



ASX Announcement

31 January 2025

Quarterly Activities Report For the Quarter ending 31 December 2024

Earth's Energy Limited (ASX: **EE1**) (**EE1**, **Earth's Energy** or the **Company**) is pleased to present its Quarterly Activities Report for the 3 months ending 31 December 2024 (**Period** or **Quarter**).

HIGHLIGHTS

- **Paralana Project Highlights**
 - *Technical and Economic Feasibility Study (**Study**) with GLJ Ltd (**GLJ**) continued during the Period with a focus on subsurface mapping*
 - *Initial Study results confirmed Paralana's suitability for development as a Next-Generation Enhanced Geothermal System (**EGS**)*
 - *Subsurface mapping establishes a new zone suitable for further EGS development*
- **Flinders West Corridor Highlights**
 - *During the Period, the Company began developing new prospects within the Flinders West Corridor*
 - *These prospects have focused on developing commercialisation strategies for onsite power consumers with a focus on the areas near Roxby Downs and Olympic Dam*
- **Queensland Project Highlights**
 - *Continued the Company's study into the development of geothermal powered data centres at its Queensland Project*
 - *Discussions with potential development partners is underway*
- **During the Quarter the International Energy Agency (IEA) published its findings regarding Next-Generation EGS, concluding:**
 - *Investment expected to reach US \$1 trillion by 2035 and US \$2.5 trillion by 2050*
 - *US \$50MWh Levelised Cost of Electricity (**LCOE**) is anticipated*
 - *EGS is a potential cornerstone of the clean energy transition by providing reliable and green baseload electricity to electricity grids*
- **Cash at bank as at 31 December 2024 was \$3.9m**

PARALANA TECHNICAL AND ECONOMIC FEASIBILITY STUDY

The Technical Review and Red Flag Assessment during the Period independently confirmed that Paralana (GEL 696) is suitable to host a Next-Generation Enhanced Geothermal System.

The Study has, during the Period, focused on two potential EGS zones at Paralana:

- EGS “Type II” play type consisting of a dolerite / tuff reservoir with existing permeability, approximately 20km² (**Initial Zone**)
- EGS “Type I” play type consisting of a porphyry basement non-permeable reservoir, approximately 49km² (**Secondary Zone**)

