Sustainable Lithium Extraction





Cautionary Statement

Forward-Looking Statements

This presentation contains "forward-looking statements" within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended, including without limitation the financial model and business case on slides 37 and 24, respectively. Although the forward-looking statements in this presentation reflect the good faith judgment of management, forward-looking statements are inherently subject to known and unknown risks and uncertainties that may cause actual results to be materially different from those discussed in these forward-looking statements. Readers are urged to carefully review and consider the various disclosures made by us in our reports filed with the Securities and Exchange Commission, including the risk factors that attempt to advise interested parties of the risks that may affect our business, financial condition, results of operation and cash flows.

If one or more of these risks or uncertainties materialize, or if the underlying assumptions prove incorrect, our actual results may vary materially from those expected or projected. Readers are urged not to place undue reliance on these forward-looking statements, which speak only as of the date of this presentation. We assume no obligation to update any forward-looking statements in order to reflect any event or circumstance that may arise after the date of this presentation.

Company Introduction

Company Overview

Company:	Sustainable Projects Group Inc.
Head Office:	Houston, TX
Technology Center:	Aalborg, Denmark
Ticker:	OTC: SPGX
Ticker: Shares Outstanding:	OTC: SPGX 296M



Our Purpose

We Turn Waste into High-Value Minerals

Our **patented technology** transforms oil & gas wastewater (produced water) into high-value minerals.

We produce high-quality battery-grade lithium compounds in just hours, **saving more than 500,000 gallons of fresh water and 15,000 kg of CO**₂ per metric ton of lithium carbonate produced.

Our Mission

We care about our common future and continued economic growth. Our unique technology enables the green energy transition and addresses the shortage of critical metals for energy storage.

Our Vision

We have committed ourselves to the green energy transition. We are here to produce critical metals for energy storage in a more sustainable and efficient way.

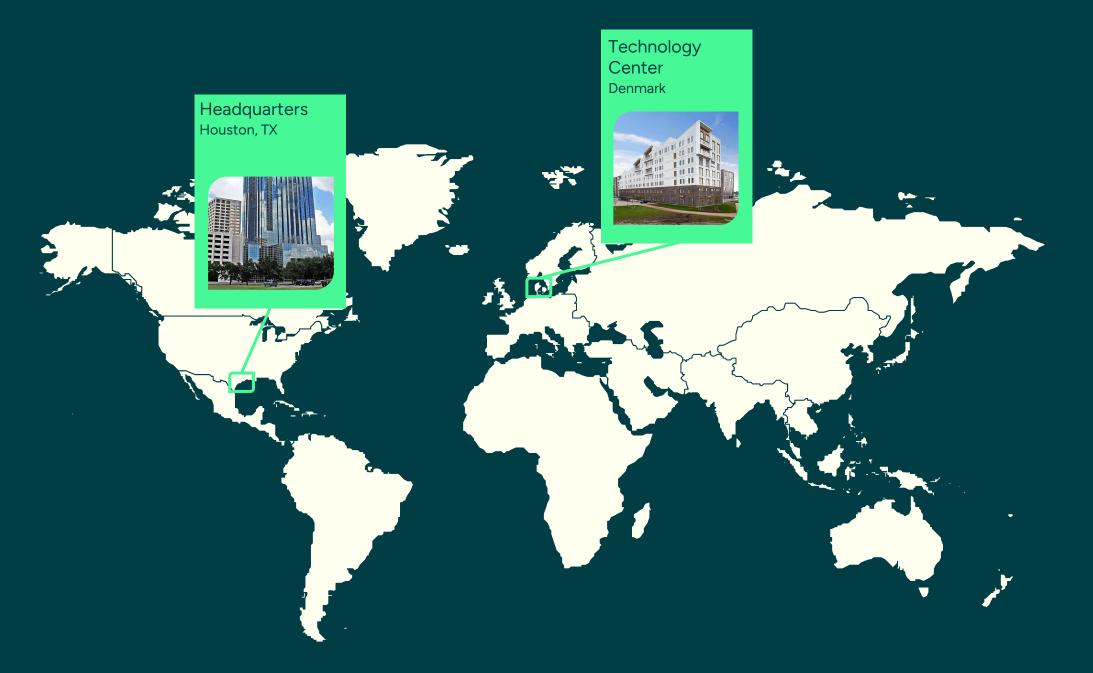


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We believe that our patented technology is the most sustainable, fastest to market, and lowest cost of any lithium mining technology available today.

Sune Mathiesen Chairman & CEO







Our History

Lithium Harvest was founded by Sune Mathiesen and Paw Juul in 2020 out of the need for a more sustainable and faster way to produce lithium battery compounds.

The idea for our patented technology was, however, born already in 2012 after conducting a produced water treatment pilot trial with a leading oil and gas company. Produced water typically contains soluble and non-soluble oil/organics, suspended solids, dissolved solids, and various chemicals used in the production process. However, we learned that produced water also contains valuable minerals that can be extracted.

