

# Growth with sustainable lithium

 Lithium Harvest

# Unlocking new markets

## Executive Summary

At Lithium Harvest, we are transforming produced water management, turning what was once a costly waste stream into a valuable resource. Our patented lithium extraction process is faster, more sustainable, and cost-effective than traditional mining, giving our partners a competitive edge in the growing lithium market.

This strategic opportunity allows you to leverage existing infrastructure to enter the lithium market efficiently, minimizing capital expenditures and unlocking new revenue streams. By partnering with Lithium Harvest, your company can lead in the clean energy transition while achieving long-term profitability and aligning with corporate sustainability objectives.

## Market Expansion & Growth Opportunities

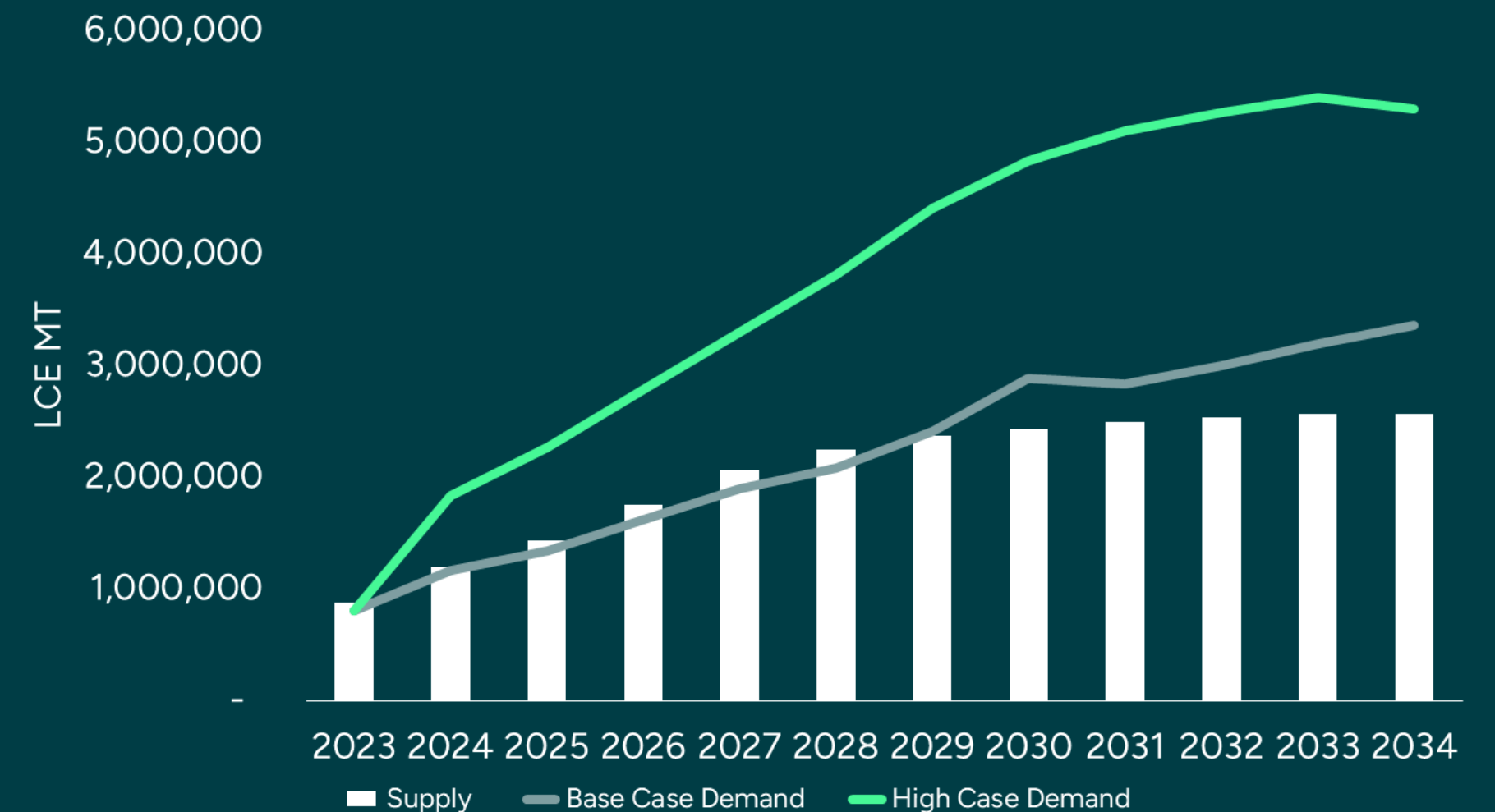
Entering the lithium supply chain unlocks high-growth sectors like electric vehicles (EVs), renewable energy storage, and advanced battery manufacturing. As demand for these technologies surges, Lithium Harvest's innovative extraction solution provides access to lithium - one of the most critical resources needed to meet future energy needs. With lithium demand projected to grow 3.5x by 2030 and potential supply shortages by 2029, this market offers significant growth opportunities for diversification, revenue expansion, and sustainability.