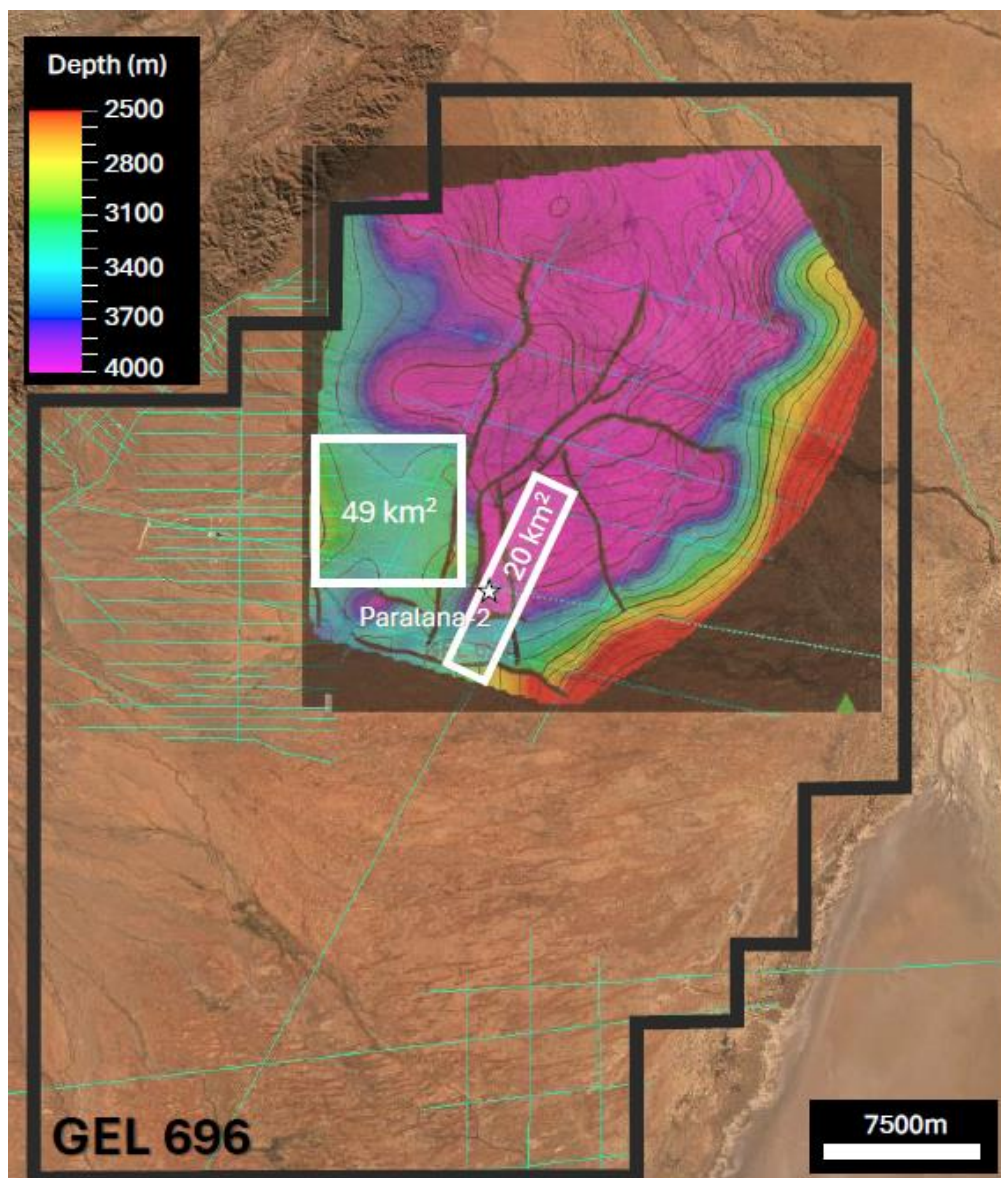


Figure 1: Paralana EGS zones.

The TEFS has identified two zones for these different plays, as shown in Figure 1. The Initial Zone area is some 20km², with the historical Paralana-2 well already accessing the geothermal heat reservoir to a depth of almost 4km.

The Secondary Zone, which has been newly established, is an area of approximately 49km² with shallower heat reservoir.

To illustrate how these areas have been identified by recent subsurface modelling, Figure 2 below shows that basement depth is shallower at between 3.1km and 3.4km depth. The Secondary Zone is significantly shallower than previously considered, potentially impacting drilling cost and reducing complexity.

