Strategic Growth from Produced Water

Commercial Guide

Lithium Harvest

Monetize Produced Water

Executive Summary

Turn produced water into a contractable lithium revenue stream - with clear deal models, value sharing, and no lithium operating burden under DBOO.

What the partnership unlocks

- **New profit from an existing stream:** Convert produced water from a cost line into a high-margin value stream.
- **Strategic diversification:** Gain institutional exposure to the critical minerals market without shifting your core upstream or midstream focus.
- **Scalable execution:** Modular facilities enable staged on-site scale-up and repeatable deployment across your entire asset portfolio.

Why DBOO is different from buying equipment

- **Service, not hardware:** This is not a technology purchase. Lithium Harvest designs, builds, owns, and operates (DBOO) the plant.
- **Zero operating burden:** Your team stays focused on core O&G/midstream operations while we manage the lithium asset.
- **Flexible structuring:** Commercial models are tailored to your specific risk appetite and financial priorities.

The BD test: A deal that scales

- **Fast to decide:** Clear stage gates and decision-grade data outputs.
- **Low internal lift:** DBOO keeps the lithium asset off your operational headcount.
- **Aligned economics:** We earn when you earn - a partnership, not a vendor relationship.
- **Validation built-in:** SVU + Digital Twin support an FID-ready business case.

Why This Venture is Commercially Attractive

The Strategic Pivot: Moving Produced Water from the "Cost" to the "Revenue" Column.

For most O&G and Midstream operators, produced water is a liability - a constant cycle of transportation, treatment, and disposal costs. This venture flips that script. We don't just "handle" your water; we monetize it as a strategic feedstock.

A new, non-core revenue stream

- **Monetize the waste:** Turn a liability stream into a high-purity lithium revenue line without adding a single person to your headcount.
- **No "business build" required:** You don't have to become a lithium company. Our DBOO model (Design, Build, Own, Operate) means we handle everything, while you share in the upside through royalties or a JV.
- **Infrastructure leverage:** Your existing pads, power, roads, and pipelines are underutilized assets. Co-locating extraction at your midstream hubs or disposal wells turns that infrastructure into a competitive advantage.

Market timing: Seizing the "execution gap"

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

- **The growth reality:** Analyst consensus forecasts call for 2-3x 2024 demand by 2030 (a 16% CAGR). In high-adoption scenarios, this expands to 4.7-5.5x current levels by 2040.
- **Speed to revenue:** Traditional mines take 10-17 years to come online; we can have a co-located facility online and cash-generative in 12-18 months.
- **Deficit opportunity:** As traditional supply fails to keep pace with mandated demand, a structural shortfall is emerging. This widening gap makes your "lithium-rich" fluids an increasingly valuable strategic asset, transforming a disposal burden into a sought-after industrial feedstock.
- **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: The high-yield add-on

This isn't a replacement for your core business; it's an "integrated upside". You provide the stream access; we provide the capital and execution. It's the fastest route to turning a mandatory operational cost into a bankable, low-carbon profit.

Partnership Value Model

Your Role

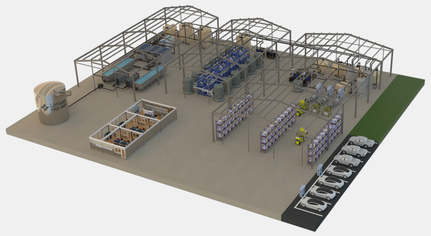
- **Use existing resources:** Integrate with your current infrastructure and land assets.
- **Low-risk, high reward:** Lithium Harvest model minimizes CapEx and market risk, streamlining partners' access to the lithium market.

Scenario 1: Joint venture
Profit from a pioneering venture in lithium.

Scenario 2: Royalties
Receive royalties & promote sustainability.

Lithium Harvest's Role

Lithium Harvest patented lithium extraction solution



- **Strategic co-location:** Decentralized facilities at your site enhance synergy, reduce impact, and streamline lithium extraction for efficient growth.
- **Scalable & modular:** Modular design adapts to various volumes and lithium concentrations, maximizing output and efficiency.
- **Seamless integration:** Rapid deployment with minimal setup, fitting into existing infrastructure without disruption.
- **Turnkey solutions:** The Lithium Harvest DBOO model offers complete end-to-end services, ensuring seamless operation and allowing you to focus on core operations.

