ARCHEGON PUBLIC PROJECT SUMMARY

Australia Project Summary

Off-grid Cooper Basin AI inference hub

Public framing

Archegon is exploring a higher-risk Australian route: an off-grid, behind-the-meter AI inference hub in the Cooper Basin, combining enhanced geothermal systems, solar, storage, dry cooling, and resilient connectivity. The public thesis is that remote firm clean power can become useful when the compute load moves to the resource instead of waiting for transmission. This summary generalises the source business plan for qualified conversations only.

Route thesis

- Cooper Basin hot-dry-rock geology creates a frontier option on large-scale firm clean power, but commercial-scale reservoir performance remains the central risk.
- The intended model is vertically integrated and behind the meter: geothermal baseload, solar support, storage, cooling, fibre or redundant backhaul, and modular data-centre capacity.
- The route is explicitly milestone-gated; no large-scale build should proceed until subsurface, water, cooling, connectivity, offtake, and financing risks are materially de-risked.

Why Australia

- The Cooper Basin has historic geothermal proof points and very hot granite, while the remote location historically made power export difficult.
- AI inference and other latency-tolerant workloads could change the economics by bringing demand to the power source.
- Potential co-products and land-use ideas, including lithium brine analysis and agrivoltaic land use, are treated as research-stage upside rather than base-case economics.

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Development path

- Phase 0: resource confirmation, pilot well design, water and cooling strategy, tenure, environmental route, connectivity plan, and customer discovery.
- Phase 1: only if the pilot validates the reservoir and commercial gates, pursue a first modular campus with anchor demand and project-finance-ready diligence.
- Later phases would use repeatable blocks only after well productivity, cooling performance, logistics, contracting, and cost data are proven.

Key diligence workstreams

- EGS reservoir productivity, drilling cost curve, induced-seismicity controls, reinjection, and long-term resource performance.
- Water availability, dry and radiative cooling performance, desert construction logistics, fibre resilience, LEO redundancy, and operational staffing.
- Capital intensity, anchor customer structure, grants or public finance, strategic partners, regulatory tenure, FX, insurance, and first-of-a-kind execution risk.

What Archegon is seeking

- Expressions of interest from geothermal developers, subsurface experts, infrastructure capital, hyperscale or AI compute customers, energy partners, and Australian policy or grants specialists.
- Technical review of whether the Fervo-style EGS playbook, cooling architecture, and connectivity route can be adapted credibly to the Cooper Basin.
- Qualified conversations that may lead to a separate private data-room review.

Financial model and diligence

The underlying source plan contains pilot capital requirements, Phase 1 capex ranges, scenario analyses, capital-stack scenarios, sensitivity tables, and exit analysis. Those figures are not published here because the opportunity is first-of-a-kind and requires technical validation, legal review, and a qualified diligence process before any investment discussion.