

Hot Rock Limited

(including an update on Chile and Peru)

presented by:

Peter Barnett
Managing Director



Disclaimer

Whilst this document and presentation is based on the information from sources which are considered reliable, Hot Rock Limited, its directors, employees and consultants do not represent, warrant or guarantee, that the information in this document and presentation is complete or accurate.

To the maximum extent permitted by law, Hot Rock Limited disclaims any responsibility to inform any recipient of this document and presentation of any matter that subsequently comes to its notice , which may affect any of the information contained in this document and presentation.

The information in this Statement that relates to Geothermal Resources has been compiled by Peter Barnett, an employee of Hot Rock Limited. Mr Barnett has over 30 years' experience in the determination of crustal temperatures and stored heat for the style relevant to the style of geothermal play outlined in this release. He is a member of the Geothermal Resources Council and the International Geothermal Association, a current board member of the New Zealand Geothermal Association, a past board member of the Auckland University Geothermal Institute Board of Studies and a current member of the Economics Sub Committee of the Australian Geothermal Association. Mr Barnett qualifies as a Competent Person as defined by the Australian Code of Reporting of Exploration Results, Geothermal Resources and Geothermal Reserves (2010 2nd Edition). Mr Barnett consents to the public release of this report in the form and context in which it appears. Neither Mr Barnett nor Hot Rock Limited takes any responsibility for selective quotation of this Statement or if quotations are made out of context.

- All amounts are in American Dollars (USD) unless otherwise stated.