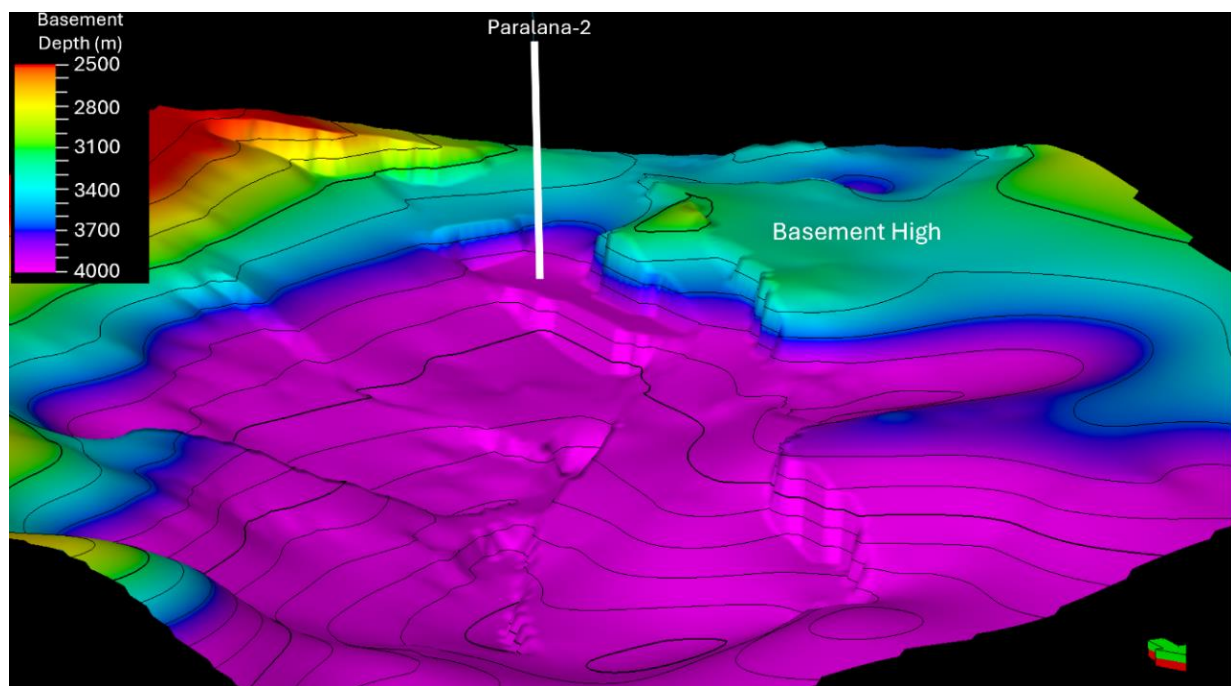


Figure 2: 3D southward view of the basement high EGS target area to the Northwest of the Paralana-2 well.

The Company expects to give an update on the Study during this current quarter.

FLINDERS WEST CORRIDOR PROSPECT DEVELOPMENT

During the Period the Company began establishing new prospect areas at the Company's Flinders West Corridor project. This work includes a focus on commercialising the potential of onsite power customers near Roxby Downs and Olympic Dam.

The Company anticipates making further updates during the current quarter.

QUEENSLAND GEOTHERMAL DATA CENTRE STUDY

During the Quarter, the Company continued with its study into the development of geothermal powered data centres at its Queensland project.

Discussions with potential development partners continue and the Company anticipates providing an update during the current quarter.

GLOBAL POTENTIAL OF NEXT GENERATION ENHANCED GEOTHERMAL SYSTEMS

The International Energy Agency's (IEA)¹ latest geothermal report underscores the transformative potential of EGS as a key driver of the clean energy transition. Technological breakthroughs, including horizontal drilling and advanced subsurface technology, are unlocking geothermal resources previously considered inaccessible. By accessing deeper and hotter reservoirs, EGS has the technical capacity to generate continuous, low-emissions baseload power across nearly all regions of the globe. The report highlights that geothermal energy has the second-largest technical potential for electricity generation among all renewable technologies, significantly outpacing onshore and offshore wind, and only trailing solar PV.

Advancements in drilling techniques are paving the way for cost reductions and scalability in next-generation geothermal systems. The IEA projects that geothermal energy could contribute to 15% of global electricity demand growth by 2050, representing up to 800 GW of installed capacity. This would produce nearly 6,000 terawatt-hours of electricity annually equivalent to the combined current electricity demand of the United States and India. Moreover, with utilisation rates exceeding 75%, geothermal energy offers a distinct advantage over variable renewable sources like wind and solar, providing reliable, round-the-clock energy generation and contributing to grid stability.

