



Strategic Growth from Geothermal Brine

Commercial Guide

 Lithium Harvest

Monetize Your Brine

Executive Summary

Turn your brine into a contractable lithium revenue stream - with Lithium Harvest delivering and operating the lithium asset under DBOO, so your team stays focused on power/heat production.

What the partnership unlocks

- **Dual revenue from the same brine loop:** Add lithium as an upside stream while power/heat stays primary.
- **Commercially clean expansion:** Participate in critical minerals without building a mining organization or new operating function.
- **Stronger buyer relevance:** Baseload brine flow plus localized supply positioning supports a more credible offtake story.

Why DBOO is different from buying equipment

- **Not a tech purchase:** Lithium Harvest designs, builds, owns, and operates the lithium asset.
- **Zero operating burden:** Your team stays focused on core power/heat operations while we manage the lithium asset.
- **Flexible structures:** Commercial models are tailored to your specific risk appetite and financial priorities.

Fast path to first cash

- **Target ~12-18 months** from go-decision to first production/cash (site-dependent, integration and permitting scope can shift timelines).

The BD test - make it a deal that scales

- **Fast to decide:** Clear stage gates and decision outputs.
- **Protect the core asset:** Generation uptime and reinjection requirements stay primary.
- **Low internal lift:** No lithium org build - operated under DBOO.
- **Aligned economics:** Partnership model - not fee-for-service.
- **Proof as needed:** Validation options to support a bankable deal basis.

Why This Venture is Commercially Attractive

The strategic pivot: turning the brine loop into a second revenue line.

For geothermal operators, the brine loop is the plant's economic engine. This venture adds a second monetization pathway from the same loop: produce power/heat and lithium - without changing what your organization is built to do.

A new, non-core revenue stream (without a business build)

- **Dual revenue from the same wells:** Add lithium upside while power/heat stays primary.
- **No "mining org" required:** You don't have to become a lithium operator. Under DBOO, Lithium Harvest designs, builds, owns, and operates the lithium asset, and you participate through a JV or royalty structure.
- **Infrastructure leverage:** Co-location on an existing operating footprint turns your site access, utilities, and brine handling infrastructure into an execution advantage.
- **Side stream model keeps risk bounded:** Lithium recovery is integrated as an add-on with defined interfaces, designed to protect generation uptime and reinjection requirements.