Our management has more than 20 years of water treatment experience. They have developed several proprietary water treatment technologies and a unique fully automated control algorithm that has been installed in more than 400 large-scale industrial water treatment systems.





Experienced Management Team



Sune Mathiesen, Chairman & CEO

Prior to co-founding Lithium Harvest, Mr. Mathiesen served as CEO, President, and Director of LiqTech International, a Nasdaq listed company, since 2014. Mr. Mathiesen has also served as CEO and Director of Provital, and Country Manager of Broen Lab and GPA Flowsystems.

Mr. Mathiesen has a solid board and executive management background in private and public companies. Further, he has extensive experience as an investor in early-stage startups.

Lithium Harvest



Stefan Muehlbauer CFO

Mr Muehlbauer joined the Company in 2017 as CFO and was appointed CEO in 2018. as well as serving on the company's board of directors. Previously Mr. Muehlbauer has served as CEO of Arma Communications Inc., a business development and marketing agency, since 2013. Prior to joining the Company, Mr. Muehlbauer held positions with several leading investment banks in Europe, where he focused on the biotech, pharmaceuticals, and green chemistry sectors. As the Chief Operating Officer at Silvia Quandt & Cie AG, he was responsible for building up the institution's research and corporate finance activities in these areas.



Paw Juul, CTO & Director

Prior to co-founding Lithium Harvest, Mr. Juul served as CEO of LiqTech Water, a subsidiary of LiqTech International, a Nasdaq-listed company, since 2014. Mr. Juul co-founded Provital in 2009 and served as CTO until 2014.

Mr. Juul has extensive experience in new business development, specifically in the water treatment industry.



+20 Years Executive management experience



+20 Years Water treatment experience



+400 Successful water treatment systems installed

The Environmental Challenge

Our planet is running



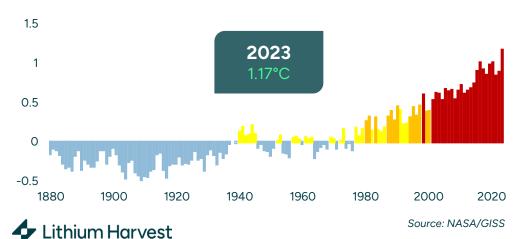
low on battery

The Environmental Challenge

Greenhouse gases (GHG) trap heat and make the planet warmer. Human activities are responsible for almost all atmospheric GHG increases over the last 150 years.

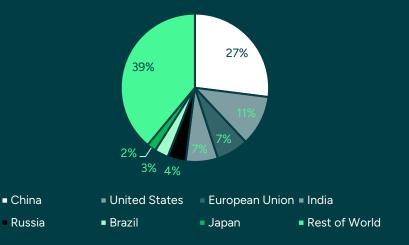
Transportation accounts for 28% of U.S. GHG emissions and is the single largest contributor to total GHG emissions.

In 2021, global CO_2 emissions reached a record high of 37.12 gigatons and the world is on track to emit 42 gigatons in 2030.

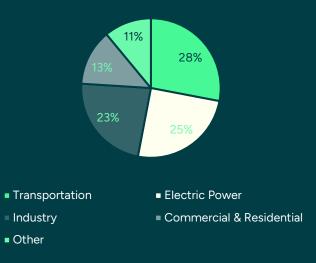


Global Land-Ocean Temperature Index

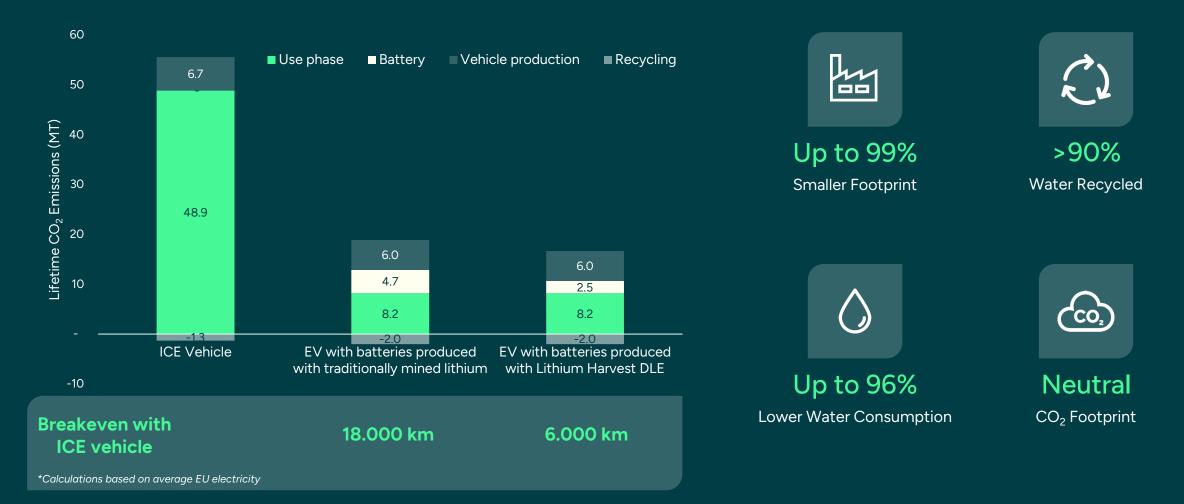
Global GHG Emissions by Country in 2021



U.S. GHG Emissions in 2021



How EVs Reduce the Environmental Impact of Transportation - And How We Make It Even Cleaner







