologies.

The Clarence Morton licence is centred on the Lismore and Grafton areas, approximately 130km south of Brisbane, Australia's third largest city. The main east coast electricity transmission network passes through the tenement. Historic temperature measurements in petroleum exploration wells within the tenement suggest geothermal gradients up to 53°C/km. Permeable and porous sedimentary sequences within the basin overlie a gravity feature interpreted to be a high-heat producing granite. Clarence Morton potentially hosts both HFR basement and HSA systems capable of power generation and direct heat applications, such as desalination.

The Gloucester tenement is 60km to the north of Newcastle, New South Wales' second largest City. A 132kVA powerline passes through the project. Average geothermal gradients have been calculated from historic, un-equilibrated temperature measurements in petroleum wells of up to 54.5°C/km suggesting temperatures of > 150°C at 3km. Sedimentary stratigraphy of the Gloucester basin overlie a discrete gravity low interpreted to be a high-heat producing granite. Gradient will evaluate the potential for the development of an HSA system within the sedimentary sequence in addition to the HFR potential within the granite.

In May 2008 Gradient Energy was awarded preferred tenderor status for the Innot Hot Springs project ahead of ten other companies. The project is located 10km from the east coast electricity transmission network, midway between Townsville and Cairns, in North Queensland. Hot spring temperatures at surface are up to 74°C with indicated aquifer temperatures of between 144°C and 165°C by fluid chemistry. These temperatures are the hottest indicated aquifer temperatures in Australia outside the Cooper Basin and are within the window for viable electricity generation using conventional geothermal power plant technology. The exploration target at Innot Hot Springs is a pre-existing and structurally developed Hot Fractured Aquifer (HFA).

Gradient's Eromanga licenses lie 30km south of Australia's only operating geothermal power plant at Birdsville. This includes 13 licences (GELs 354–365, 377) over the northern Eromanga Basin in South Australia that were granted in 2008. The Eromanga tenement covers two gravity features interpreted to be hot, heat producing granites (HFR targets) that are overlain by permeable and porous hot aquifers of the Great Artesian basin. Measurements from the Birdsville geothermal plant give temperatures of 98°C at 1.2 km depth. A historic 2,000m deep exploration hole on the eastern edge of the project indicate an un-equilibrated average geothermal gradient of 51°C/km, suggesting a temperature of >150°C at 3km depth.

Gradient's Leigh Creek project (comprising GELAs 448-461 lodged in August 2008) is located north of Torrens Energy's Parachilna inferred resource and 25 kms west of Petrathern's Paralana project in Central South Australia. Measurements from Torrens' initial exploration drilling indicate that heat flow increases to the north and trends into Gradient's tenement application. The geothermal gradient indicated from historic heat flow drilling 20km to the south of the application has been calculated to be 57°C/km. High voltage powerlines occur within 20km of the target areas for both HFR and HFA geothermal systems.

2009 will see further development of the geothermal potential of Gradient Energy's projects with inferred resource calculations using open file data for Clarence Moreton and Eromanga. Gradient Energy is also

looking for potential joint venture partners for some, or all, of its projects. For more information please visit: www.globalorediscovery.com

Granite Power Ltd is an unlisted company exploring for hot rocks in seven geothermal exploration licences (NSW ELs 6360, 7204 & 7205, Victoria GEP 11, Queensland EPG 17 and South Australian GELs 207 and 291). The company's Queensland licence, located near Gladstone, is the only geothermal licence to be granted in Queensland. The company has an additional 3 ELAs in NSW that are under consideration. Granite Power is also developing complementary high efficiency heat exchanger and complementary desalination technology with the University of Newcastle. The University of Newcastle and Granite Power (under its former name – Proactive Energy Development) were the recipients of a \$1.2 million REDI grant for adapting supercritical cycles to geothermal power generation. The Company plans to list on the ASX and/or in the UK. For more information see: www.granitepwr.com

GRD Mines Development Pty Ltd has applied for ELA 3543 near Moruya to the south of Batemans Bay in NSW. For more information contact: adam@hemts.com

Greenearth Energy Limited (ASX Code: GRE) has 3 Geothermal Exploration Permits (GEP 10, 12 and 13) in Victoria covering 18,795 km² over prospective Hot Sedimentary Aquifer and EGS plays in the onshore Gippsland Basin, in the Latrobe Valley and the Geelong areas. Two announcements of inferred geothermal resource estimates have been made by Greenearth, for GEP 10 in December 2008 and GEP 13 in January 2009. The inferred geothermal resource in the GEP 10 area was estimated at 260,000 PJ, covering an area of 462 km² and including both EGS and HSA prospects. The inferred resource estimate for the GEP 13 area was 3,600 PJ, over an area of only 27.5 km². This inferred resource estimate was confined within the area of a 2008 seismic survey which itself covered an area of 29km² – which is only 0.54% of the total GEP 13 area. With reference to this inferred resource estimate, Greenearth estimate that 10MWe could be generated over 30 years by recovering only 2.8% of the stored heat.

