



Hassle-free lithium extraction

 Lithium Harvest

Maximize your resources

Executive Summary

At Lithium Harvest, we turn produced water into a valuable resource by extracting lithium and other critical minerals - offering a faster, more cost-effective, and environmentally friendly alternative to traditional mining. Our solution leverages existing infrastructure, providing the oil industry with a first-mover advantage in the growing lithium market.

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

Water Resource Management & Infrastructure Optimization

Efficiently managing produced water is key to maximizing resources and revenue while minimizing costs and environmental impact. Lithium Harvest transforms this byproduct into a valuable asset, advancing sustainability and the green energy transition. Our commitment to responsible water stewardship enhances both operational efficiency and environmental responsibility. Through innovative technology and existing infrastructure, we provide a sustainable pathway for effective water resource management that benefits industry and the planet.

Utilize Existing Infrastructure & Land Resources

Lithium Harvest's extraction solution integrates seamlessly into existing oilfield or midstream operations. By co-locating our extraction and refining facilities at your midstream sites or disposal wells, we minimize logistical challenges and eliminate the need for extensive retrofitting or new builds, reducing costs and complexity.

- **Strategic Co-location:** By placing extraction and refining facilities on-site, we streamline operations, boost efficiency, and reduce environmental impact.
- **Decentralized Approach:** Our decentralized model adapts to various operational scales, offering flexible, scalable lithium extraction.
- **Scalable & Modular:** Whether handling high or low volumes of produced water, our modular technology can scale to meet your operation.
- **Seamless Integration:** Our solution integrates effortlessly into your current produced water management systems with no interruption.

Easy & Hassle-Free Integration & Operation

Lithium Harvest's patented solution is designed for rapid deployment and operational flexibility with minimal setup and no disruption to your core activities. Our compact, modular design fits within your existing infrastructure, allowing a swift response to lithium market demands.

- **Fast Deployment:** Start operations within 12-18 months.
- **Compact Footprint:** Our small, modular setup requires no extensive land use, ponds, or pipelines - fitting a 20,000 bbl./d facility within just 1.4 acres.
- **Uninterrupted Operation:** Equipped with control valves, our system can pause or bypass extraction during low lithium concentrations (ensuring cost-effectiveness) or routine maintenance, ensuring continuous flow for your primary operations.

Proven Technology & Strong Partnerships

With over 20 years in industrial wastewater treatment and clean energy innovation, our team understands the unique challenges of produced water management. We tailor solutions to each water source's chemistry, ensuring optimal lithium recovery while minimizing costs. 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

Lithium Harvest is a turnkey solution provider, ensuring efficient, seamless lithium extraction with minimal disruption. Using our Design-Build-Own-Operate (DBOO) approach, we manage the entire process - from design to operation - enabling rapid deployment and smooth integration into your existing infrastructure. With tailored business models, you can focus on core operations while we expertly handle the complexities of lithium extraction, delivering maximum efficiency and profitability.