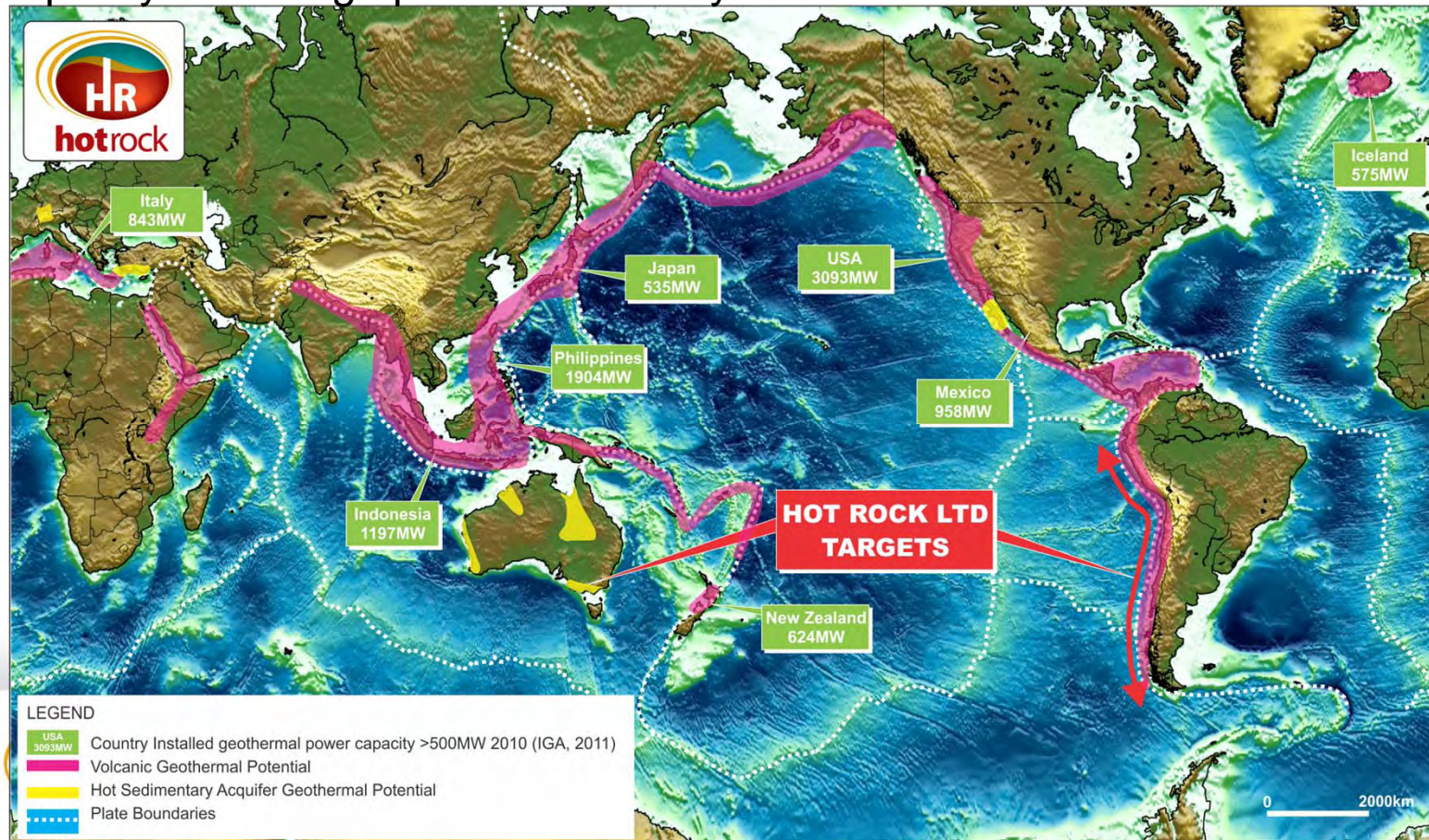
HRL Business model

- Hot Rock is a public company, listed in 2007 on the Australian Stock Exchange (ASX code HRL)
- HRL mission is to pursue exploration and development of geothermal resources in jurisdictions that :
 - Have quality conventional geothermal resources
 - Provide a secure commercial environment for exploration, development and generation
 - Have ready access to power markets with a growing demand for electricity
 - Place value on electricity from renewable sources
- The company blends:
 - Australia commercial expertise in large scale development of natural resources
 - New Zealand expertise in geothermal technology
- Is able to raise funds from capital markets in Australia and elsewhere
- Is able to joint venture with larger energy companies for advancing projects to commercial scale beyond feasibility stage in the exploration and resource proving process



HRL geothermal resource targets

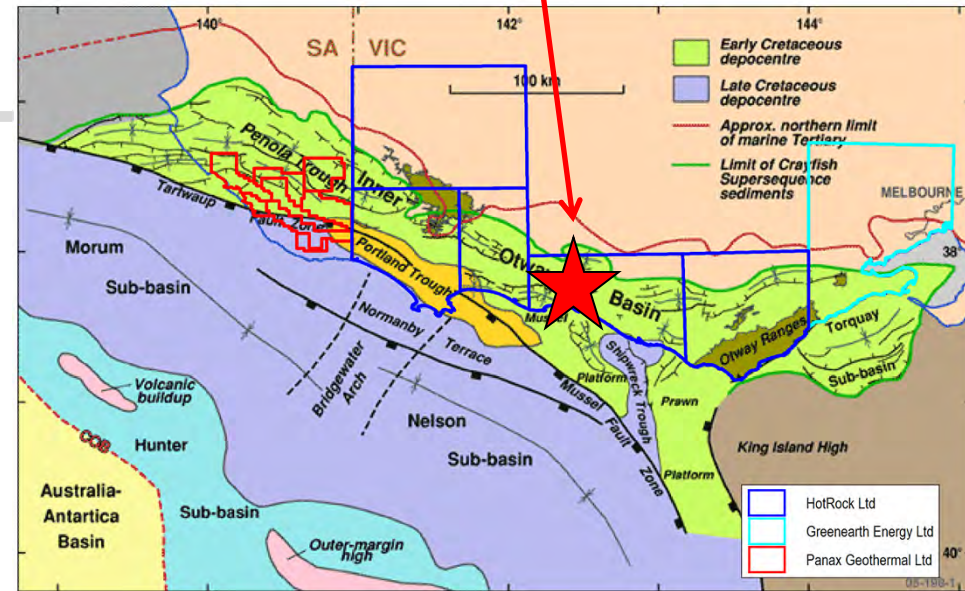
- Targeting conventional, geothermal resources:
 - Volcanic systems at Pacific Rim plate margins
 - Hot Sedimentary aquifer targets in Australia
- Much lower risk and cost than 'unconventional' plays, due to large global installed capacity and long operational history