The seed capital for Greenearth came from companies that drilled a gas exploration well (within what is now one of Greenearth's GEPs) that flowed 90° C water from 2,200 metres in 2004. Greenearth is one of a few companies now exploring for both petroleum and geothermal resources under separate but coincident licences, in addition to deriving valuable information from four petroleum wells in petroleum permits coincident with its geothermal licences: Hazelwood-1 (PEP 166 - total depth: 2,081m) and Boola Boola-2 (PEP 166 - suspended with a log total depth of 1,715m); Alberton-1 (PEP 158 – total depth: 998m); and Napier High-1 (in an application area for a Petroleum Retention Licence – will be drilled after the grant of the relevant PRL). Greenearth has retained rights to deepen, core and log Boola Boola-2 from depths below 1,715m.

In November 2008, Greenearth concluded a magneto-telluric ground resistivity (MT) survey in the Geelong/Bellarine Peninsula area (In GEP 10) to delineate permeable aquifers below 3 km in its licences. A pilot, 18 month trial of micro earthquake monitoring as an exploration tool will be implemented in 2009 in GEP 13 with a sonde to be placed at 1,430m in Loy Yang -2. This aims to help delineate major fracture zones. Shear wave splitting may also define potential permeable zones. For more information visit: www.greenearthenergy.com.au

Green Rock Energy Ltd (ASX Code; GRK) has 16 GELs in South Australia (7 GELs covering 2,899 km² in proximity to Olympic Dam, 3 GELs covering 3,834 km² in the Cooper Basin and 6 GELs covering 1,938 km²); 15 geothermal licence offers (over 5 areas covering 3,950 km² in the West Australian Perth Basin) and projects in Hungary.

Greenrock plans to commence drilling the first of two deep evaluation wells in proximity to the Olympic Dam mine in the second half of 2009. This will enable water circulation testing and follows hydraulic testing in the Blanche-1 well in 2008. The two new wells will be drilled a few kilometres to the west of Blanche-1, and approximately 15 kms from BHP Billiton's mining operation. An in-place resource estimate compliant with the AGEG-AGEA Geothermal Reporting Code defines 120,000 PJ of heat in place in a 460 km² area of Greenrock's Olympic Dam area GELs. Greenrock have estimated that the production of 3% of that 460 km² target area is enough heat energy to deliver 400 MWe for 30 years

In 2005 Green Rock drilled Blanche-1, its first exploratory diamond geothermal well, to 1,935 m (718 m of sedimentary rocks and 1,216 m of homogenous hot granite) 8 km from the giant Olympic Dam mine and 5 kms from a high voltage power transmission line connected to the national power grid. The target granite is interpreted to persist to depths of 6,000 m over an area of about 400 km² and represents a potential

geothermal resource in excess of 1,000 MWe. Cores and wireline logs from Blanche-1 suggested natural fractures exist. In 2008, Green Rock undertook a mini-fracture stimulation program in Blanche-1 to inform the design of a deep well stimulation. Thirteen zones were tested and the well bore was imaged with a slim-hole acoustic televiewer to enable the analysis of fractures, post fracture stimulation. Greenrock was awarded a \$68,000 South Australian PACE Grant to advance its Blanche project. Greenrock's project in Hungary targets the production of geothermal water for electricity generation and direct heat for industrial and agricultural uses. For more information, visit www.greenrock.com.au

Hot Rock Limited (ASX Code: HRL) holds five Geothermal Exploration Permits (GEPs 6, 7, 8, 9 and 23) in Victoria covering over 27,000 km² in the search for commercial hot wet rock targets. The permits are located proximal to transmission infrastructure and power markets. Prospective water temperatures have been measured in petroleum wells in HRL's Otway Basin GEPs, including: 143°C in Windermere 2 at 3,595 m in GEP 7; and 142°C in Ross Creek 1 at 3,659 m in GEP 8. HRL is planning to develop these hot wet rock resources. HRL plans to drill its first and second deep wells in 2009 at locations northwest of Koroit in GEP-8. The well locations are selected on the basis of information from existing well and reflection seismic data, and a magneto-telluric survey completed by HRL in mid 2008. Pending encouragement from its deep tests, HRL plans to commission a small binary power plant by the end of 2009. The intended pilot plant will use standard, proven technology. HRL has estimated its GEP-8 Koroit project has power generation potential of some 200 MWe. Hot Rock Limited also holds an Exploration Permit (EPG 19) in Queensland, covering an area of 657 km². Hot Rock Limited is also investigating direct use markets for its geothermal energy. For more information visit: www.hotrockltd.com