Lithium (Li)

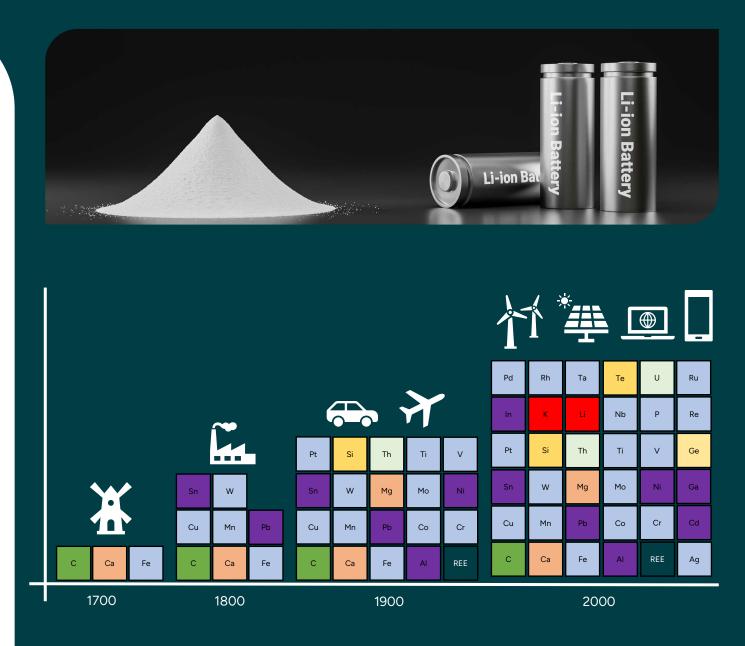
Lithium is the lightest metal on Earth and can be extracted from ore or brines.

Lithium constitutes about 0.002 percent of the Earth's crust, making it the 25th most abundant element. Lithium does not naturally occur in elemental form due to its high reactivity. The largest concentrations of lithium can be found in granitic pegmatites and continental brines.

Lithium is Critical for the Green Energy Transition

Clean energy technologies require significantly more minerals than their fossil fuel-based counterparts.

The ability to store energy is crucial for the green energy transition. The combination of low weight and high energy storage density makes lithium the perfect material for batteries.



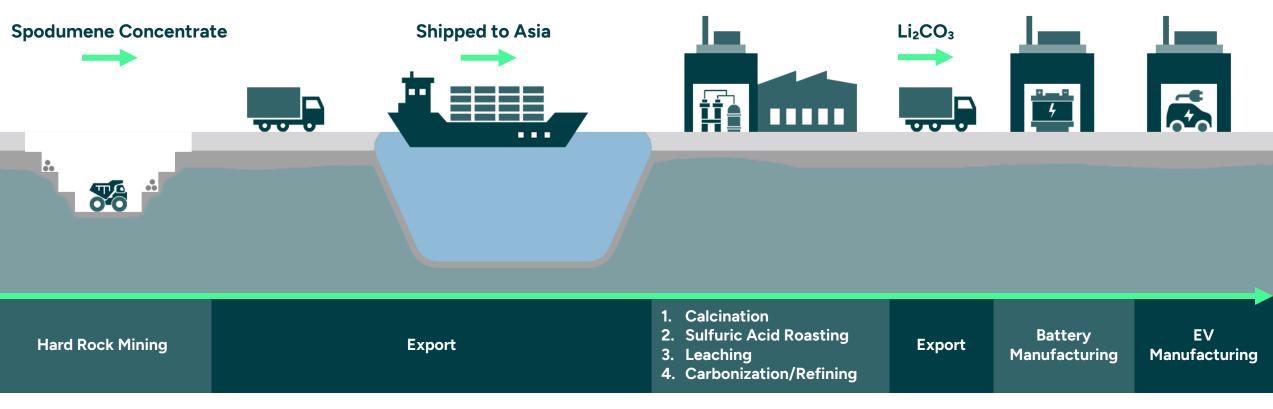


We Turn Wastewater Into High Value Minerals



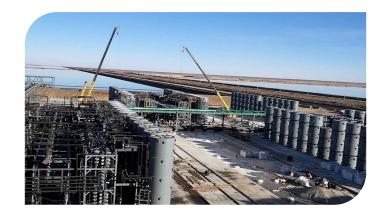
Traditional Production Methods - Hard Rock Mining