Market timing: Capturing the execution gap

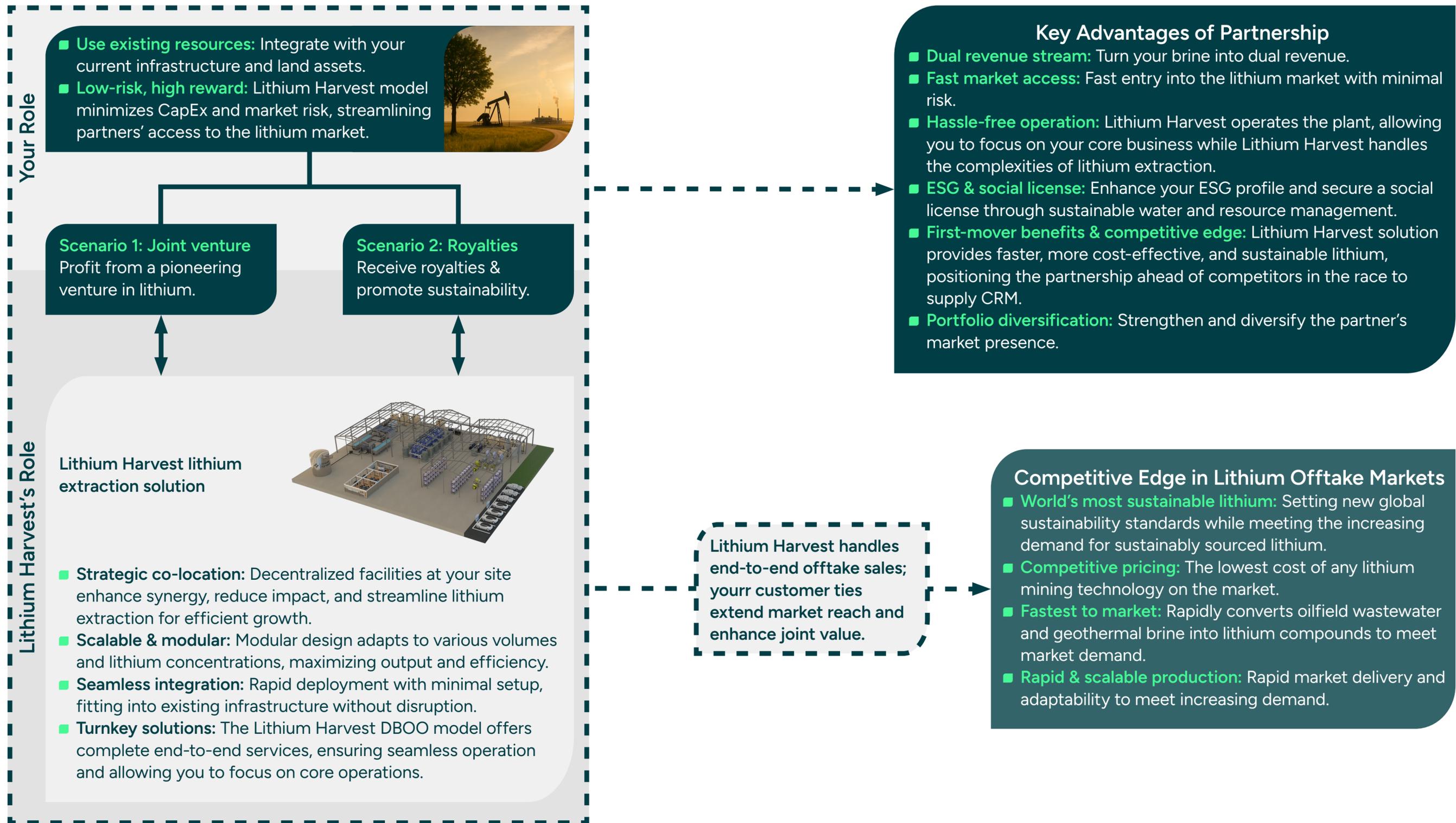
The market is currently facing a "Supply Wall," and your organization is sitting on the solution.

- **Demand growth is structural:** Many forecasts point to 2-3x 2024 demand by 2030 (16% CAGR), with high-adoption scenarios reaching roughly 5x by 2040.
- **Legacy supply is slow:** New mines can take 10-17 years to reach first production, creating a premium for projects that can be executed on shorter timelines.
- **Fast path to first cash:** Modular deployment and a clear proof step can target 12-18 months from go-decision to first production/cash (site-dependent).
- **Cost resilience:** Because we use existing fluids and modular tech, our model achieves an OpEx of \$3,647 per metric ton LCE - up to 48% lower than global averages. This ensures the partnership remains profitable even through volatile commodity price cycles.

Executive insight: An integrated upside, not a new core business

This is not a replacement for geothermal. It's a co-located, operated add-on: you bring stream access and site leverage; Lithium Harvest brings capital, execution, and operations under DBOO. The result is a practical path to a credible critical-minerals revenue line without rebuilding your operating model.

Partnership Value Model



The DBOO Advantage - Operated Service, Not Hardware

Most DLE vendors sell equipment. Lithium Harvest delivers an operated lithium asset. Design - Build - Own - Operate (DBOO) means:

- **No "science projects":** You're not buying a plant and hoping it performs. The project is structured around decision-grade proof and an execution plan before major capital is committed.
- **No headcount growth:** You don't need to build a lithium operations team. Lithium Harvest runs the asset day-to-day within defined site interfaces.
- **Risk stays aligned with outcomes:** Technical execution and operations fall under Lithium Harvest within DBOO. Commercial structures determine how risk and upside are shared - but the operating burden stays off your organization.



