

# Transforming produced water



# Sustainable lithium extraction

Welcome to Lithium Harvest: Revolutionize your wastewater management with our produced water treatment technology for direct lithium extraction.

Unlock the untapped potential of produced water with Lithium Harvest's patented lithium extraction solution. Our revolutionary process efficiently extracts high-value minerals, including lithium, from oilfield wastewater, transforming waste into profit in a cost-effective and environmentally sustainable way.

Join us in revolutionizing how the oil and gas industry handles produced water. Our solution is not just about sustainability - it is about profitability and staying ahead of market trends. Contact us today to explore unlocking new revenue while boosting your environmental credentials.



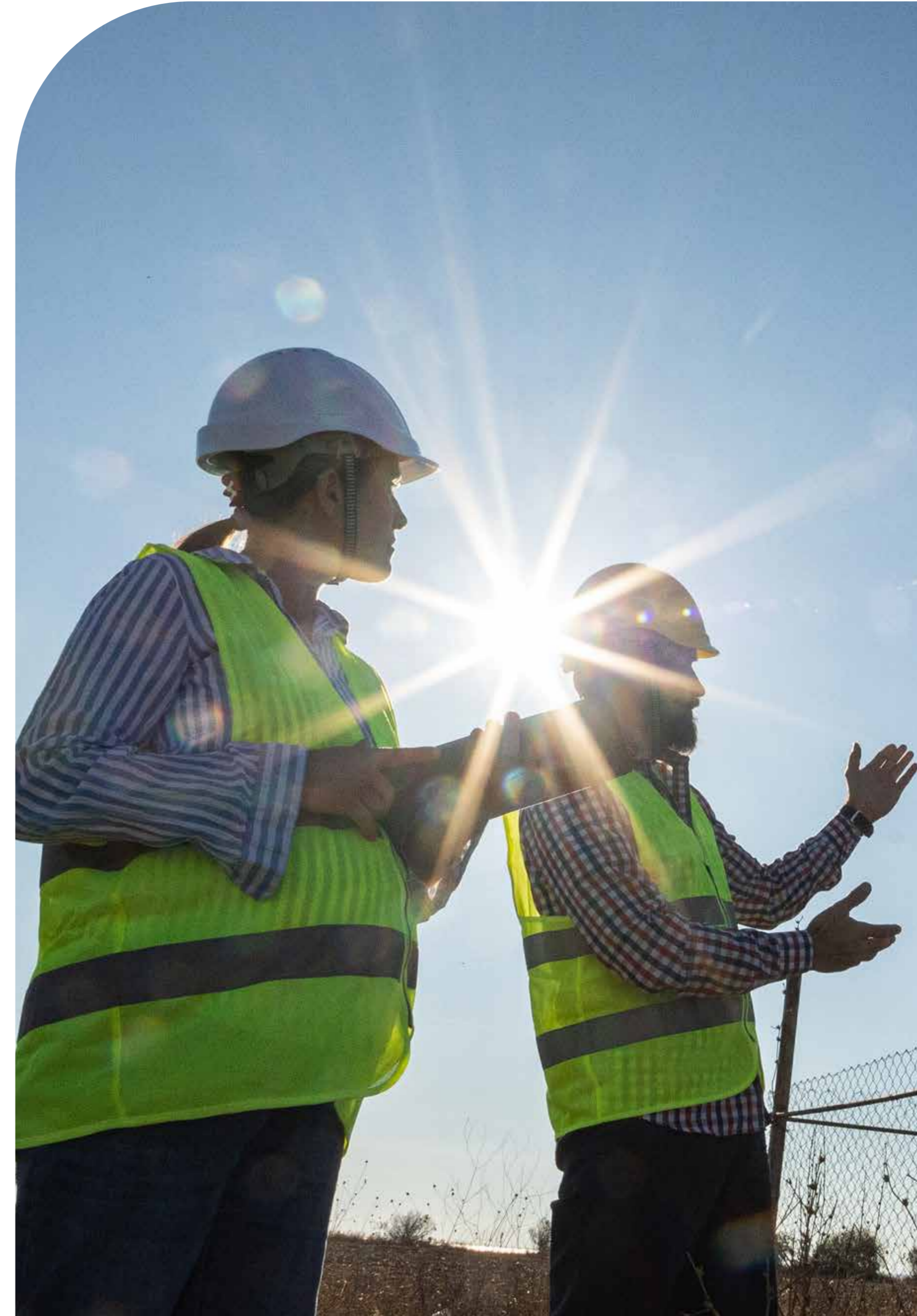
**New Revenue Stream:** Turn produced water into revenue by tapping into the booming lithium market