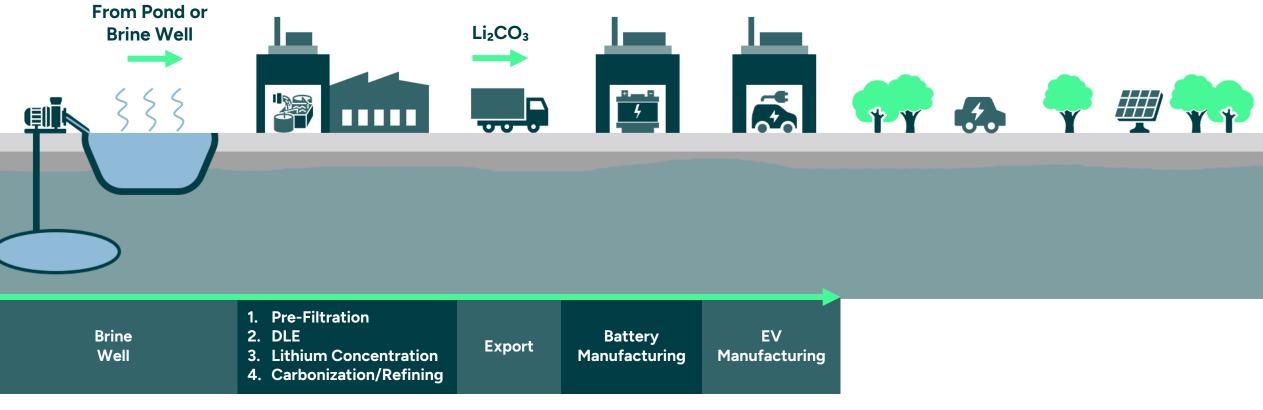




Traditional Production Methods - Brine Solar Evaporation **Brine Concentrated Brine** Li₂CO₃ Ę Brine Lime **Evaporation** Carbonization/ Battery ΕV Pre-Export Well Pond **Refining Plant** Manufacturing Manufacturing Plant Pond

Production Methods - Direct Lithium Extraction (DLE)