Koroit HSA flagship project

HSA resources in Otway Basin, Victoria

- Numerous sedimentary “depo centres” with thick (1 to 3+km) accumulations of quartz sandstones occur throughout the onshore Otway Basin
- These rocks are water saturated and subject to elevated heat flow through thinned crust (from rifting) with temperature gradients of 40 to 45°C/km
- This setting yields hot water at 125° C to 185°C, within porous / fractured sandstones, between 2500 and 4000m
- Represents a large, regional, medium grade geothermal resource of the Hot Sedimentary Aquifer (HSA) type, with:
 - some 550,000 PJ in-place heat
 - power generation potential of some 3500MWe* for 30 years
- HRL flagship HSA resource at Koroit now drill ready:
 - 390km³ / 67,000PJ in-place heat, with power generation potential of 450MWe*



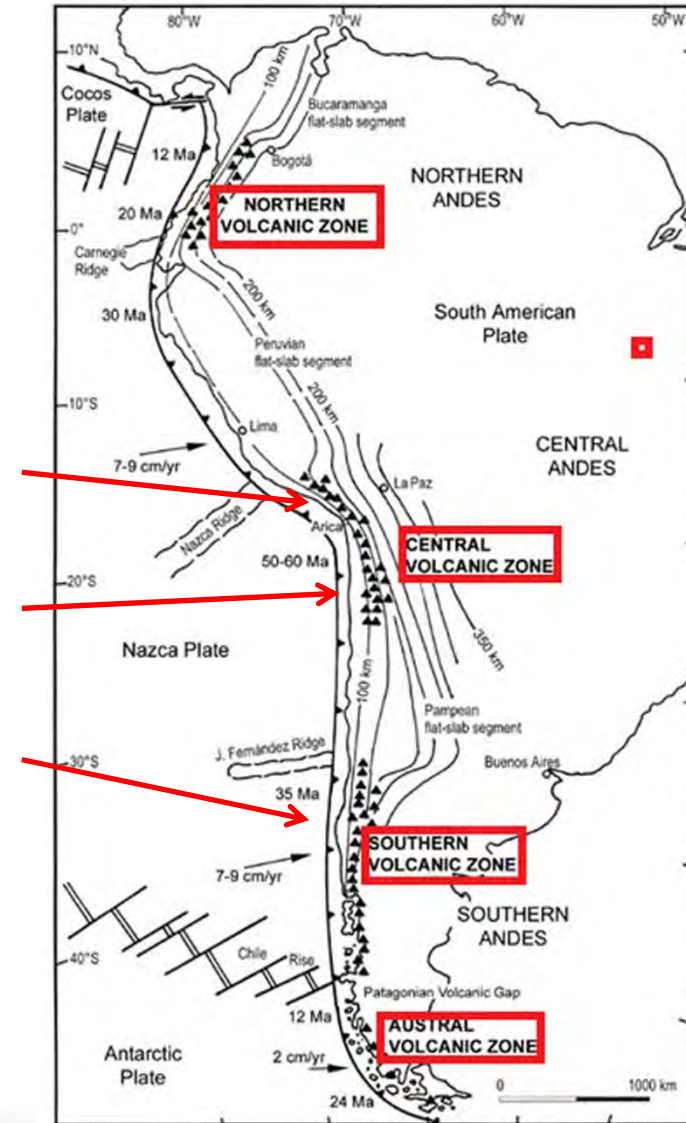
Trough in Otway Basin	Tenement	Developer	HSA Inferred Resource PJ	HSA Indicated Resource PJ	HSA Measured Resource PJ	HSA Estimated Total PJ
Tantanoola	GEP-6	HRL	77,000	1,700		78,700
Koroit	GEP-8	HRL	59,000	7,600		66,600
Penola	GEP-23	HRL	29,000	5,000		34,000
Anglesea	GEP10	Green Earth	40,000			40,000
Tantanoola	GEL-170, 171, 172	Panax	130,000			130,000
Rendelsham	GEL-170, 184, 212	Panax	17,000			17,000
Rivoli St Clair	GEL-173	Panax	53,000			53,000
Penola	GEL-223	Panax	89,000	32,000	11,000	132,000
Totals			494,000	46,300	11,000	551,300