The economic case for EGS is compelling, with the IEA forecasting a Levelised Cost of Electricity as low as US\$50/MWh for next-generation geothermal projects. This cost competitiveness places geothermal among the most affordable dispatchable energy sources, rivalling hydropower, nuclear, and bioenergy. The report also highlights that cumulative investment in geothermal energy could reach US\$1 trillion by 2035 and grow to US\$2.5 trillion by 2050, surpassing current annual investment in onshore wind. Such projections solidify EGS as a scalable, globally deployable solution capable of meeting rising energy demand while reducing emissions and enhancing energy security.

JOINT VENTURE DISCUSSIONS

During the Quarter the Company commenced and continued early-stage discussions with potential joint venture partners regarding the Company's Paralana and Flinders West projects. These potential partners are US based and have the capacity to offer the Company access to significant project-level capital and expertise.

¹ IEA Report 13 December 2024 "The Future of Geothermal Energy" www.iea.org/reports/the-future-of-geothermal-energy

CORPORATE

Board renewal process

As part of the renewal process of the Company's Board, during the quarter Mr Glenn Whiddon was appointed as an independent non-executive Director and Mr Chris Bath resigned as an executive director, positioning the Board with a majority of independent directors. Mr Bath continues as the Company's Chief financial Officer.

Cash balance

The Company's cash balance at 31 December 2024 was \$3.9m (unaudited).

Use of Funds

For the Quarter, the Company provides a comparison of expenditure against the Use of Funds as set out in the Company's Prospectus dated 8 November 2023 pursuant to Listing Rule 4.7C.2.

Table 1- Use of Funds

Use of Funds	Prospectus \$	Actual spend \$
Corporate costs ²	1,816,486	1,219,682
Joint Venture technical services allocation	232,138	95,363
Accounting and support services	158,340	113,227
Geological services	480,000	109,682
Technical subsurface exploration activities	283,000	124,817
HSE adviser	320,000	-
Native title and land access	91,500	11,360
Consultants – drilling	360,000	-
Civil and exploration drilling	640,000	-
Engineering	80,000	-
HSEQ compliance requirements	72,000	-
Title rent and fees	300,000	28,159
Transaction costs	340,000	433,781
Broker fees	300,000	267,800
Working capital ³	526,536	-
TOTAL	6,000,000	2,403,871

Expenditure is generally in line with the use of funds from the Prospectus. Transaction costs were greater than expected due to the extended time required to complete the capital raise detailed in the Prospectus.

Evaluation and exploration expenditure during the Quarter amounted to \$0.098 million. During the Quarter, there was no mining production or development activities.

Related Party disclosure

During the Quarter, payments to related parties for directors' fees and key management personnel salaries totalled \$120,900.

² Comprises of general administration expenses, including director fees, audit fees, insurance, legal, ASX fees, investor relations costs, share registry costs, occupancy costs, accounting and book-keeping costs.

³ General working capital including, but not limited to, expenditure in respect to the Company undertaking due diligence investigations on potential additional complementary project opportunities.

Mr Grant Davey, who is a Director of the Company, is a director and shareholder of Matador Capital Pty Ltd (Matador Capital). The Company makes payments to Matador Capital under Shared Services and Office Use Agreements in which Matador Capital provides office space, office administration services, bookkeeping and accounting services and IT hardware and infrastructure to the Company. The services provided by Matador Capital are recovered from the Company on a cost-plus basis and totalled \$93,481.

Tenements held

Table 2 - Geothermal Tenements

Tenement	Status	EE1 Ownership	Area km ²	Registered Holder	Location
GELA692	Granted	84%	2,964	Volt Geothermal Pty Ltd	South Australia
GEL 693	Granted	84%	2,968	Volt Geothermal Pty Ltd	South Australia
GEL 694	Granted	84%	2,789	Volt Geothermal Pty Ltd	South Australia
GEL 695	Granted	84%	1,538	Volt Geothermal Pty Ltd	South Australia
GEL 696	Granted	84%	1,776	Volt Geothermal Pty Ltd	South Australia
GELA 768	Application	84%	288	Volt Geothermal Pty Ltd	South Australia
EPG 2026	Granted	84%	3,129	Within Energy Pty Ltd	Queensland
EPG 2031	Application	84%	3,642	Within Energy Pty Ltd	Queensland
EPG 2034	Application	84%	3,669	Within Energy Pty Ltd	Queensland
EPG 2036	Application	84%	2,589	Within Energy Pty Ltd	Queensland

Authorised for release by Earths Energy's Board of Directors.