Lithium Production Technologies



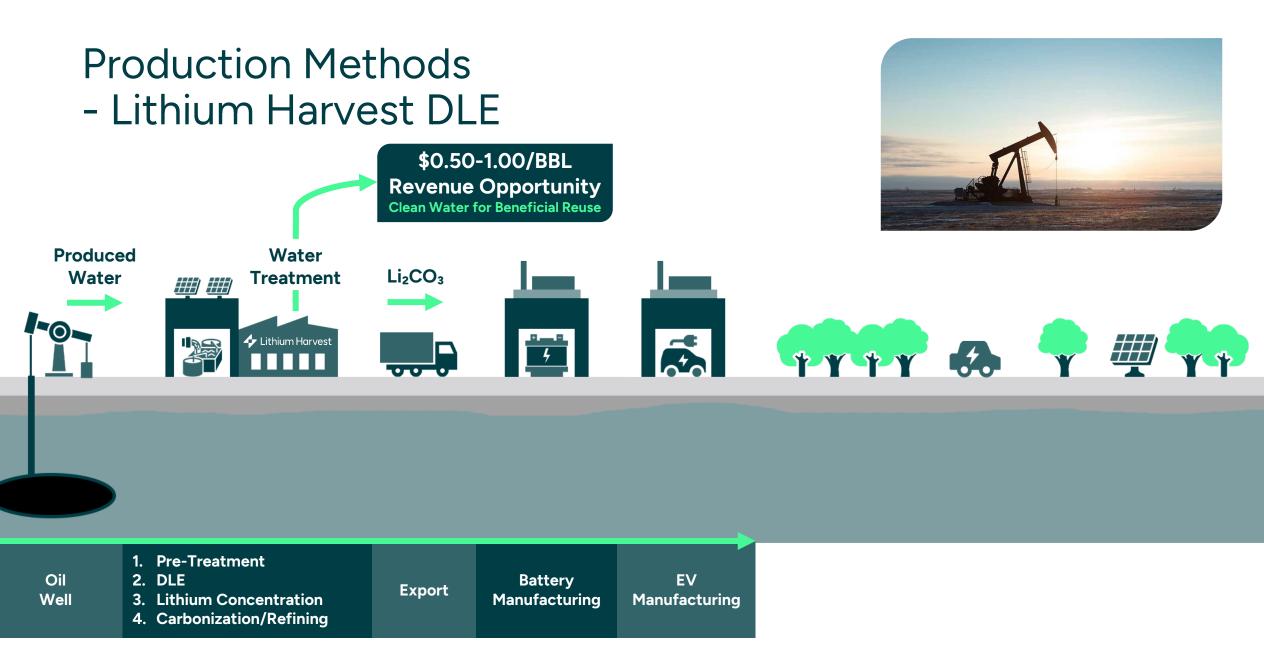




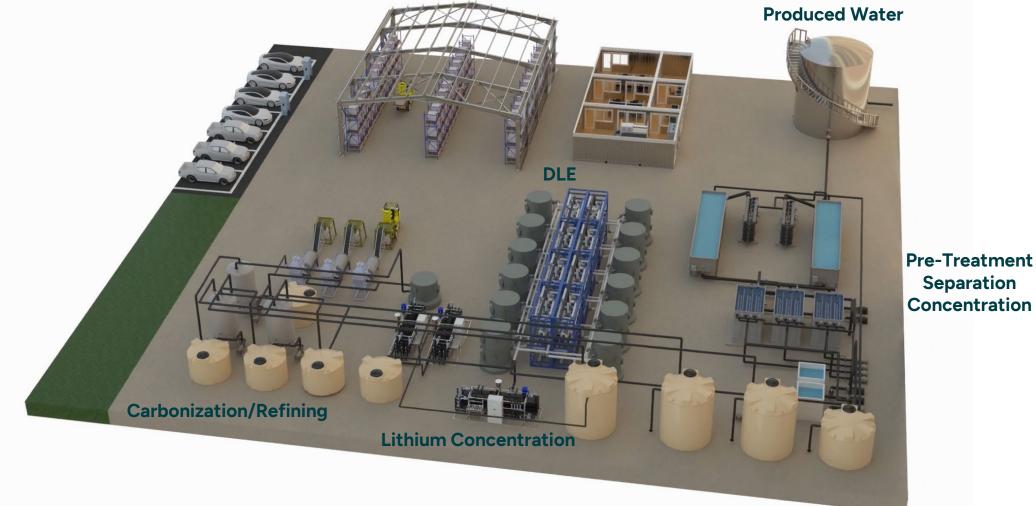
	DLE from Brine	Solar Evaporation Brine Extraction	Hard Rock Mining
Project implementation time	5-7 years	13-15 years	8-10 years
Lithium carbonate production time	2 hours	2-3 years	3-6 months
Lithium yield	80-95%	20-40%	6-7%
Average footprint per 1,000 mt LCE	1.4 acres	65 acres	115 acres
System design	Mobile / Stationary	Stationary	Stationary
Environmental impact	Minimal	Soil and water contamination	Soil and water contamination
Water consumption per 1,000 mt LCE	80 million gallons	550 million gallons	250 million gallons
CO ₂ footprint per 1,000 mt LCE	1.5 million kg	5 million kg	15 million kg
Average invested capital per 1,000 mt LCE	\$45 million	\$50 million	\$60 million
Average cost per metric ton	\$5,700	\$5,800	\$6,900



*1,000 mt LCE is equivalent to 15,400 PCU Source: Columbia University, IEA, ICMM



Our Technology - Modular and Mobile



Direct Lithium Extraction - But Different

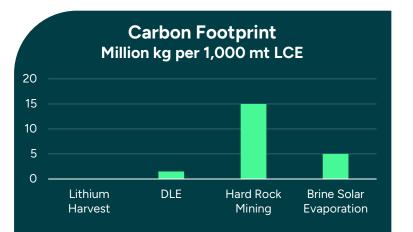
Our patented technology is Direct Lithium Extraction (DLE) based on adsorption technology. Using wastewater from oil & gas production as our feedstock, allows us to bring lithium operations online much quicker and at a lower cost than any other DLE technology in the market.



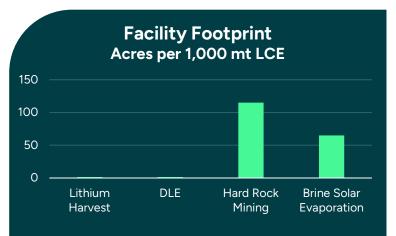
	Lithium Harvest Technology	DLE from Brine	Lithium Harvest Advantage
Project implementation time	12-15 months	5-7 years	No drilling permits needed
Lithium Feedstock	Produced water	Continental Brine / Geothermal	No asset acquisition
System design	Modular and mobile	Mobile / Stationary	Unique modular design
Water consumption	20 million gallons	80 million gallons	Water recycled for secondary reuse
CO ₂ footprint	Neutral	1.5 million kg	Offsets CO ₂ footprint from wastewater
Average invested capital per 1,000 mt LCE	\$18 million	\$45 million	No land acquisition
Average cost per metric ton	\$4,550	\$5,700	Low Energy Technology



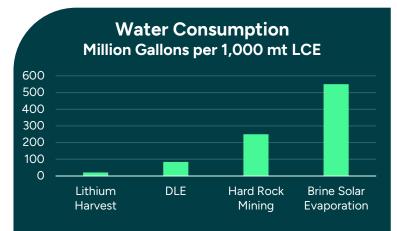
Technology Benchmark - Environmental Impact



- No transportation to a secondary site for refining
- Uses solar power as a primary energy source
- Low pressure/low energy technology
- Offsetting carbon savings from water handling



- Co-located with produced water treatment facility
- Modular and compact facility
- No ponds and pipelines
- No additional impact on the environment and wildlife



