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The information in this presentation that relates to Exploration Results, is based on information compiled by Peter Reid, who appears on the Register of Practicing Geothermal Professionals maintained by the Australian Geothermal Energy Group Incorporated at the time of the publication of this report. Peter Reid is a full time employee of the Company. Peter Reid has sufficient experience which is relevant to the style and type of geothermal play under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the Second Edition (2010) of the Australian Code for Reporting Exploration Results, Geothermal Resources and Geothermal Reserves. Peter Reid has consented in writing to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.
Paralana Geothermal Project and The Clean Energy Precinct

Map showing locations such as Moomba, WIND, SOLAR, NATURAL GAS, GEOTHERMAL, Broken Hill, Olympic Dam, Beverley, Carapateena, Prominent Hill, Port Augusta, and Adelaide. The map indicates the proximity of these locations with transmission lines and gas pipelines.
Drilled Paralana 2 to depth 4003m (G.L. A.H.D.) ✓

Confirmed optimum bottom hole temperatures ~ 190°C at 4000m ✓

High pressure geothermal brines intersected and natural fractures intersected from 3680m – may assist flows ✓

Fracture stimulation produced a large complex fracture cloud extending (1100m) ✓

Initial injection rates of 27 l/sec with scope to increase to commercial rate ✓

Successful flow test produced 1.3 million litres due to natural overpressure ✓
Paralana Joint Venture: Petratherm 79%, Beach Energy 21%. If remaining staged equity investments are met, Beach Energy may earn up to 36%.

- Initial stimulated rock volume = 5.4 MWe power potential for 30 years
- Paralana Resource at the 3500–4000 metre depth interval is estimated a 9,300 PJ\textsubscript{th} which is sufficient to generate 1,300 MWe of electrical power for 30 years

The information on this slide that relates to Geothermal Resources is an extract from a report compiled by Dr Graeme Beardsmore, who appears on the Register of Practicing Geothermal Professionals maintained by the Australian Geothermal Energy Group Incorporated at the time of the publication of this Slide. Dr Beardsmore is employed by Hot Dry Rocks Pty Ltd, an independent consulting group that provides professional services to Petratherm Ltd. Dr Beardsmore has sufficient experience which is relevant to the style and type of geothermal play under consideration and to the activity which he/she is undertaking to qualify as a Competent Person as defined in the Second Edition (2010) of the ‘Australian Code for Reporting Exploration Results, Geothermal Resources and Geothermal Reserves’. Dr Beardsmore has consented in writing to the inclusion on the slide of the matters based on his information in the form and context in which they appear.
Extraction model for a pumped EGS well

Sanyal (Geothermex) et. al. 2007* independent expert paper reports:

- Standard industry pump operating temperature limit is \( \sim 190^\circ\text{C} \)
- Max MW per well \( \sim 7.3\text{MW} \) (unless pumps improve on setting depth and pump rate)

Paralana Extraction Model:

- Targeting optimal temperature parameters to maximize output of a pumped EGS well
- Temperatures of \( 190^\circ\text{C} \) confirmed at 4,000m
- JV decision not to drill deeper than 4km based on cost/depth trade-off – validated
- Remaining uncertainty to test is flow rate which is measured to Productivity Index (PI)
- Paralana target flow is 75 litres/sec or PI \( \sim 4 \) achieving a net capacity of 3.5 MW

Paralana – Next Stage Project Funding

- Next stage of works budgeted at around $26 million
  - Covers drilling Paralana 3, fracture stimulation and demonstration of commercial flows. This work is the immediate precursor to building/connecting a 3.5 MW pilot plant ($15.9 million)

- The Paralana project has been granted $13 million under the Australian Renewable Energy Agency (ARENA) $126 million Emerging Renewable Program (ERP) to fund half of the total costs of the project

- Beach Energy – Paralana JV partner- have 21% project equity share

- Petratherm – project equity share is 79% - with ERP grant, PTR funding need for next stage of works is around $10 million.

- Petratherm could receive up to $7.2 million in cash rebates* for eligible expenditures under the R&D Tax Incentive scheme (* post eligible spend & assessment)

- Net cost to Petratherm to achieve Demonstration of Commercial Flows (DCF) potentially around $3 million. If DCF is successful, then this will unlock the Renewable Energy Demonstration Grant to fund one third of pilot plant and enable project annual revenues of around $4.5 million
CLEAN ENERGY FOR FUTURE GENERATIONS