## 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.

## A Booming Lithium Market



Lithium demand is expected to grow 3.5x by 2030 and 6.5x by 2034.

## A Win-Win Strategy for the Oil & Lithium Industry

### Advantages for Oil & Gas Operators



**Waste to Profit**  
Transform wastewater into a lucrative asset



**Versatile Reuse Options**  
Reuse treated water for re-injection or beneficial reuse



**One of the World's Most Sustainable Lithium**  
Setting new global sustainability standards



**Competitive Pricing**  
The lowest cost of any lithium mining technology in the market



**Fast Deployment & Returns**  
A fast track to tap into the booming lithium market



**Hassle-Free Operation**  
We are operating the lithium extraction plant



**Fastest to Market**  
Rapidly converts oilfield wastewater into lithium compounds



**Rapid & Scalable Production**  
Rapid market delivery and adaptability to meet increasing demands



## Technology Benchmark



Lithium Harvest Solution



DLE from Brine



Solar Evaporation Brine Extraction



Hard Rock Mining

Feedstock	Produced water	Continental brine	Continental brine	Rock / spodumene
Project implementation time	12-15 months	5-7 years	13-15 years	8-10 years
Lithium carbonate production time	2 hours	2 hours	2-3 years	3-6 months
Lithium yield	>95%	80-95%	20-40%	6-7%
Average footprint per 1,000 mt LCE	1.4 acres	1.4 acres	65 acres	115 acres
System design	Modular and mobile	Mobile / stationary	Stationary	Stationary
Environmental impact	Minimal	Minimal	Soil- and water contamination	Soil- and water contamination
Water consumption per 1,000 mt LCE	20 million gallons	80 million gallons	550 million gallons	250 million gallons
CO <sub>2</sub> footprint per 1,000 mt LCE	Neutral	1.5 million kg	5 million kg	15 million kg
Average invested capital per 1,000 mt LCE	\$18 million	\$45 million	\$50 million	\$60 million
Average cost per metric ton	\$4,550	\$5,700	\$5,800	\$6,900

Source: Columbia University, IEA, ICMM.

### Our Innovation Surges Ahead of Competitors

At Lithium Harvest, our lithium extraction solution outpaces traditional methods and competing solutions by delivering one of the most cost-efficient and sustainable lithium extraction processes available today. Here is how we surge ahead:

- Unmatched Cost-Efficiency:** Unlike traditional mining or evaporation ponds, which are capital and resource-intensive, our solution offers a low-cost approach by transforming oilfield wastewater into valuable lithium compounds using existing infrastructure. With CapEx up to 70% lower and OpEx up to 35% lower than traditional mining methods, we significantly reduce operating expenses and eliminate the need for large-scale infrastructure investments, giving us a clear cost advantage over competitors.

- One of the Most Sustainable Lithium Solutions:** Our process significantly reduces the environmental footprint of lithium extraction by minimizing water usage and carbon footprint. Using produced water from oil and gas operations, we turn a waste stream into one of the most sustainable lithium sources on the market, aligning with the highest ESG standards.
- Fastest to Market:** Our solution accelerates lithium production timelines, enabling us to bring lithium compounds to market faster than traditional mining methods. Oil and gas companies can quickly capitalize on new revenue streams with shorter project development cycles.