* Based on: $T_{cut-off}$ of 120°C, recovery factor 5% , thermal to electrical conversion efficiency 12%

Chile /Peru - High quality geothermal prospects

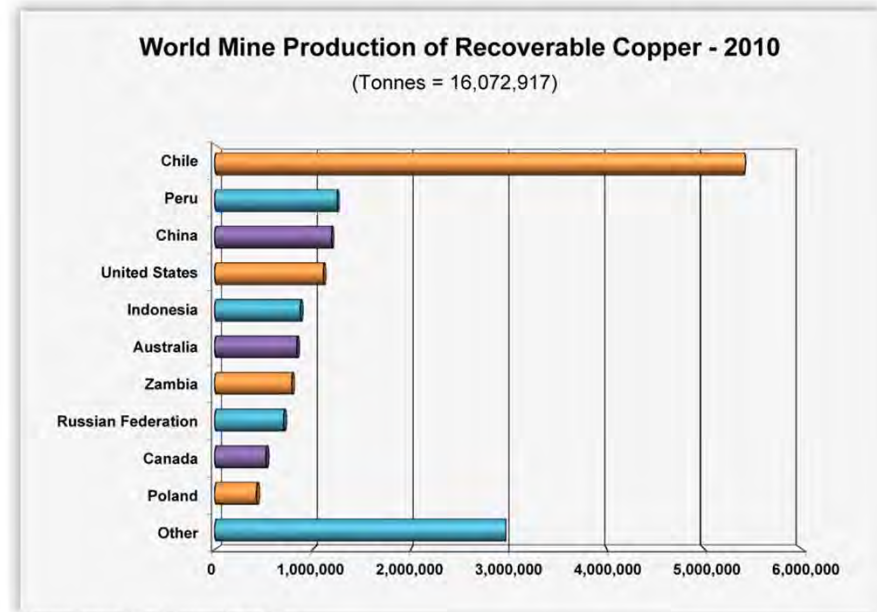
- More than 200 Pleistocene & Holocene volcanoes (of which 100 are in Chile) located along western margin of South America, in four segments
- Associated with subduction of oceanic Nazca plate below the continental lithosphere of Central Andes
- High geothermal development potential in Peru and Chile within the Central and Southern Volcanic Zone segments
 - **Southern Peru:** Six geothermal regions identified with the major one in central Andes of SE Peru where 300 geothermal areas with a wide range of surface activity occur
 - **Northern Chile:** approximately 90 geothermal areas, largely of chloride type, frequently solfataric, located along the high Andes and Altiplano
 - **Southern Chile:** more than 200 sites with acidic-sulfate, bicarbonate and chloride type springs, restricted to 4° volcanics in the Andean Cordillera
- Geothermal potential of Chile alone estimated to be in the order of 16,000 Mwe for 50 years*



* Lahsen, WGC - 2010

Chile / Peru – strong and rapidly developing economies

- Chile is ranked as South America's most stable and prosperous economy, leading Latin America in human development, competitiveness, income per capita, globalization, and economic freedom.
- GDP 2011 to date is 8.4%.
- Peru is currently one of the world's fastest-growing economies owing to stable politics and an economic boom that has gradually developed over the past decade.
- GDP 2011 to date is 7%
- Key economic drivers in both countries are very large copper mining industries:
 - Chile is the largest producer of copper in the world and Santiago has recently become the de facto mining capital of the world
 - Peru is rapidly following Chile's economic development path anchored on large scale mining developments