**Sustainability Advantage:** Demonstrate your commitment to sustainable water management, earning the trust and support of stakeholders



**Proven Expertise & Tech:** Leverage our extensive 20-year water treatment experience with strong technology partnerships



We operate,  
you profit



Lithium  
Harvest

# From waste to value



## Seamless Integration, Maximum Profitability

We handle the plant, so you stay focused on your business while we turn produced water into profit.

- **Strategic Co-location:** Our decentralized, co-located facilities enhance synergy, reduce environmental impact, and streamline lithium extraction directly at your site, enabling efficient, flexible growth.
- **Scalable & Modular:** Built to adapt to any scale, our modular solution easily manages varying volumes and lithium concentrations, maximizing output and efficiency.
- **Seamless Integration & Operation:** Our solution deploys rapidly with minimal setup, fitting seamlessly into your existing infrastructure without disrupting core operations. Ready in 12-18 months, it fits a 20,000 bbl./d facility within 1.4 acres - no extra land or pipelines required. Control valves allow bypass during low lithium concentration or maintenance, ensuring cost-effective, uninterrupted flow for your operations.
- **Turnkey, End-to-End Solutions:** Our end-to-end, Design-Build-Own-Operate (DBOO) model covers everything from design to operation, ensuring smooth integration and immediate revenue so you can focus on your core business.



>95%

Lithium extracted



>90%

Water recycled



Neutral

CO<sub>2</sub> footprint

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.

# Turning waste into sustainability

At Lithium Harvest, we are committed to driving both profitability and environmental responsibility. Our innovative solution empowers carbon-neutral lithium operations, positioning us as a key player in the global lithium extraction industry.

For every 1,000 metric tons of lithium carbonate produced, our solution can save up to 15 million kg of CO<sub>2</sub> emissions compared to traditional mining - equivalent to the annual emissions of approximately 1,087 individuals - and 500 million gallons of water, enough to meet the annual water usage of nearly 4,566 families. Partnering with us means you are optimizing produced water management, enhancing resource efficiency, and reducing the environmental footprint of lithium mining.

By integrating our sustainable lithium extraction solution into your operations, we can reduce battery lifecycle emissions by an impressive 47%, further elevating the environmental benefits for the EV and energy storage sectors.

Our approach goes beyond profitability - it seamlessly aligns with your ESG goals, ensuring compliance with the highest environmental standards. With Lithium Harvest, you will unlock new revenue streams while making a meaningful contribution to the green energy transition - proving that sustainability and profitability can go hand-in-hand.



Up to 99%  
smaller footprint



>90%  
water recycled



Up to 96%  
lower water consumption



500,000  
gallons of freshwater saved



15,000 kg  
of CO<sub>2</sub> saved



Neutral  
CO<sub>2</sub> footprint

“



*The fight against climate change is one of the greatest global challenges of the 21st century. The acceleration of the green energy transition highlights the need for sustainable lithium extraction.*

Sune Mathiesen  
Chairman & CEO

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# Why Lithium Harvest?

Unlock the full potential of your produced water with Lithium Harvest's comprehensive package.

Partnering with Lithium Harvest means more than adopting cutting-edge technology - it is about leveraging our proven expertise and seamless, sustainable solutions to transform your produced water into a valuable resource while positioning your company as a leader in the green energy transition.

 Proven Expertise in Water Management

 Sustainable and Profitable Solutions

 Local Manufacturing & Community Growth

 Future-Proof Partnership

 Secure a Competitive Edge in the Lithium Market

 Rapid Market Access Without Operational Risk

## Proven Expertise in Water Management

With over 20 years of experience in industrial wastewater treatment, Lithium Harvest brings unmatched expertise to managing the complexities of produced water. Our specialized solutions are tailored to the unique chemistry of your water source, ensuring maximum lithium recovery while minimizing both OpEx and CapEx.