Lithium Harvest handles end-to-end offtake sales; your customer ties extend market reach and enhance joint value.

Key Advantages of Partnership

- **New revenue stream:** Turn costly byproducts into valuable lithium.
- **Fast market access:** Fast entry into the lithium market with minimal risk.
- **Hassle-free operation:** Lithium Harvest operates the plant, allowing you to focus on your core business while Lithium Harvest handles the complexities of lithium extraction.
- **ESG & social license:** Enhance your ESG profile and secure a social license through sustainable water and resource management.
- **First-mover benefits & competitive edge:** Lithium Harvest solution provides faster, more cost-effective, and sustainable lithium, positioning the partnership ahead of competitors in the race to supply CRM.
- **Portfolio diversification:** Strengthen and diversify the your market presence.

Competitive Edge in Lithium Offtake Markets

- **World's most sustainable lithium:** Setting new global sustainability standards while meeting the increasing demand for sustainably sourced lithium.
- **Competitive pricing:** The lowest cost of any lithium mining technology on the market.
- **Fastest to market:** Rapidly converts oilfield wastewater and geothermal brine into lithium compounds to meet market demand.
- **Rapid & scalable production:** Rapid market delivery and adaptability to meet increasing demand.

The DBOO Advantage: Service, Not Hardware

Most DLE providers try to sell you a “black box” technology. Lithium Harvest provides a performance-guaranteed service. Design - Build - Own - Operate means:

- **No science projects:** We don’t ask you to buy a plant and hope the numbers work. We invest our own capital alongside yours.
- **No headcount growth:** You don’t need to hire lithium chemists or specialized operators. Our team manages the asset 24/7.
- **Risk transfer:** Technical, execution, and operational risks stay with us. If the plant doesn’t produce, we don’t earn.

	Joint Venture	Royalty License
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.	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.
Your contribution	Provide treated produced water or brine, site for co-location, SWD well access or equivalent, and an agreed capital contribution at the project level.	Provide treated produced water or brine, site for co-location, SWD well access, or equivalent - no capital contribution to the lithium plant in a standard setup.
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.	We design, build, own, and operate the lithium extraction plant using our patented solution, and pay you agreed royalties linked to production from your brine.

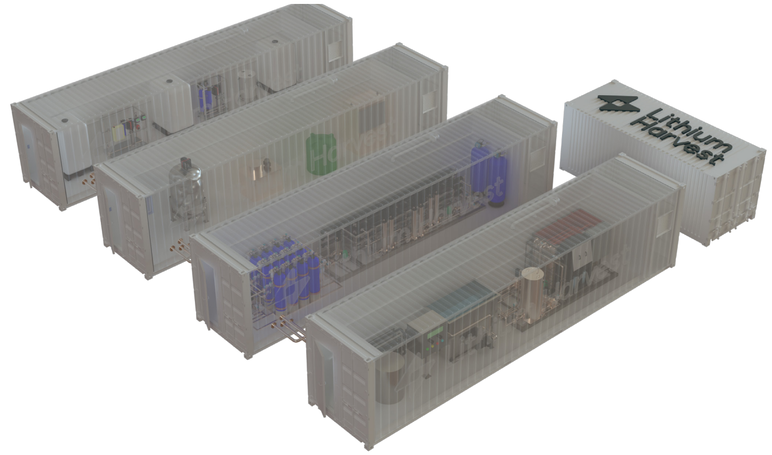
De-risking to “Decision-Grade”

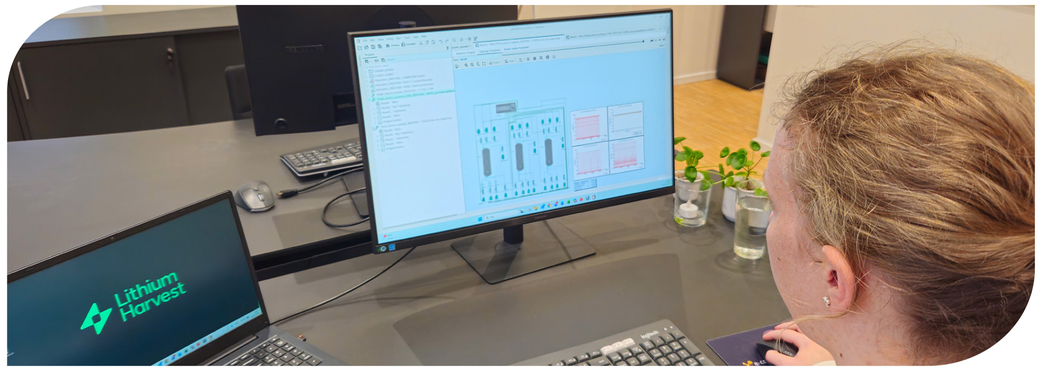
Validate on site. Model in the digital twin. Ready to scale.