Icon Energy was offered 2 geothermal licences (EPG 49 & 51) over the highly prospective Cooper Basin region in southwestern of Queensland in May 2008 that formed part of the 3rd geothermal acreage release. For more information visit: www.iconenergy.com

Inferus Resources Pty Ltd is a wholly owned subsidiary of Southern Gold Limited (ASX: SAU). Inferus Resources has four GELs covering 1,990 km² in the eastern Gawler Craton (north of Port Augusta and south of Olympic Dam), within the South Australian Heat Flow Anomaly (SAHFA). Southern Gold took up these GELs after drilling two mineral exploration drill holes to depths of 996 m and 1034 m in which heat flows up to 94.1 mW/m². Sedimentary rocks of the Adelaide Geosyncline provide insulation for trapping heat from the older basement rocks and granite in this play-trend. The company lodged an additional 18 applications in September 2008 that are currently under consideration. For more information visit: www.southerngold.com.au

KUTh Energy Limited (ASX Code: KEN) has geothermal licences covering 14,171 km² in eastern Tasmania and has been named as the preferred tenderer for 2 geothermal tenements in Queensland. In its eastern Tasmania licences, high heat producing granites are a recognised source of heat flows up to 159mW/m² (measured in shallow boreholes). KUTh completed an in-fill gravity survey in 2007 to delineate those prospective high heat producing granites, and that data indicates the target Hot Rocks below 3 to 5km of a sedimentary sequence (including some coal measures). KUTh has since drilled (in 2008) 37 drill holes to depths of 250-300m in a 20km x 20km grid across its eastern Tasmanian tenements. Measurements from these drillholes (to late November 2008) define a 5,000 km² area with heat flows of 92 to 118mW/m². From this, KUTh plans to undertake deep drilling and, ultimately, production drilling. The Tasmanian licences were also applied for to capture 'direct heat' opportunities (industrial heating and drying) in urban and industrial areas. KUTh Energy's strategy is to establish a generation capacity within five years, and to have a commercial Direct Use project within three years. KUTh efforts in Tasmania have been assisted with a \$1.8 million REDI Grant. KUTh's subsidiary companies have applied for geothermal exploration licences in the Pacific Region. For more information visit: www.kuthenergy.com

Mackali, Nejat has been granted EL 7191 near Wanaaring in northwestern NSW in August 2008. For more information contact: nejat1@bigpond.com.au

Monaro Mining has been granted EL 7069 located south of Cooma near Canberra. For more information visit: www.monaromining.com

Near Surface Geothermal Energy is an unlisted company that has one application (GELA 321) in the vicinity of the Leigh Creek Coal Field. This application is under consideration and will be determined in 2009. For more information contact: colin@colinrandall.com.au

New World Energy Solutions is a privately-owned company based in Western Australia. The company currently holds two Geothermal Exploration Licences in South Australia (GEL 353 near north of Renmark and GEL 352 south of Moomba). It plans to aggressively progress exploration on these licences upon grant. While the Company plans to be involved in all major electricity markets in Australia, NWES' focus at this stage is on Western Australia where it has primarily worked for the past 12 months. New World Energy Solutions is reviewing options to list on the ASX in the second half of 2008. For more information, visit: www.newworldenergy.com.au

Origin Energy Ltd (ASX Code: ORG) is a cornerstone investor in Geodynamics. In 2007, Origin purchased a 30% equity position in Geodynamics' South Australian geothermal tenements together with 30% of the Lightning drilling rig. In addition to its 30% share of on-going project expenditure, Origin Energy's forecast expenditure in Geodynamics' Cooper Basin project is expected to be about \$150 million. Origin is a diversified energy company with more than 2,400 PJe of proven plus probable petroleum reserves – of which 90% is gas. Origin is significant producer of coal seam gas in Queensland. Origin owns and operates gas and wind fueled power stations in Australia, and owns 51.4% of Contact Energy – a major electricity generator from geothermal and wind, and a wholesaler and retailer of natural gas and LPG in NZ. For more information see: www.originenergy.com.au

Osiris Energy Ltd is an unlisted company currently exploring for geothermal resources in two Geothermal Exploration Licences in South Australia (GEL223 in the Penola Trough, Otway Basin, and GELs 220, 221 and 281 in the Cooper Basin) and one Exploration Licence Application in New South Wales (ELA3326 in northern NSW) and is actively pursuing additional prospective project areas. The Penola Trough in the southeast South Australian Otway Basin, is the setting of GEL 223, and represents an area of anomalously high heat flows proximal to the National Electricity Market transmission grid with an extensive database of petroleum well and seismic data that define hot wet sedimentary rock targets. Osiris Energy and Origin Energy negotiated a participation agreement under which Osiris Energy will undertake the exploration of the permit and Origin will be offered the option to participate in any capital raisings associated with development of identified geothermal resources in the permit area. Osiris has also signed an agreement with Protavia Pty Ltd to delineate potential to economically supply approximately 2 Petajoules of geothermal heat per annum for drying the final pulp in Protavia's (to be commissioned) paper pulp plant in SE South Australia. On 4 December 2008, a merger with Panax Geothermal was approved. As a result, Osiris is now a 100% subsidiary of Panax Geothermal Ltd. For more information visit: www.osirisenergy.com.au.