By offering a cost-effective, environmentally responsible, and fast-to-market solution, Lithium Harvest ensures that you can stay ahead of the curve, meeting the demand for sustainable lithium while maximizing profitability.

## Who We Are

At Lithium Harvest, we lead the charge in sustainable lithium extraction, supplying high-performance lithium compounds to the rapidly expanding electric vehicle (EV) and battery markets. As a pure-play lithium company, we are committed to delivering fast-to-market, environmentally responsible products that meet the growing global demand.

Using advanced, innovative technologies and sustainable mining practices, we extract lithium from oilfield wastewater – turning waste into a valuable resource. Our patented process allows us to produce lithium compounds quickly, cost-effectively, and with minimal environmental impact. This innovative approach enables us to produce one of the world’s most sustainable lithium, accelerating the green energy transition.

## Unlock the Full Potential of Your Produced Water

Partnering with Lithium Harvest means leveraging our proven expertise to turn your produced water into a valuable resource, positioning your company as a leader in the green energy transition.

- **Proven Expertise in Water Management:** With 20+ years in industrial wastewater treatment, Lithium Harvest delivers tailored solutions for efficient lithium extraction, ensuring maximum recovery while minimizing OpEx and CapEx.
- **Sustainable & Profitable Solutions:** Our approach balances sustainability with profitability, helping you meet ESG goals while unlocking new revenue streams.
- **End-to-End Solutions:** We manage everything from design to operation with our turnkey Design-Build-Own-Operate (DBOO) model, offering a hassle-free experience.
- **Local Manufacturing & Community Growth:** Our onsite extraction and refining create local jobs, support energy security, and foster community growth.
- **Future-Proof Partnership:** Global lithium demand is surging and is expected to grow for decades, fueled by the global shift toward clean energy. Partnering with Lithium Harvest places you at the forefront of this expansion, with sustainable, carbon-neutral extraction.
- **Secure a Competitive Edge in the Lithium Market:** Partnering with Lithium Harvest gives you a competitive edge through one of the most sustainable and cost-effective extraction technologies available. Our solution ensures fast market access and scalability to meet the growing lithium demand.
- **Rapid Market Access Without Operational Risk:** We minimize your time to market and operational risk, allowing you to focus on core business while capitalizing on the growing lithium and battery sectors.

## Planned Projects to Elevate U.S. Lithium Output

	Facility Details – ND 1	Facility Details – ND 2
Location	North Dakota	North Dakota
Initial Capacity	400 mt	600 mt
Maximum Capacity	1,300 mt	1,500 mt
Footprint	41,000 sq ft	62,000 sq ft
Construction Start	H2/2024	H2/2024
Expected Production Start	H2/2025	H2/2025

- **Co-Located Facilities:** Our lithium extraction facilities are co-located with the produced water collection facilities. On-site lithium extraction and refining optimize operational efficiency and minimize environmental impact.
- **Carbon Neutral Commitment:** We are dedicated to carbon neutrality and significantly reducing our environmental footprint through innovative practices.
- **Pioneering Technology:** Our facilities will be the world’s first large-scale facilities to produce lithium from oilfield wastewater utilizing our patented lithium extraction solution.

## Profit-Boosting Business Scenarios

Explore tailored setups with Lithium Harvest’s turnkey lithium extraction from produced water solution - where we operate, you profit, and lead in environmental stewardship. We invite you to meet with our team to explore business cases customized to your infrastructure, aligning with your corporate growth strategy.

Together, we can introduce new revenue streams and build a strong business case for joint success in this emerging market.

	Form a Joint Venture with Lithium Harvest	Turn Your Produced Water into Profit
Benefits	A joint venture that generates profit and establishes your company as a pioneer in the sustainable lithium market, driving both profitability and environmental leadership.	You earn royalties from the produced water while boosting your ESG profile by contributing to sustainable water and resource management from lithium extraction.



# Drive growth with lithium extraction



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