Joint Venture

Overall benefits

A shared-ownership structure where we co-invest in a lithium plant at your site. You participate directly in project profits and position yourself as a pioneer in sustainable lithium and water management.

Your contribution

Provide geothermal brine, site for co-location, reinjection well access or equivalent, and an agreed capital contribution at the project level.

Lithium Harvest role

We design, build, and operate the plant using our patented lithium extraction solution. We manage lithium offtake and sales into the battery supply chain and share project returns with you as partners.

Royalty License

A service-style model where we invest in and own the lithium plant at your site. You earn royalties from your brine and strengthen your ESG profile through sustainable water and resource management.

Provide geothermal brine, site for co-location, reinjection well access, or equivalent - no capital contribution to the lithium plant in a standard set-up.

We design, build, own, and operate the lithium extraction plant using our engineered solution, and pay you agreed royalties linked to production from your brine.

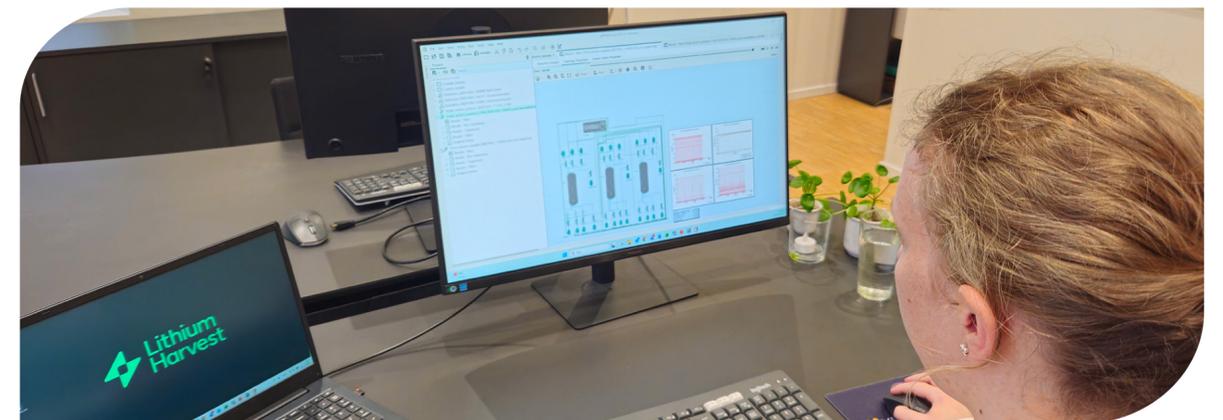
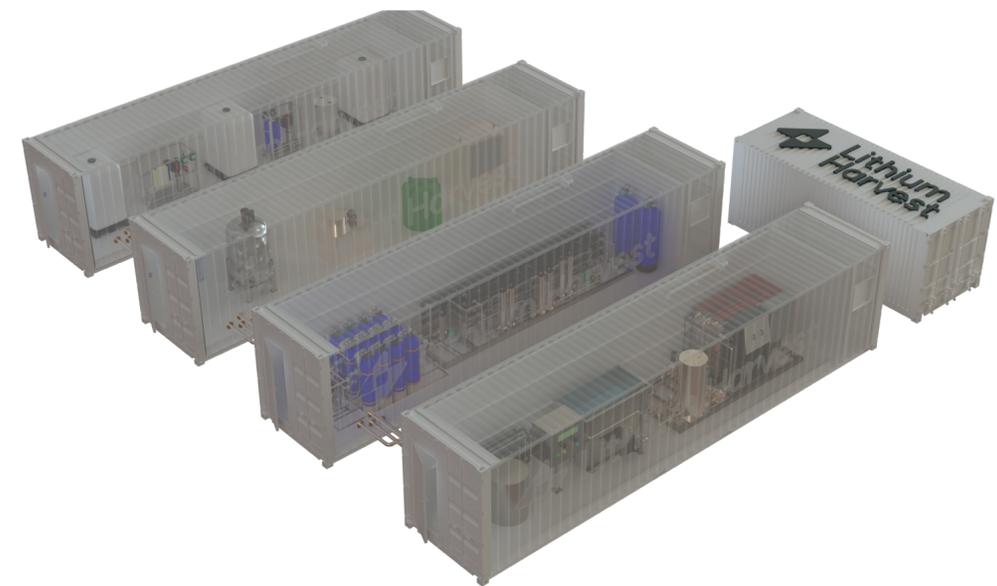
From Brine to Bankable Project