Pacific Hydro Pty Ltd is owned by IFM Renewable Energy under the control of Industry Funds Services Pty Ltd. Pacific Hydro holds 18 Geothermal Exploration Licences covering 9,000km² in the South Australian extent of the Mesozoic Eromanga Basin (also called the Great Artesian Basin. Downhole temperature measurements on three re-entered water bores confirm 56.1 °C /km, which suggests temperatures of 133 °C at 2,000m in the Jurassic-aged (Hutton and Poolowanna Formations) hot wet sedimentary rock targets. One slim hole is planned to be drilled in 2009, in the gravity low (deepest, so hottest Jurassic targets) in the eastern section of Pacific Hydro's GEL in a favourable geological setting with benign fluid chemistry, high permeability and lateral continuity. That drilling program will establish potential upside above the 133 °C temperature projected from measurements taken at 1,500m. The current exploration program aims to establish a very large scale hydrothermal resource that could be developed with existing technologies. For more information, visit: www.pacifichydro.com.au

Panax Geothermal Ltd (ASX Code: PAX) acquired **Scopenergy** in October 2007 and merged with **Osiris Energy Ltd** in December 2008. The combined assets now held by Panax include projects in both the South Australian Otway and Cooper Basins. Panax's Limestone Coast Geothermal Project in the South Australian Otway Basin covers 3,127km² in 7 Geothermal Exploration Licences (GELs 170-173, 184, 212 and 223). The Otway Basin in the southeast of South Australia represents an area of anomalously high heat flows proximal to the National Electricity Market transmission grid and with an extensive database of petroleum well and seismic data that define hot wet sedimentary rock targets.

These three sub-basins within the boundaries of Panax's GELs have an estimated generating potential in excess of 1,500 MWe. Scopenergy drilled three slim-hole wells (Heatflow 1A, 3A and 4) in the Limestone Coast Project near Millicent and Beachport in southeast South Australia in 2006. Surveys of those three slimholes added to measurements in 19 petroleum exploration wells and 26 water wells in the vicinity of Panax's tenements. This well data supports interpretations of temperatures of 170°C or higher at depths between 3,300m and 3,700m and 186°C to 200 °C at 4,000m in Lower Cretaceous – Jurassic aged sandstones, and this prospectivity was recognised by the Federal Government through the issue of a \$4 million REDI grant (not consummated). Panax is planning to drill a well in GEL 223 in mid 2009. Scopenergy

was awarded a \$130,000 South Australian PACE grant to advance understanding of the Limestone Coast Geothermal Project area.

Osiris has established an agreement with Protavia Pty Ltd to delineate potential to economically supply approximately 2 Petajoules of geothermal heat per annum for drying the final pulp in Protavia's (to be commissioned) paper pulp plant.

The company conducted an MT survey in 2008 and plans to drill a deep test (Salamander 1) in its Otway Basin Hot Sedimentary Aquifer play in late 2009 with Weatherford Drilling International providing a newly constructed WDI Rig # 828, Le Tourneau "Lightning" Rig. In April 2009, Panax was the successful recipient of a \$7million Geothermal Drilling Fund Grant from the Federal Government. For more information visit: www.panaxgeothermal.com.au

Petratherm Ltd (ASX Code: PTR) is actively involved in projects in Australia, Spain and China, and is a leader in developing conventional, EGS and direct heat energy projects in Spain. Benefiting from a grant associated with the Asia Pacific Partnership on Clean Development and Technology Petratherm entered into an exclusive agreement with four key Chinese geological/geothermal institutions to undertake a co-operative assessment to identify prospective geothermal projects in China.

Petratherm has four geothermal projects in South Australia, which are the Paralana and Callabonna projects in the northern Flinders Range; and the Ferguson Hill and Stuart Shelf projects near Olympic Dam. Petratherm's most advanced Australian project is the Paralana Geothermal Energy JV Project.

