



# Hassle-free geothermal lithium extraction

 Lithium Harvest

# Maximize your resources

## Executive Summary

At Lithium Harvest, we transform geothermal brines into a valuable resource by extracting lithium and other critical minerals - providing a faster, more cost-effective, and environmentally sustainable alternative to traditional lithium mining. Our solution leverages existing geothermal infrastructure, enabling you to capitalize on the growing lithium market with minimal investment.

Our Design-Build-Own-Operate (DBOO) model ensures seamless integration with minimal setup, allowing you to focus on energy production while we handle the complexities of lithium extraction, driving both efficiency and sustainability.

## Optimized Resource Management & Infrastructure Integration

Efficiently managing geothermal brine is key to maximizing value and minimizing operational impact. Lithium Harvest transforms this energy production resource into a profitable asset, supporting sustainability goals and long-term operational efficiency. Our commitment to responsible resource management ensures low environmental impact, aligning with global ESG standards.

## Leverage Existing Geothermal Infrastructure

Lithium Harvest's extraction solution seamlessly integrates with existing geothermal power plants, minimizing modifications and reducing capital investment.

- **Strategic Co-location:** On-site lithium extraction optimizes logistics, enhances efficiency, and reduces environmental impact.
- **Decentralized Approach:** Our decentralized model adapts to various geothermal plant sizes, offering a flexible, scalable lithium extraction solution.
- **Scalable & Modular:** Designed to handle diverse brine chemistries, allowing geothermal operators to scale efficiently as production grows.
- **Seamless Integration:** Our system operates alongside geothermal power generation, ensuring no disruption to energy output.

## Seamless Integration & Efficient Operation

Lithium Harvest's geothermal lithium extraction solution is designed for rapid deployment, minimal setup, and zero disruption to energy production. Our compact, modular system integrates seamlessly with existing geothermal infrastructure, allowing you to capitalize on lithium market demand without operational delays.

- **Fast Deployment:** Begin operations within 12-15 months with a low-risk, high-return model.
- **Compact Footprint:** Our space-efficient system requires no additional land, ponds, or pipelines – fitting a 3,200 m<sup>3</sup>/d facility within just 1.4 acres.
- **Uninterrupted Operation:** Systems equipped with control valves can pause or bypass extraction during low lithium concentrations or maintenance, thus maintaining operational efficiency.

## Proven Technology & Trusted Expertise

With 20+ years of experience in resource extraction and water treatment, Lithium Harvest delivers tailored solutions optimized for varied geothermal brine chemistries. Combining only commercially proven technologies with extensive experience in water treatment engineering and design, Lithium Harvest is a trusted partner, building long-term relationships focused on profitability, environmental stewardship, and local growth.

## We Operate, You Profit

As a turnkey solution provider, Lithium Harvest handles everything from design to operation using our Design-Build-Own-Operate (DBOO) approach. Our tailored business models allow you to focus on energy production while we expertly manage lithium extraction, maximizing efficiency and profitability with minimal operational risk.