END

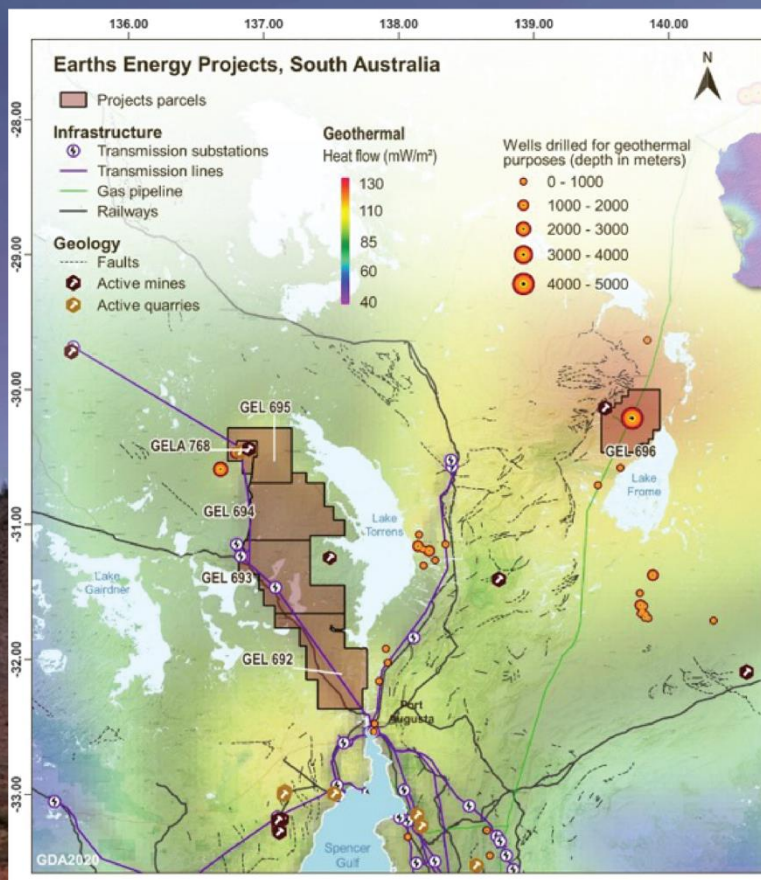
For more information contact:

JOSH PUCKRIDGE

Chief Executive Officer

jrp@ee1.com.au

+61 (8) 9200 3425



About Geothermal

Geothermal Projects provide green baseload power to electricity grids around the world. The USA produces 17.2 TWh of geothermal power per annum, equivalent to Western Australia's entire annual electricity demand.

The USA, Indonesia and Philippines combined produce enough geothermal power to meet over 17% of Australia's annual electricity demand.

About Earth's Energy (ASX: EE1)

Australia's Most Advanced Geothermal Explorer and Developer

Committed to the production of green baseload power in Australia

EE1 holds 84% of the Paralana and Flinders West geothermal projects located in South Australia, which stand as Australia's most advanced geothermal projects and have outstanding development potential.

EE1 also holds an 84% interest in geothermal projects located in Queensland.

EE1's landholdings comprise prospective geothermal exploration licences, surrounded by key existing infrastructure including powerlines and power substations.

The Company is focused on assessing the feasibility of commercial scale geothermal power generation capacity at multiple sites, including the suitability of its projects for carbon capture.