Petratherm drilled two wells to establish thermal gradients down to about 600m above exceptionally high heat producing granites in South Australia. Results from both wells were encouraging, with the Callabonna and Paralana sites respectively exhibiting 68 and 81°C/km thermal gradients. In June 2006, the phase-2 drilling program at Paralana was successfully completed with the geothermal test well being extended to 1,807m. Geologic modeling indicates temperatures of 200°C can be expected at a depth of 3600m within insulating sedimentary overlying high heat producing granites at Paralana. Both the granite and the overlying sedimentary strata are expected to be susceptible to fracture stimulation. This concept of targeting geothermal reservoirs within sedimentary cover over high heat producing granites is referred to (by Petratherm) as its Heat Exchanger Within Insulator (HEWI) model. Petratherm has been successful in obtaining a \$5M Renewable Energy Development Initiative (REDI) Grant from the Federal Government to assist in testing the HEWI concept. In addition, the Company has also received two grants worth \$240,000 from the South Australian Government funded PACE scheme to underpin developmental components of the project. This funding is complemented by two significant Joint Ventures for the Paralana Project. In early 2007, Beach Petroleum Ltd entered an agreement with Petratherm to contribute up to \$30M for a 36% interest in the Paralana project. In August 2008, TRUenergy (a wholly owned subsidiary of China Power and Light) has agreed to pay up to \$57M to earn 30% equity in the Paralana Project.

Reflection seismic, magneto-telluric and passive seismic have been integrated to optimise the location of the Paralana 2 deep well. This has provided Petratherm with sufficient confidence to contract with Weatherford Drilling International to import a new 2,000 HP LeTourneau "Lightning" Drilling Rig. Petratherm expects to spud the Paralana 2 well in May 2009 and drill up to 4 kms deep. In April 2009, the company was the successful recipient of a \$7million Geothermal Drilling Fund Grant from the Federal Government.

Given success in its first deep well, Petratherm plans to spud Paralana 3 well in early 2010. The next phase will be to use one well as an injector and a second well as a producer as a sub-surface heat exchange system. Under the terms of the Paralana Joint Venture agreement, Beach Petroleum will take the lead role in the drilling operations required to create the underground heat exchanger. It is anticipated that the technical challenges to achieve long term heat extraction are lower within the sedimentary layer thereby potentially reducing project risks. The drilling and circulation work will be a precursor to constructing an electricity generation plant (of around 7.5MW) to meet the local power needs at Heathgate Resource's Beverley Uranium Mine, 10kms away. This plan is the subject of a Memorandum of Understanding between Petratherm and Heathgate Resources who own the mine. The Company's longer term development goal is to supply 520MWe into the national electricity grid.

In late November 2008, Petratherm gained title to a prospective Hot Sedimentary Aquifer play in a 9,000km² Geothermal Exploration Permit (GEP - 24) in Victoria's East Gippsland Basin.

In February 2007, Petratherm began the process of securing geothermal energy sites in Spain. The strategic entry into Spain has provided a first mover advantage for Petratherm which, to date, has eight projects on the mainland and in the Canary Islands spanning conventional geothermal, EGS and direct heating targets. Most advanced of the Spanish projects is the Geo-Madrid 8 MW District Heating project. Construction of the Geo-Madrid DH project could commence by November 2009 with geothermal heat production, and production to markets by July 2010. On the volcanic island of Tenerife, Petratherm is exploring for high temperature, conventional geothermal resources with the view of supplying 50MWe.

Petratherm's agreement with Chinese Government institutions is focused on securing tenure over high value geothermal projects in China. To date, work has focused on analyzing the various datasets provided by the Chinese institutions to identify projects develop project joint ventures. For more information, visit www.petratherm.com.au

Red Hot Rocks Pty Ltd (RHR) is the geothermal subsidiary of Mobius Resources Australia Pty Ltd. RHR was formed in 2006 to examine potential commercial geothermal projects. The company participated in the 2006 applications for Geothermal Tenements in Queensland and was offered three of the available areas. Finalisation of these offers is pending resolution of Native Title issues.

RHR policy is to seek involvement in the industry either as operator of specific projects or in joint venture with partners. Further information is available from Domain Capital at Level 16, 379 Collins Street, Melbourne. Vic 3000

Stuart Petroleum is a petroleum exploration and production company listed on the Australian Stock Exchange (ASX code: STU). The company has 12 licence (GELs 378–389) and 14 licence applications (GELAs 393–406) over petroleum producing areas of the Cooper and Eromanga Basins in South Australia. These applications will be determined in 2009. For information, visit: www.stuartpetroleum.com.au/

Tata Power, India's largest industrial conglomerate, has bought an 11.4% stake in Geodynamics at a cost of \$37 million. This strategic partnership not only strengthens Tata Power's renewable portfolio but also creates opportunities to get a foothold in the growing renewable energy market in Australia. For more information visit: www.tatapower.com