Validate on site. Model in the digital twin. Ready to scale.

The Lithium Harvest Mobile Site-Validation Unit (SVU) runs your geothermal brine on a scaled-down commercial train at your site to generate decision-grade performance data under real operating conditions.

Those results feed into the Digital Twin to define a site-specific operating envelope and design basis, supporting defensible economics, integration planning, and a clearer path to a term sheet and contract-ready opportunity.

Used when needed (based on data quality, variability, and project scale).



Business Case (Illustrative)



Produced water	265 m ³ /h
Lithium concentration	125 ppm
Lithium price	\$14,175 (Consensus price 1-revenue year)
CapEx	\$26M
OpEx	\$3,647/t
Lithium production	1,200 tpa
Gross margin	74%
Revenue	\$17.1M
1-year result	\$12.7M
Payback period	2 years

How Lithium Prices Impact Payback Time



Economic feasibility - primary drivers

- Lithium concentration
- Water volume and flow continuity
- Infrastructure leverage
- Commercial structure
- Lithium price/offtake terms

Disclaimer: This example is illustrative to show the value logic. Actual outputs and economics are site-specific and must be confirmed through project-specific validation. Any pricing used in this business case is an illustrative assumption and is provided for modeling purposes only. The price assumption references the consensus price for the first revenue year as presented in the Lithium Harvest Investment Memorandum (2025). No representation or warranty is made regarding the accuracy, completeness, or future realization of any price, output, cost, or economic outcome.

Why Partner with Lithium Harvest?

- **Dual revenue from the same well:** Produce power/heat and lithium from the same brine loop - improve project economics without drilling new wells.
- **Engineered for variable geothermal brine:** Lithium extraction isn't a plug-in module - it's an integrated treatment-and-extraction system engineered to your chemistry and operating envelope.
- **Add value without adding operational complexity:** We run the lithium system as an integrated add-on under DBOO - you keep running your plant.
- **Aligned commercial model:** We earn when you earn. DBOO + revenue sharing creates a partnership model - not a fee-for-service vendor relationship.
- **Stronger stakeholder and offtake story:** Geothermal becomes both a renewable energy source and a critical minerals supply, supporting stakeholders, permitting narratives, and buyer requirements.
- **Proof of execution discipline:** 20+ years in industrial water treatment - 400+ large-scale systems designed and installed.
- **Scenario flexibility:** Commercial structures let you choose the right risk/upside.

What We Need to Assess Feasibility

- **Water composition data:** Full water analysis confirming lithium concentration, ionic composition, key impurities, and any available variability history.
- **Flow profile:** Typical flow, operating range, and stability over time.
- **Temperature and pressure:** Expected operating ranges (inlet temperature).
- **Reinjection context:** Reinjection constraints/specs and any known operating bottlenecks (high level).
- **Site context:** Preferred side stream tie-in point, footprint constraints, and available utilities.

Let's Structure a Deal That Works

Build a contractable lithium revenue stream from geothermal brine - with DBOO execution and flexible deal structures.



Headquarters

USA
2800 Post Oak Blvd., Suite 1910
TX 77056 Houston
+1 (346) 446-5728
sales@lithiumharvest.com

Technology Center

Denmark
Tankedraget 7
DK-9000 Aalborg
+45 3164 6400
sales@lithiumharvest.com

Let's Talk Lithium Extraction



Scan QR
to learn more

 Lithium Harvest