Source: International Copper Study Group

Chile Power Sector

- ~60% of generated energy from hydro, 20% gas and 20% coal
- Increased power costs due to recent gas shortages & ongoing power shortages
- Large existing and forward power market (15,000 MWe and needs to be doubled in next 10 years)
- Development of large hydro and coal plants in pipeline but facing public opposition
- Strong support for renewables of which geothermal viewed increasingly as a serious contender for large scale base load power generation



- Good opportunities for geothermal to provide both on-grid and off-grid power
- Robust geothermal law in place (2000)
- Additional support for geothermal sector from “Renewable Energy Law of 2008” - calls for at least 5% of the energy produced by the medium and large generator sector to be from non conventional renewable energy sources, increasing to 10% by 2024

Peru Power Sector

- Generation capacity of 7,200 MWe with mix similar to Chile – 60% hydro, 40% thermal
- Forward demand for a further 4,500MWe of generation by 2017
 - \$56 billion to be spent on mining developments over next decade
- Future renewable energy development capacities are estimated at:
 - Hydro: 59 GWe
 - Wind: 22 GWe
 - Geothermal: 3GWe
- In spite of large gas reserves and the very large hydro potential, there is strong support for non-hydro renewable power through the Renewable Energy Law 1002 (2008), which offers:
 - 20 year, inflation indexed, “take or pay” power sales contracts awarded through bidding against “same type” renewable projects
 - (e.g. recent 80MW PV Solar project awarded 20yr contract at US\$224/MWh)
 - priority connection for renewables to grid



Huge interest in geothermal development opportunities in Chile and Peru – both domestic and international

Chile

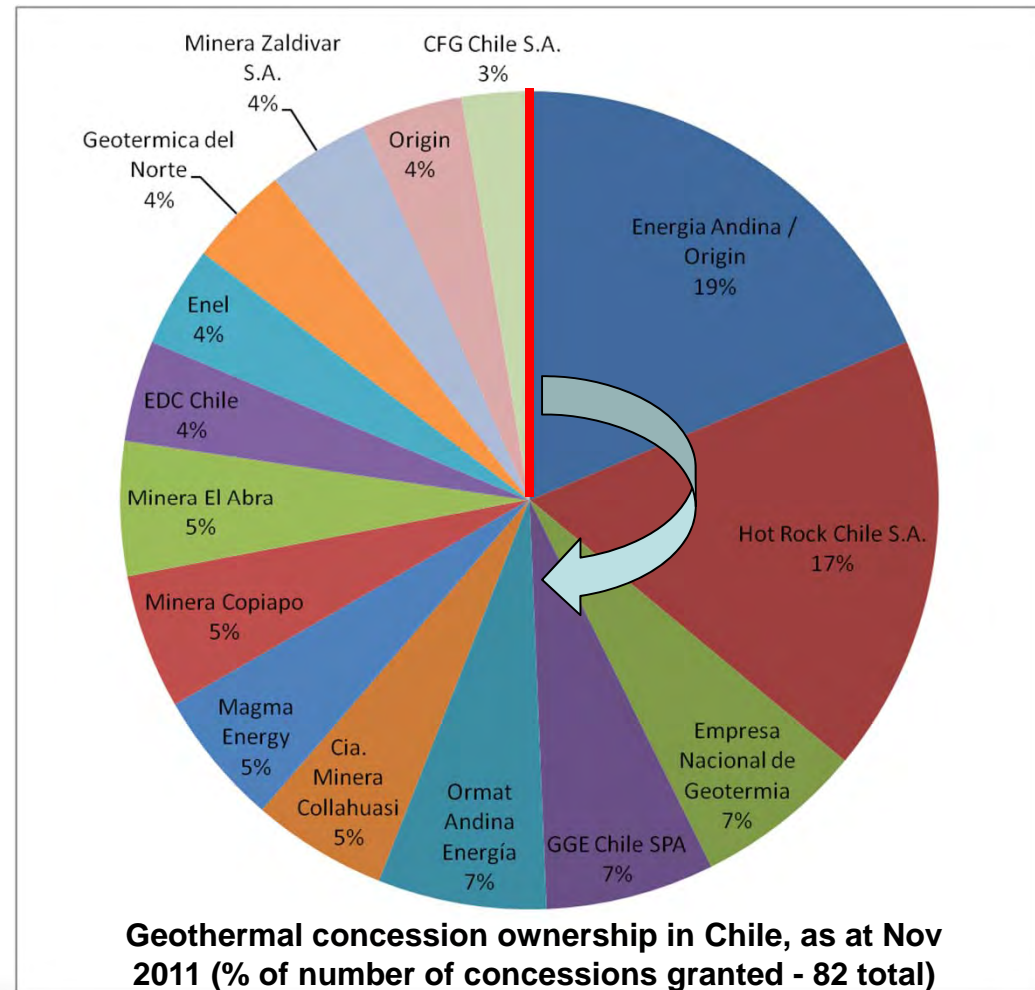
- 49 geothermal concessions granted through direct application with 20 still under process
- 33 concessions awarded through two rounds of competitive bidding, in 2009 and 2010, raising \$106m + \$251m in committed work programs
- Hot Rock holding 13 concessions in 7 projects