- >90% of water re-used
- No freshwater consumption
- No pollution of water resources
- No additional waste product



Technology Benchmark - Business Case



- No acquisition of land
- No acquisition of drilling rights
- Modular plant design



- Up to 95% yield
- Low energy facility
- Fully automated facility
- On-site production and refining
- Fixed price feedstock



- No acquisition of land and drilling rights
- No drilling permits
- Modular plant design
- Scalable capacity



A Win-Win Strategy for the Oil and Lithium Industry

Advantages for Oil & Gas Operators

Advantages for the Battery Value Chain



Waste to Profit Transform wastewater into a lucrative asset



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



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 Experience We are operating the lithium extraction plant



Fastest to Market Rapidly converts oilfield wastewater into lithium compounds

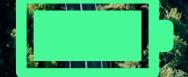


Rapid & Scalable Production Rapid market delivery and adaptability to meet increasing demands



We are helping our

Sally.



planet back to 100%

The Lithium Market

The World is Facing a Lithium Shortage

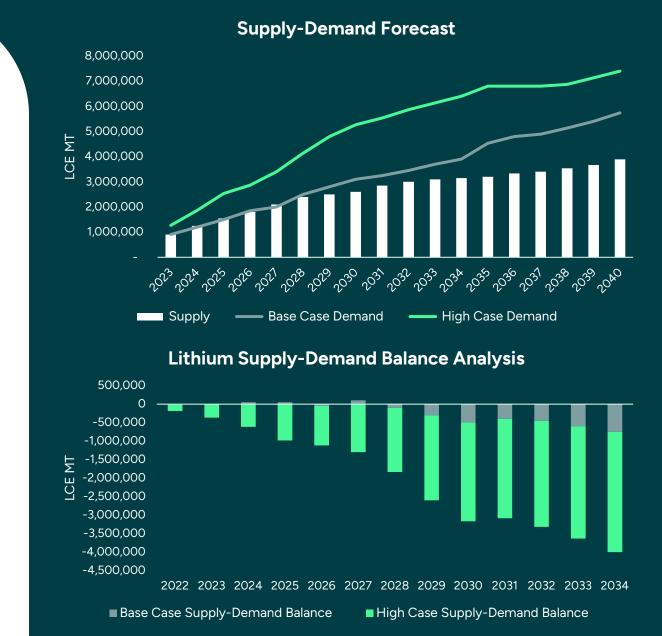
The green energy transition has already created a surge in demand for lithium, and the demand is expected to further increase exponentially as the world continues the decarbonization and electrification of economies.

Lithium Demand is Set to Quadruple Between 2022 and 2030

The acceleration of EVs and batteries needed for energy storage is driving a substantial increase in demand for lithium. The demand doubled between 2019 and 2021 and is set to further quadruple between 2022 and 2030 with rising focus and demand on sustainable lithium products.

IEA Predicts Lithium Shortage by 2025

The International Energy Agency even predicts a lithium shortage by 2025. Lithium supply faces challenges from surging demand and because production is concentrated in a few countries. Traditional lithium extraction from ore and brine requires large amounts of water, and over half of today's production is in areas with high water stress, which makes authorities reluctant to allow new lithium operations.



Lithium Harvest

Source: Benchmark Minerals Intelligence

The World Needs More Sustainable Lithium

Sustainability is Now a Critical Metric for Lithium Supply Agreements

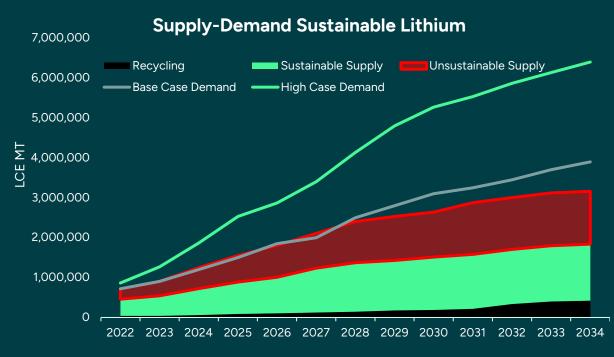
Sustainability in lithium extraction has become a crucial business strategy and environmental imperative. As sustainability becomes a key metric in supply agreements, the widening demand-supply gap for sustainable lithium underscores the urgency for increased production and innovative extraction methods.

The Imperative for Sustainable Lithium: A Global Necessity

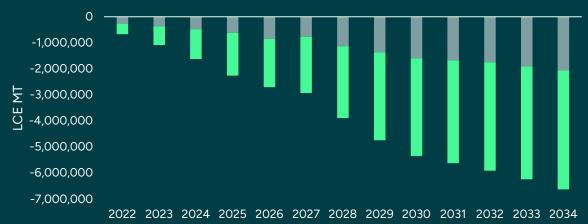
- Environmental Concerns: Traditional mining methods, such as open-pit mines and brine evaporation, pose serious environmental threats.
- Sustainable Shift: The industry and governments are pursuing sustainable lithium extraction techniques to mitigate these impacts.