Teck Cominco Australia Pty Ltd is a subsidiary of **Teck Cominco** (NYSE Code: TCK and TSX Code: TCK.A and TCK.B) and has been offered South Australian GELs 294 and 295 covering 994 km² in the eastern Gawler Craton in proximity to Teck Cominco's Carrapateena Cu-Au discovery. Teck Cominco's exploration for geothermal resources has been implemented in parallel with its exploration and appraisal of the Carrapateena deposit discovery with temperature data collected in three Carrapateena drill holes. For more information see visit: www.teckcominco.com

Terra Estus Resources Pty Ltd was offered 3 geothermal licences near Karumba, Queensland in May 2008. For more information contact: wolfgang@petroventures.com.au

Thermal Resources Pty Ltd has been offered 3 geothermal licences in the southern Perth Basin in early 2009. For more information contact: spryt@rpsgroup.com.au

Torrens Energy Ltd (ASX Code; TEY) has 21 geothermal licences and five licence applications spread across three areas covering 9,500 km² in South Australia. These three areas are located: (1) East of Lake Torrens and north of Port Augusta (GELs 230-235, 278, 285 and 407-410 totalling around 6,000 km²); (2) The northern Adelaide Plains (GELs 227-229 and 263 totalling 1,963 km²); and (3) Port Adelaide (GELs 226, 260-262 and GELAs 266 and 293 over a total of 1,868 km²). The company also has two geothermal permits (GEPs) in Victoria. All of Torrens' licence and licence application areas are located close to the National Electricity Market transmission grid and markets. Torrens Energy drilled seven wells to depths ranging 501m to 760m in the northern extent of its licences east of Lake Torrens, in its Parachilna Play in 2007 - 2008. Determined heat flows ranged between 70–120 mW/m² – with the results calibrating an inferred in place resource for the Parachilna Play of 780,000PJ in August 2008.

Torrens next plans to record 2D seismic and magneto-telluric surveys in its Parachilla Play area and drill at least one shallow well (TKDH-1A) in the central extent of its East of Lake Torrens licences, south of Parachilla and north of Port Augusta, and at least one shallow well (Raitaro – 1) in its Port Adelaide play area in 2009. The information gained from wells to < 1km will be used to locate wells to intermediate depths (to <2km) in the Parachilla, north of Port Augusta and Port Adelaide areas. The aim of shallow (to < 2 km)

exploration drilling is to delineate heat flow trends as a precedent to locating deep proof-of-concept wells to pre-heat feed-waters for coal and gas fired power stations and desalination. Torrens was awarded a \$3 million REDI grant (in 2007) to develop, demonstrate and refine a 3D modelling method for the prediction of Hot Rock plays, and also a \$100,000 South Australian PACE grant (in 2006) for heat flow exploration in the Adelaide Geosyncline.

In 2008, Torrens Energy entered into an agreement with Australian Gas & Light (ASX Code: AGL) to jointly develop geothermal resources for generation into the National Electricity Market (NEM). This agreement resulted in AGL: owning 10% of Torrens shares; having a first right of refusal to earn 50% of any Torrens geothermal project by funding the completion of a deep confirmation well, and act as a joint venture to find new geothermal opportunities through mid 2012. Torrens continued its delineation of heat flow with shallow drilling around Port Augusta and on the Adelaide Plains, as well as 2D reflection seismic and magnetotelluric surveys during 2008. The company has continued shallow drilling in its Adelaide and Torrens projects during early 2009 and is currently planning a deep (~1800 metres) well in the Arrowie Basin. For more information see: www.torrenergy.com

Tri-Star Energy Company is a privately held company with petroleum production and exploration projects in Queensland, and its primary focus is the development of coal seam methane. Tri-Star has two geothermal licences west of Marree in the western Great Artesian Basin of South Australia (GELs 264 and 265 covering 994 km²) and two geothermal licences in the Cooper Basin of northeast South Australia (GELs 309 and 310 covering 955 km²). For further information see: www.tri-starpetroleum.com.au

TRU Energy has taken an equity stake in Petratherm's Paralana Project. TRUenergy (a wholly owned subsidiary of China Power and Light) has agreed to pay up to \$57M to earn 30% equity in the Paralana Project. For more information contact: www.truenergy.com.au

University of Western Australia has entered into a joint venture with Green Rock Energy (Operator) who collectively were the successful applicants for a geothermal licence in the Perth Basin. The JV plans to harness the geothermal energy below UWA's Crawley grounds to power the campus' air-conditioning, and heat its swimming pools. For more information contact: klaus.regenauer-lieb@csiro.au

Waterflea Pty Ltd is a Newcastle based geothermal exploration company that holds applied for EL 6740 located about 12 km southeast of the township of Awaba, near Lake Macquarie in New South Wales. Postal address: PO Box 683, Newcastle, NSW 2300.