### Brine to Profit

Transform geothermal brine into a lucrative asset



### Hassle-Free Experience

We handle the lithium extraction operations



### Seamless Integration

Fits into existing infrastructure without interruption



### High Recovery & Scalability

Adapts to diverse brine chemistries and scales seamlessly



### Low Risk, High Reward

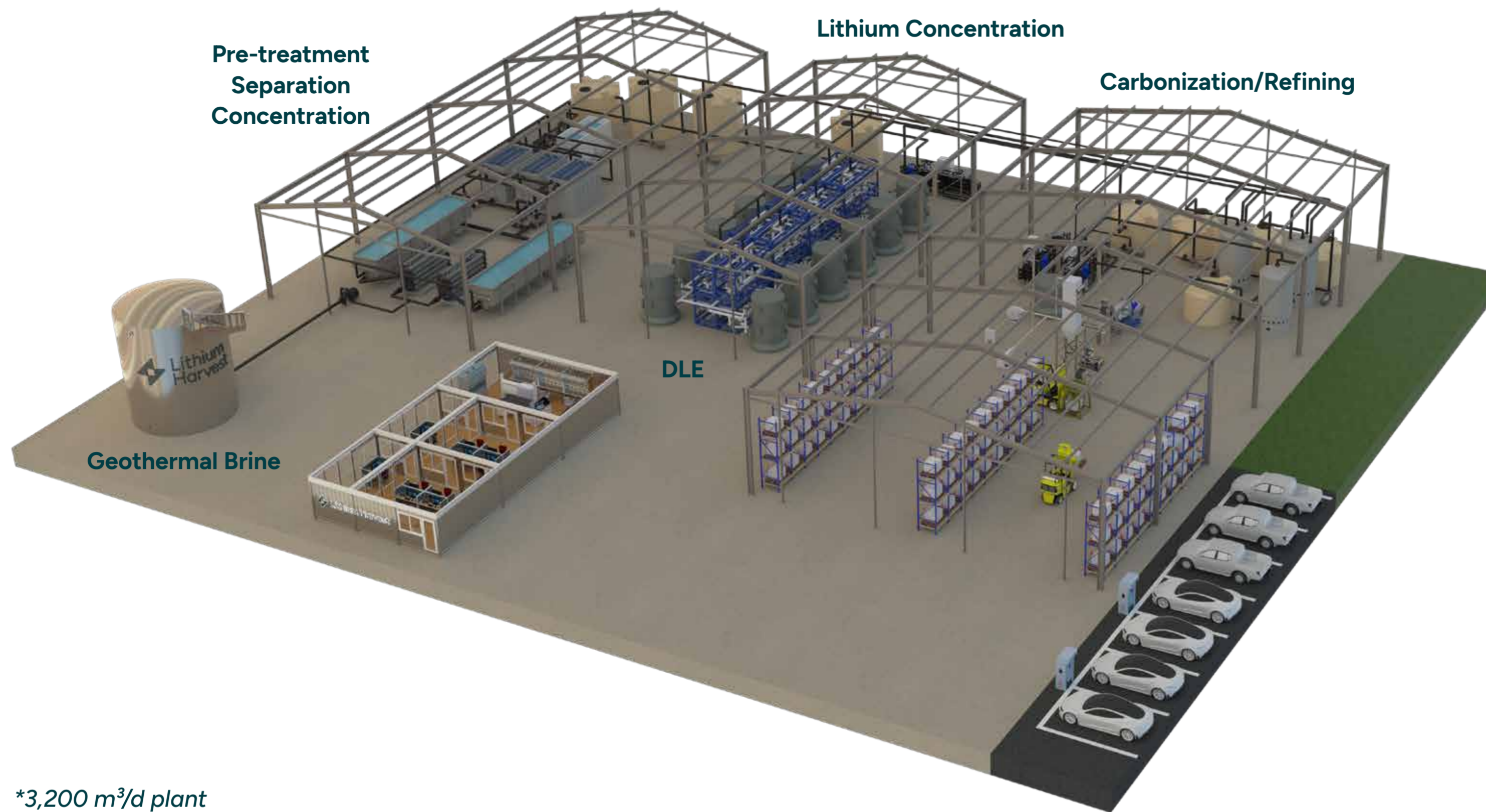
Minimal risk, substantial revenue potential



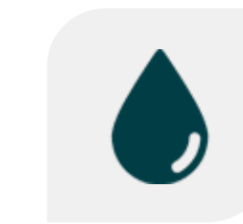
### Sustainability

Improved water and resource management

## Our Lithium Extraction Solution



\*3,200 m<sup>3</sup>/d plant



>90%  
Water recycled



>95%  
Lithium extracted



Neutral  
CO<sub>2</sub> footprint



1.4 acres  
Footprint

### Utilities We Use:

- Electricity
- Water
- Heat

### From Heat to Value: Unlocking Lithium from Geothermal Brines

Our lithium extraction solution seamlessly integrates with geothermal operations, extracting high-purity lithium and other critical minerals while maintaining closed-loop energy production. This fully automated, carbon-neutral process maximizes resource efficiency with minimal operational impact.

- **Brine Collection:** Geothermal brine is sourced from existing operations.
- **Filtration & Pre-Treatment:** Suspended solids and impurities are removed, optimizing brine for efficient lithium extraction.

- **Advanced Lithium Extraction:** Using adsorption-based DLE technology, lithium and other valuable minerals are selectively extracted efficiently - backed by commercially proven technologies.
- **Brine ReInjection:** The treated brine is re-injected into the geothermal reservoir, ensuring sustainable, closed-loop water management without depletion.

# We operate, you profit



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 Lithium Harvest