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- Sustainability as a Metric: Major EV and tech companies prioritize responsibly sourced lithium, influencing supply agreements.
- Strategic Advantage: Companies capable of supplying sustainable lithium are setting the pace for a greener future and carving out a competitive edge in a market at the cusp of transformation.



Sustainable Lithium Supply-Demand Balance Analysis



■ Base Case Sustainable Supply-Demand Balance ■ High Case Sustainable Supply Demand Balance

The Lithium Market

Geography

Today, about 90% of all lithium is produced in Australia, Chile, China, and Argentina. Australia is the largest lithium producer, making up about 40% of all lithium in 2023. However, most of the ore from Australia is processed in China.

Lithium Sources

In 2023, about 60% of lithium came from ore mining and 39% from brine extraction. Put simply, lithium from Australia comes from ore mining, while in Chile and Argentina, lithium comes from continental brines.

U.S. Production

U.S. lithium production is down from 27% of the global output in 1996 to less than 1% in 2023. As highlighted in the 2022 Inflation Reduction Act, it's critical for the U.S. to become selfsufficient with lithium.

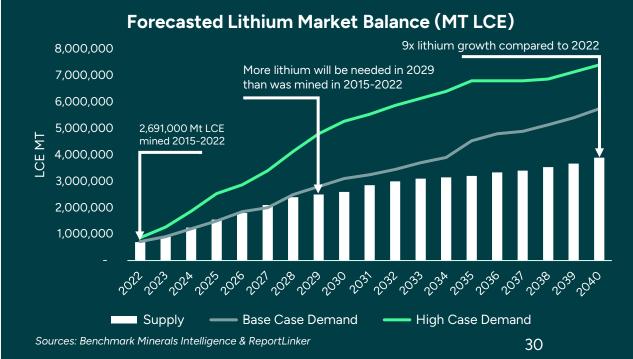
End-Use Markets

The increased adoption of EVs is driving the current lithium demand, with 85% of the output in 2023. However, lithium is used in many end markets, including batteries for consumer electronics and energy storage, ceramics and glass, lubricating greases, air treatment, polymer production, and casting powder.

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Lithium Production Concentration





Rapid Growth of U.S. Demand and Battery Manufacturing

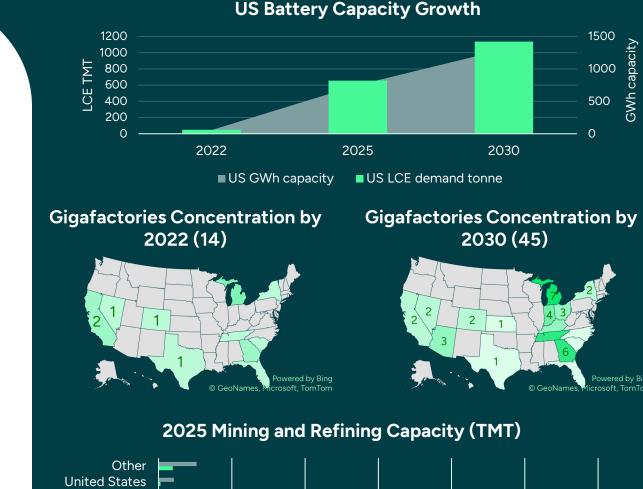
The Inflation Reduction Act significantly accelerates EV supply chain development in the U.S.

Total U.S. battery manufacturing capacity is expected to reach 750 GWh in 2025 and over 1300 GWh by 2030, **up 13x compared to current near 100 GWh production.**

The growing number of EV battery manufacturers tightens competition for local raw materials supply. **By 2025, the U.S. demand is projected to be 10x higher than the planned refining capacity.**

It's important to identify lithium resources in the U.S. so that our supply does not rely on single companies or countries in a way that makes us subject to economic or political manipulation.

Gail Mahood Professor of Geological Sciences, Stanford University





💠 Lithium Harvest

Sources: Benchmark Minerals Intelligence and Bloomberg

Lithium Price

The Main Drivers Behind Price Volatility in 2022-2023 Have Been:

- Electric Vehicle (EV) Sales Trends: 33% YoY in 2023, below the 65% in 2022 but still positive.
- Inventory Adjustments: Destocking within the battery materials sector.
- Competitive Dynamics: The emergence of a price war led by CATL impacting market pricing strategies.
- Market Sensitivities: Notable sensitivity within the demand/supply balance, influencing market stability.