Service providers

ACIL Tasman is an Australian consultancy providing economic, policy and strategic analysis and advice to clients in business and government, and internationally. For more information, visit: www.aciltasman.com.au/

Balance Energy Pty Ltd is an engineering services provider. Founded in 2002, Balance Energy has been identifying and implementing significant energy efficiency measures on the sites of some of Australia's leading companies. Recently, Balance Energy purchased a 4 MW, gas turbine driven cogeneration plant (producing high voltage electricity and steam), it is currently developing for deployment on a new site. Balance Energy sees its experience in energy flow, heat transfer, fluid mechanics, thermodynamics, HV power generation and practical application as an ideal fit as an engineering services provider to operators in the developing field of geothermal energy. Balance Energy is based in Adelaide, with an office in Melbourne. For more information see www.balanceenergy.com.au

Earthinsite are an internet based provider of earth and environmental data and associated products such as thematic maps. For more information see www.earthinsite.com

Econnect Australia is a leading internationally recognised innovator of solutions for the electrical grid integration of renewable and sustainable energy for more than 12 years. The company's knowledge and understanding of specific networks and diverse experience has been gained from developments in over 20 countries including Australia, New Zealand, United Kingdom, China and Japan. Econnect Australia aim to maximise the uptake of renewable energy technologies through the application of innovative concepts to both the design of grid connections and to the operation of existing networks. They undertake to provide clients with specialist electrical services at all stages in their project cycles from the initial grid connection assessment through design and construction to commissioning. For more information visit, www.econnect.com

Electranet is a regulated Transmission Network Service Provider (TNSP) in the National Electricity Market (NEM). Their role is to provide the high voltage large capacity network for generators to transport their electricity to end users. electranet.com.au

Energycore are a geothermal heating and cooling company supplying a range of heating and cooling services for domestic, commercial or industrial use. For more information see www.energycore.com.au

FrOG Tech Pty Ltd – From Oil to Groundwater - is an Australian-based natural resources consultancy with worldwide experience in the petroleum, minerals, coal and groundwater industries. They supply high quality, cost-effective geological services to significantly reduce the costs and risks of exploration and development. Their services and global expertise are now offered to the geothermal industry – including Hot Wet Rock and Hot Dry Rock projects. FrOG Tech specializes in basin scale studies supported by integrated ArcGIS products that include schematic models for basement composition, prediction of subsurface heat sources, geothermal plays, estimates of depth for the main targets and the heat in-place, integrated well databases, mapping of potential fluid reservoirs and their rock properties and insulating sedimentary cover using regional seismic and well datasets, predictions of areas with enhanced fracturing, fluid focusing, and identification of exploration risks. For more information visit: www.frogtech.com.au

Geothermal Advisory Pty Ltd provides corporate, project and technical services to the geothermal industry in Australia and offshore. For more information see www.geothermaladvisory.com

GHD is an international professional consulting services company of architects, engineers, drafters, planners, scientists, management consultants and economists. GHD serves the global markets of Infrastructure, Mining & Industry, Defence, Property & Buildings and the Environment. For more information see www.ghd.com.au

Global Ore Discovery provides integrated geoscience consulting solutions to the minerals, energy and water industries worldwide. Our senior consultants have a track record of providing innovative and cost effective exploration outcomes to our clients. We offer leading edge generative skills for geothermal portfolio building, detailed geological/spectral alteration modelling to define rock properties/reservoir targets in conventional and EGS systems and a full range of project management skills. We provide integrated GIS interpretations incorporating our specialised remote sensing products including

- Thermal anomaly mapping for concealed and expressed geothermal systems
- Hyper and multispectral alteration mapping for vectoring in hydrothermal systems,
- Radar to map active structures and subsidence
- High resolution colour base imagery and DEMs for infrastructure/risk planning

For more information please visit: www.globalorediscovery.com

Halliburton was founded in 1919, and is one of the world's largest providers of products and services to the Energy Industry. The Company adds value through the entire lifecycle of Geothermal reservoirs and provides and integrates products and services, starting with exploration and development, moving through production, operations, maintenance and abandonment. www.halliburton.com

Hot Dry Rocks Pty Ltd (HDRPL) is Australia's leading geothermal exploration, research and development consultancy specialising in developing tools and procedures for locating and defining geothermal resources suitable to exploit for energy generation. The company combines expertise in crustal heat flow measurement and modelling, engineered geothermal systems research and development, and petroleum and mineral exploration. With offices in Melbourne and Hobart and a staff of 12 geoscientists, HDRPL offers services and advice covering initial ground selection; exploration and resource assessment; drilling, reservoir stimulation and appraisal; physical rock property measurements; economic resource modelling; to full scale development. In addition, HDRPL has an active internal R&D program to develop hardware and software tools and procedures to facilitate the rapid uptake of geothermal energy. For more information see www.hotdryrocks.com