Waste to Value

Turns wastewater into revenue



Hassle-Free Experience

We handle the lithium extraction operations



Seamless Integration

Fits into existing infrastructure without interruption



Reuse Options

Offers dual benefits with beneficial reuse



Low Risk, High Reward

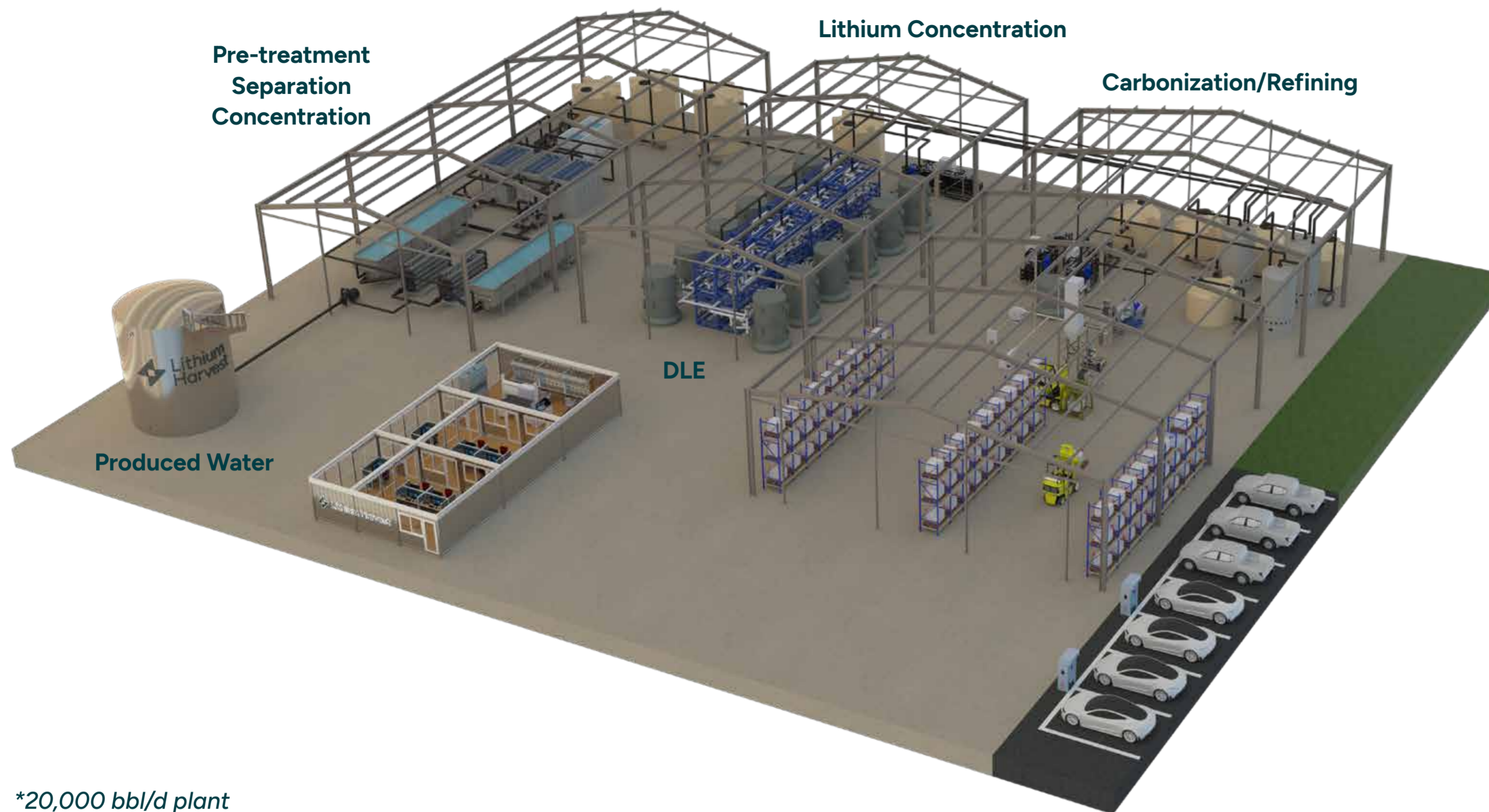
Minimal risk, substantial revenue potential



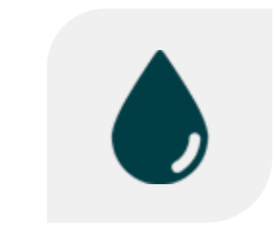
Sustainability

Improved water and resource management

Our Lithium Extraction Solution



*20,000 bbl/d plant



>90%
Water recycled



>95%
Lithium extracted



Neutral
CO₂ footprint



1.4 acres
Footprint

Utilities We Use:

- Electricity
- Water
- Gas (Optional)

From Waste to Value: Extracting Resources with Patented Solution

Our patented Direct Lithium Extraction (DLE) technology utilizes advanced adsorption and water treatment methods to extract lithium and other critical minerals directly from produced water streams. Fully automated, our process minimizes resource requirements and limits the need for extensive on-site staffing. Our process not only maximizes lithium recovery but also aligns with both sustainability goals and the profitability objectives of oil and gas companies.

- 1. Collection:** Produced water, a by-product of oil and gas extraction, is collected from wells or midstream companies and brought to our strategically co-located treatment facilities.
- 2. Filtration & Separation:** The water undergoes a thorough filtration and separation process to remove suspended solids, hydrocarbons, heavy metals, and other contaminants, preparing it for efficient lithium extraction.

- 3. Advanced Water Treatment:** The water is purified and desalinated using state-of-the-art treatment technologies. This step ensures that any remaining impurities are removed, meeting the highest quality standards for lithium extraction.
- 4. Resource Extraction:** We fully utilize this once-waste product to extract lithium and other valuable critical minerals from the treated water. Our commitment to the green energy transition ensures that resource recovery is maximized in an environmentally responsible manner.
- 5. Repurposing:** The treated water, now free from contaminants, is ready for beneficial reuse. It can be repurposed for industrial or agricultural needs, used for irrigation, re-injected into oil and gas reservoirs, or applied sustainably, further supporting environmental goals.

We operate, you profit



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 Lithium Harvest