Shares on Issue

Total Shares on Issue	750.3m
Escrowed until 7 Feb 2026	220.4m
Escrowed until 7 Feb 2025	73.8m
Tradeable Shares	456.1m

Top 5 shareholders

Mimo Strategies	10.7% (fully escrowed until Feb 2026)
Stephen Biggins	10.2% (fully escrowed until Feb 2026)
Grant Davey	6.7% (partially escrowed until Feb 2025)
Jadematt Investments	5.9% (fully escrowed until Feb 2026)
Sunset Capital	5.7%

For more information see

Company Website

www.ee1.com.au

LinkedIn

www.linkedin.com/company/earths-energy/

Phone

+ 61 (8) 9200 3425

Contact

Josh Puckridge, Chief Executive Officer

jrp@ee1.com.au

Appendix 5B

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Name of entity

Earths Energy Limited

ABN

60 149 637 016

Quarter ended ("current quarter")

31 December 2024

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
1.	Cash flows from operating activities		
1.1	Receipts from customers	-	-
1.2	Payments for		
	(a) exploration & evaluation	-	-
	(b) development	-	-
	(c) production	-	-
	(d) staff costs	(109)	(262)
	(e) administration and corporate costs	(167)	(557)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	42	94
1.5	Interest and other costs of finance paid	-	-
1.6	Income taxes paid	-	-
1.7	Government grants and tax incentives	-	-
1.8	Other (provide details if material)	-	-
1.9	Net cash from / (used in) operating activities	(234)	(725)

2.	Cash flows from investing activities		
2.1	Payments to acquire or for:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) exploration & evaluation	(98)	(193)
	(e) investments	-	-
	(f) other non-current assets	(9)	(83)

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) investments	-	-
	(e) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Other (provide details if material)	-	-
2.6	Net cash from / (used in) investing activities	(107)	(276)

3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	-
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	-	-
3.4	Transaction costs related to issues of equity securities or convertible debt securities	-	-
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings	-	-
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
3.10	Net cash from / (used in) financing activities	-	-

4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	4,243	4,903
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(234)	(725)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(107)	(276)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	-	-

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	Cash and cash equivalents at end of period	3,902	3,902

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	402	243
5.2	Call deposits	3,500	4,000
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	3,902	4,243

6.	Payments to related parties of the entity and their associates	Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	214
6.2	Aggregate amount of payments to related parties and their associates included in item 2	-
<i>Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments.</i>		

7.	Financing facilities <i>Note: the term "facility" includes all forms of financing arrangements available to the entity. Add notes as necessary for an understanding of the sources of finance available to the entity.</i>	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000
7.1	Loan facilities	-	-
7.2	Credit standby arrangements	-	-
7.3	Other (please specify)	-	-
7.4	Total financing facilities	-	-
7.5	Unused financing facilities available at quarter end		-
7.6	Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.		
	N/A		

8. Estimated cash available for future operating activities	\$A'000
8.1 Net cash from / (used in) operating activities (item 1.9)	(234)
8.2 (Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	(98)
8.3 Total relevant outgoings (item 8.1 + item 8.2)	(332)
8.4 Cash and cash equivalents at quarter end (item 4.6)	3,902
8.5 Unused finance facilities available at quarter end (item 7.5)	-
8.6 Total available funding (item 8.4 + item 8.5)	3,902
8.7 Estimated quarters of funding available (item 8.6 divided by item 8.3)	11.75
<i>Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.</i>	
8.8 If item 8.7 is less than 2 quarters, please provide answers to the following questions:	
8.8.1 Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?	
Answer: N/A	
8.8.2 Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?	
Answer: N/A	
8.8.3 Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?	
Answer: N/A	
<i>Note: where item 8.7 is less than 2 quarters, all of questions 8.8.1, 8.8.2 and 8.8.3 above must be answered.</i>	

Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: 31 January 2025

Authorised by: **the Board**
(Name of body or officer authorising release – see note 4)

Notes

1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, *AASB 6: Exploration for and Evaluation of Mineral Resources* and *AASB 107: Statement of Cash Flows* apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee – eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.