Intrepid Geophysics Ltd is a professional consulting group providing Consulting and Interpretation Services for exploration projects involving base and precious metals, precious stones, petroleum, and ground water. Intrepid Geophysics are currently developing an accessible method for the rapid calculation of spatial temperature variation directly from a 3D geology model. The ability to calculate 3D temperature for a modelled part of the crust is key to both reducing geological risk and assessing recoverable temperature resources. This work will also contribute accurate modelled temperature data to an expanding database managed by Geoscience Australia. For more information see www.intrepid-geophysics.com

KPMG is a professional services firm, offering a range of audit, tax and advisory services. For more information visit: www.kpmg.com.au

Senergy is an independently-owned energy consultancy, with its roots originally in the oil and gas industry in the UK. The company was formed in 2005 when the subsurface consultancy, RML (Reservoir Management Ltd.) merged with Xcavo, a well engineering and operations consultancy. Since that date the group has grown rapidly through a combination of organic growth and acquisition. The group now has 15 offices in eight different countries, including offices in Perth and Melbourne, Australia and Wellington, New Zealand. The staff base is currently just under 400 people (approximately three-quarters staff, one-quarter associates), and the group is expected to turnover in the region of AU\$120 million in the current financial year.

Although the company's roots lie in the oil and gas industry, Senergy has been increasing its activities in the alternative energy market, providing intellectual and project management input to a range of energy projects. Skills within Senergy that are particularly relevant to the geothermal industry include, geomechanics, well engineering and project management, advanced drilling techniques including underbalance and pressure controlled drilling. In 2008 Senergy acquired Econnect, a company specializing in the connection of renewable energy projects to the grid (see separate entry). Econnect forms an important part of Senergy Alternatives, and has extensive experience of connecting renewable energy projects to the grid, in Australia and New Zealand. For more information visit: www.senergyltd.com

Sinclair Knight Merz (SKM) is an engineering, sciences and project delivery firm. The company is a fully integrated multi-discipline consultancy recognised for engineering and scientific consulting to the geothermal sector. SKM are able progress a geothermal development from exploration through to project development and long-term resource management. For more information, visit: www.skmconsulting.com

SMEC is a large, multi-disciplined engineering consultancy with over three decades of experience in planning, design, construction, procurement, operation and maintenance in the power industry. Our engineering expertise in geothermal power generation extends from the ground up, including environmental, geotechnical, civil, structural, mechanical and electrical capabilities. Examples of SMECs ability to deliver large complex design projects can be seen in the Lihir Geothermal Power projects, in Papua New Guinea. For these projects SMEC was responsible for the engineering design, procurement and construction management along with commissioning of three single flash hydrothermal power plants with a total installed capacity of 56MW. SMECs capabilities in power plant engineering extend beyond geothermal, with experience in design of plants ranging from wind, biomass and biogas, cogeneration, combined cycle, waste heat recovery and solar thermal systems. This broad range of experience allows SMEC to provide tailored solutions to meet a variety of Client needs.

Specific services offered by SMEC include:

- Project development and feasibility studies
- Process design and technology selection
- Detailed design, including 2D and 3D drafting
- Piping flexibility analysis
- Specification and contract preparation
- Procurement
- Project management
- Construction supervision
- Commissioning

For further information, visit www.smeccom.au.

Strategic Chemistry is a global network of energy industry professionals providing a range of advice, reviews and problem solving capabilities to the petroleum and geothermal industries. They can provide specific advice in corrosion and mineral scale modelling and material selection. For more information see www.strategic-chemistry.com

3D-GEO.com offer geothermal modelling and thermal maturity models for a range of geothermal systems. From depth seismic, to geology, to MT, the correct application of reservoir modelling and analysis techniques is critical to understanding past, current and future geothermal potential and performance. 3D-GEO's unique approach incorporates traditional thermal modelling with recent technical advances in heat flow (conductivity and advection), facies mapping , porosity, permeability and fracture modelling. This allows for a complete assessment of the geothermal potential in any given study area.

Over the last 10 years 3D GEO has been working throughout SE Asia on fields such as the Gunung Salak Geothermal Field in Indonesia. The last 24 months 3D GEO has been working in all states of Australia to develop better understandings of Australia's potential for geothermal. In the years to come 3D GEO is extending into developing models to better understand the conductivity, advectivity and convectivity of Australia's basins. For more information visit: www.3D-Geo.com

VEMTEC is an independent and integrated design and project management business, specialising in electrical distribution design. For more information see www.vemco.com.au

Worley Parsons is a global provider of technical, project and operational support services to the energy, resource and complex process industries. For more information visit: www.worleyparsons.com