## Sustainable and Profitable Solutions

Our turnkey Design-Build-Own-Operate (DBOO) model combines sustainability and profitability. We handle the entire process - from design and construction to operation - ensuring a seamless, hassle-free experience. With a rapid deployment timeline of just 12-18 months, our scalable approach is ready to adapt to your needs as the lithium market expands. Tailored business models maximize returns and sustainability while we handle the technical complexities.

## Local Manufacturing & Community Growth

We prioritize localized manufacturing, creating jobs, and fostering growth within our communities. Our solutions support domestic energy security and contribute to building resilient local economies, helping accelerate the green energy transition.

## Future-Proof Partnership

As global demand for lithium skyrockets with the growth of electric vehicles and energy storage, partnering with Lithium Harvest positions your company at the forefront of this market expansion. Our carbon-neutral extraction technology ensures your business stays competitive while meeting the evolving demands of the energy landscape.

## Secure a Competitive Edge in the Lithium Market

By partnering with Lithium Harvest, you gain a competitive edge in the lithium market through one of the most sustainable and cost-effective extraction technologies available. Our solution is designed for fast market access and scalability to meet the growing lithium demand. Coupled with a clear sales strategy for offtake markets, this partnership will help us capitalize on lithium's ever-increasing demand.

## Rapid Market Access Without Operational Risk

Lithium Harvest offers rapid access to the lithium market without needing in-house expertise. We minimize your time to market and operational risk, allowing you to focus on your core business while expanding into the high-growth lithium and battery sectors.

Learn more on our website: [www.lithiumharvest.com](http://www.lithiumharvest.com)

# Turn Your Wastewater Into a Revenue Stream



## 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.

## Competitive Edge in a Booming Lithium Market

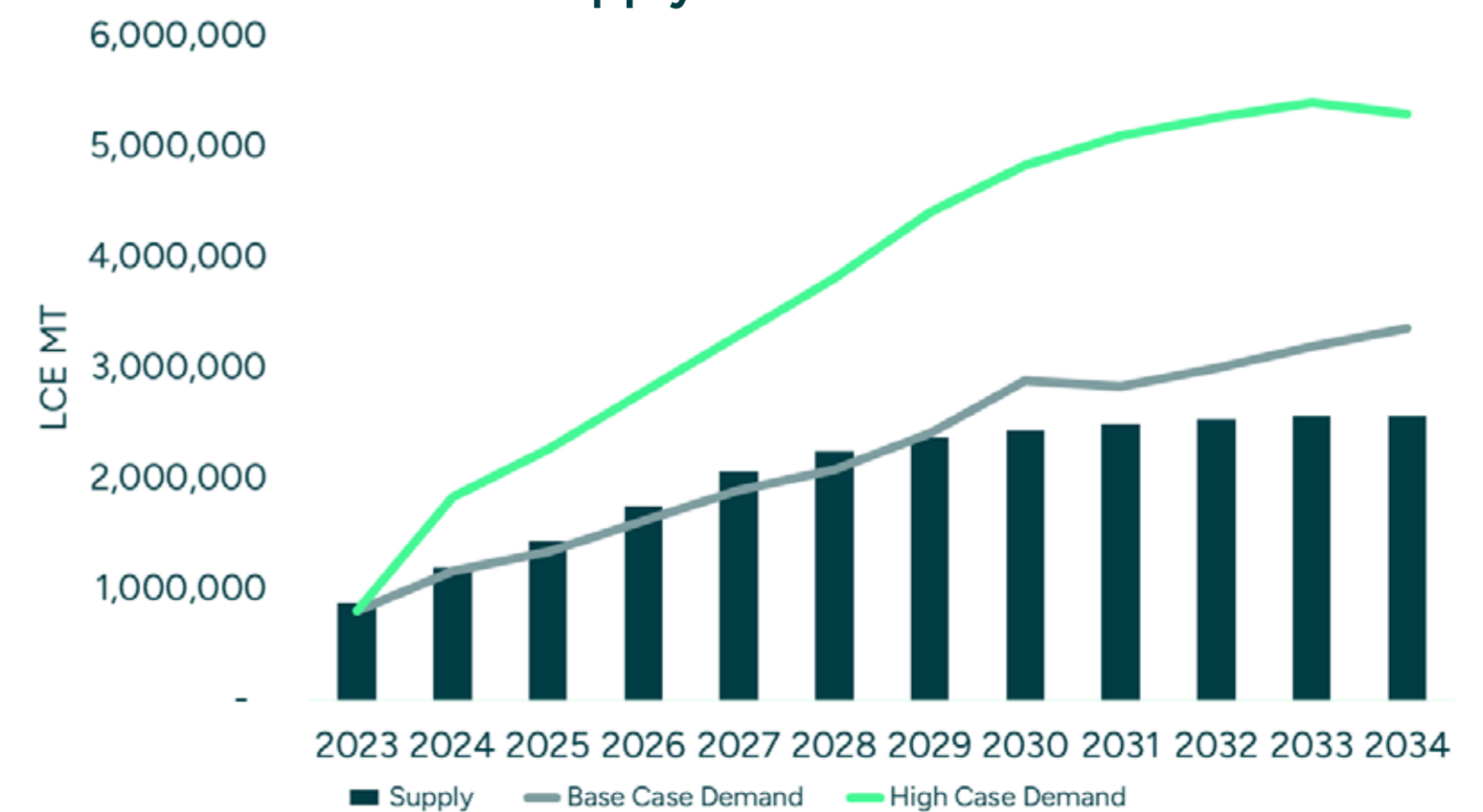
Lithium Harvest's innovative extraction solution positions you ahead of the competition:

- **Cost-Efficiency:** Leverage existing infrastructure to transform oilfield wastewater into valuable lithium, cutting costs and minimizing investments.
- **Sustainability:** Our process reduces water usage and carbon emissions, making it one of the most sustainable lithium extraction methods available.
- **Speed to Market:** Rapid production timelines enable new revenue streams in just 12-18 months.

### Lithium Market Growth:

With demand set to grow 3.5x by 2030 and 6.5x by 2034, a supply shortfall is looming in 2029. Partner with Lithium Harvest to capitalize on this opportunity and stay ahead in a fast-evolving industry.

## Lithium Supply-Demand Forecast



Source: Benchmark Minerals, July 2024.



# Empowering the green transition

**Diversify your operations, drive profitability, and lead the green energy transition with Lithium Harvest.**

As global demand for lithium skyrockets, Lithium Harvest offers you a unique opportunity to diversify into the lithium market with a competitive edge. Traditional extraction methods are struggling to keep up. These processes are slow, costly, and harmful to the environment - consuming massive amounts of water and energy while producing significant carbon emissions. You already know the pressure is growing to adapt to these changing times, especially with sustainability regulations tightening.

But here is where your operations hold untapped potential. Produced water, a byproduct of your oilfield operations, contains valuable lithium and other mineral reserves that can be extracted. With Lithium Harvest's advanced technology, what was once a costly waste can now be transformed into a revenue stream. Leverage your existing oil production infrastructure to unlock the value of produced water, tapping into critical mineral resources without disrupting your core business. Our innovative solution ensures profitability, even with low-content lithium resources, offering you a low-risk, high-reward strategy for the future.

We are ready to partner with oil companies and midstream providers, offering customized business models designed for joint growth. By partnering with Lithium Harvest, you will solve produced water management challenges and position your business as a forward-thinking energy leader aligned with the booming lithium market. Shape a sustainable, profitable future with Lithium Harvest. Our expertise ensures a seamless integration of lithium extraction into your operations - paving the way for a greener, more prosperous tomorrow.

## 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

#### 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.

### Turn Your Produced Water into Profit

You earn royalties from the produced water while boosting your ESG profile by contributing to sustainable water and resource management from lithium extraction.





## Turn your wastewater into a revenue stream

- **Waste to Profit:** Transform your wastewater into a lucrative asset with our innovative lithium extraction technology from produced water.
- **Versatile Reuse Options:** Our solution enables the reuse of treated water for various civil purposes, such as irrigation, freshwater supply, or re-injection – unlocking dual benefits.
- **Fast Deployment & Immediate Returns:** With our solution, there is no need for lengthy building, installation, or permitting processes – a fast track to tap into the booming lithium market.
- **Hassle-Free Experience:** We are operating the lithium extraction plant, integrating seamlessly with your existing infrastructure without any disruption - easy, right?



# Contact us



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