We move projects from “interesting” to “bankable” using a disciplined two-step validation process:

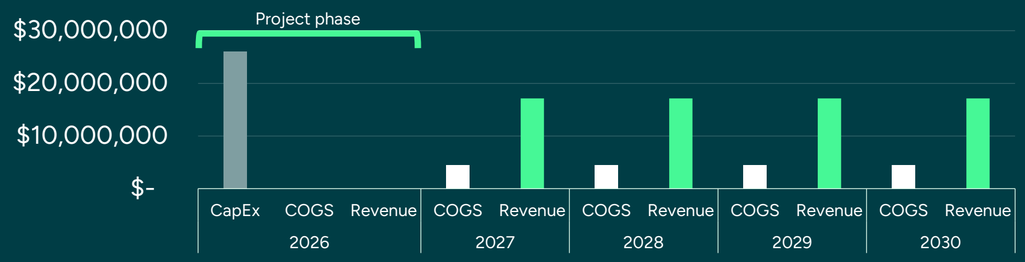
1. **The Mobile Site-Validation Unit (SVU):** This is not a lab test. It is a scaled-down commercial train that runs your actual brine at your site. We prove recovery rates, product quality, and reagent use in real-world conditions.
2. **The Digital Twin:** Data from the SVU feeds into our site-specific Digital Twin. This generates accurate mass/energy balances and precise OpEx/CapEx models.

The result: You receive an FID-ready package with a clear Basis of Design and defensible economics.

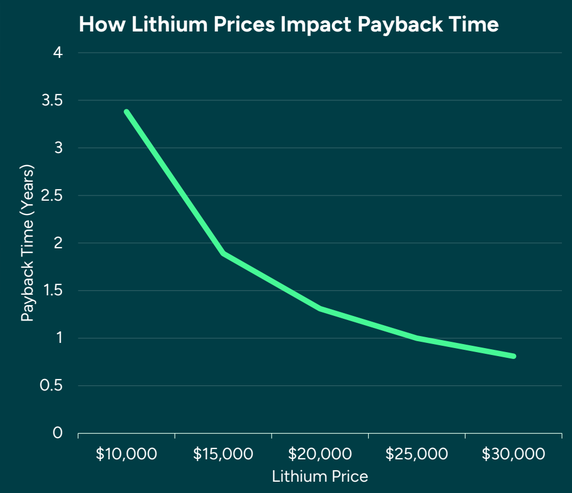




Business Case (Illustrative)



Produced water	40,000 bbl./d
Lithium concentration	125 mg/L
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



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 (2026). 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?

Water engineers, not mining theorists. The biggest failure in DLE is treating produced water like a simple brine. It isn't. It's a complex industrial fluid.

- **20+ years of pedigree:** Our founders come from the front lines of industrial water treatment.
- **400+ systems installed:** We have designed and commissioned over 400 large-scale systems across the O&G and industrial sectors.
- **Engineered for variability:** Our flowsheet is built to handle the swings in chemistry, temperature, and flow common in midstream operations.
- **Execution discipline:** We use commercially proven unit operations - pre-treatment, adsorption, and refining - integrated into a single, automated plant.
- **Scenario flexibility:** JV vs royalty structures let you choose the right risk/upside profile.

What We Need to Assess Feasibility

- **Water composition data:** Full water analysis confirming lithium concentration, ion composition, key impurities, and any available variability history.
- **Flow data:** Typical volumes, ranges, and continuity (seasonal/operational swings).
- **Site context:** Preferred co-location point (midstream facility or disposal well), footprint constraints, and available utilities.
- **Current water handling:** Base-case disposal/reinjection route and any known constraints or bottlenecks.

Let's Structure a Deal That Works

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

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Let’s Talk Lithium Extraction

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