Peru

- 8 projects awarded to 4 companies
- HRL holding 3 large projects with granting of a further 2 imminent

Hot Rock Limited

- Now the largest geothermal concession holder in Sth America



Current geothermal exploration and development activities in Chile and Peru

Peru

- First tenements awarded only in January 2011
- Land access and surface exploration in progress by 4 companies

Chile

- HRL - surface exploration completed at 2 of 7 projects and resource assessments published
- Drilling undertaken or in progress by:
 - ENEL (Apacheta)
 - GGE (Tolhuaca)
 - Energia Andina (Tinguiririca & Puchildiza)
 - Magma (Laguna del Maule)
 - Collahuasi Mine (Volcan Olca)
- Firm plans published by ENEL for commissioning a 50 MWe first stage power plant at Apacheta in 2014



Industry Status – significant advances being made

- A geothermal association of Chile has been formed, ACHEGEO, and will hold its first annual geothermal conference next week
- Major showing by Chilean geothermal community at recent 2011 GRC conference in San Diego – full morning session on Chile projects
- Chile government is formulating a drilling risk insurance scheme giving 50% cover on up to three exploration well failures
- CEGA - Andean Geothermal Centre of Excellence – has been recently established at University of Chile with research interests in magmatic processes / heat-water-rock interaction / fluid geochemistry / structural controls / geophysics / reservoir and surface processes
- Consultant and contractors taking up strategic positions in Chile in anticipation of a major geothermal industry developing
- An informal working geothermal association has been formed in Peru by HRL and others
- JICA have just completed a nation wide inventory of geothermal resources in Peru



Outlook

Hot Rock

- Well established in both Chile and Peru
- Benefiting from first mover advantage in acquiring quality concessions ahead of the competition
- Moving forward this summer with detailed geoscience and MT surveys at a further two projects in each of Chile and Peru
- Expect to commence exploration drilling in summer of 2012/13

Chile Geothermal Industry

- High level of international interest in the emerging Chile geothermal industry which is rapidly growing in capacity and stature
- Real exploration drilling successes have been achieved over past 2 years at each of 5 prospects
- These successes are propelling the sector forward with a realistic likely commissioning date for geothermal generation in Chile of 2014
- Excellent long term opportunities for NZ consultancies and contractors



www.hotrockltd.com