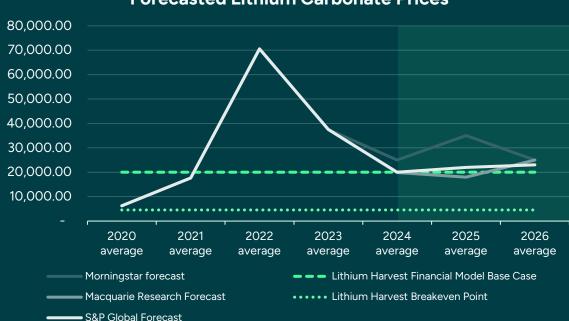
Market Outlook:

Lithium Harvest

- Near-Term Supply-Demand Challenges: Anticipated negative supplydemand balance from 2027, extending over the following two decades.
- Pre-2027 Lithium Availability Concerns: Potential for a lithium shortage before 2027, exacerbated by rising production costs and project delays amid current price settings and market conditions.
- Domestic Supply and Demand Dynamics: Increasing demand for domestic lithium and battery manufacturing capacity outpaces the current supply of domestic raw materials for giga-factories.
- Sustainability-Driven Demand: Growing demand for sustainably sourced lithium from businesses and governments.
- Lithium Price Projections: Lithium prices are forecasted to stabilize at \$20,000 to \$24,000 in the second half of 2024.

$\begin{array}{c} 90,000.00\\ 80,000.00\\ 70,000.00\\ 60,000.00\\ 50,000.00\\ 40,000.00\\ 30,000.00\\ 20,000.00\\ 10,000.00\\ \end{array}$

Historical Lithium Carbonate Prices



Forecasted Lithium Carbonate Prices

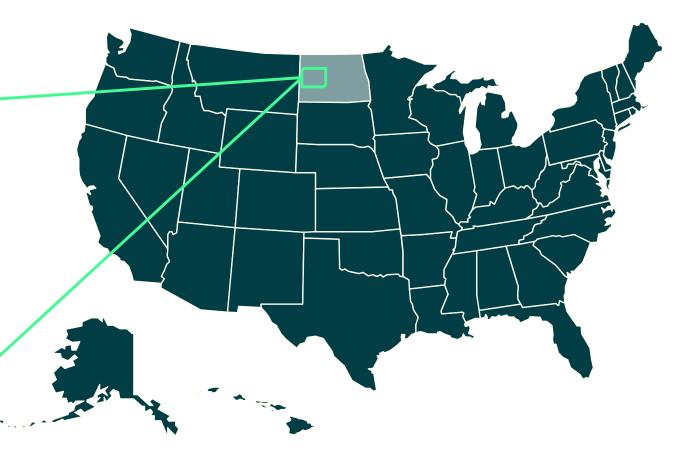
Source: Benchmark Minerals Intelligence Forecast: S&P Global, Morningstar, and Macquarie Research

Business Outlook

Planned Projects

Facility Details – ND I			
Location:	Watford City, ND		
Initial Capacity:	400 mt		
Maximum Capacity:	1,300 mt		
Footprint:	41,000 sq ft		
Construction Start:	H1/2024		
Expected Production Start:	H1/2025		

Facility Details – ND II			
Location:	Cartwright, ND		
Initial Capacity:	600 mt		
Maximum Capacity:	1,500 mt		
Footprint:	62,000 sq ft		
Construction Start:	H1/2024		
Expected Production Start:	H1/2025		



Planned Projects

The Company has signed a contract with a leading midstream company for the supply of lithium feedstock.

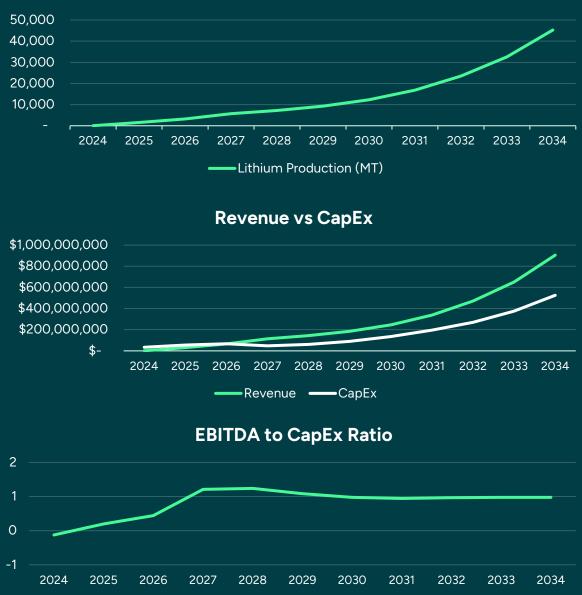
The Company expects to start construction of its first two facilities in the first half of 2024.

The facilities are expected to be operational by the first half of 2025 and is set to **increase current U.S. lithium production by 150%.**

The Company maintains a large pipeline of projects and plans to invest profits from operations into new projects to continuously build market share.

The planned production ramp can easily be scaled depending on available financing.





Our Technology - Lithium Feedstock

Water is Readily Available

In the U.S. alone, more than 55 million barrels of produced water are generated daily. Today, most produced water is transported away from the production site and injected into disposal wells, which creates a large environmental footprint and high cost. Our technology processes the water on-site and more than 90% of the produced water is reused for re-injection or irrigation purposes.



Financial Model 2023-2033

Assumptions

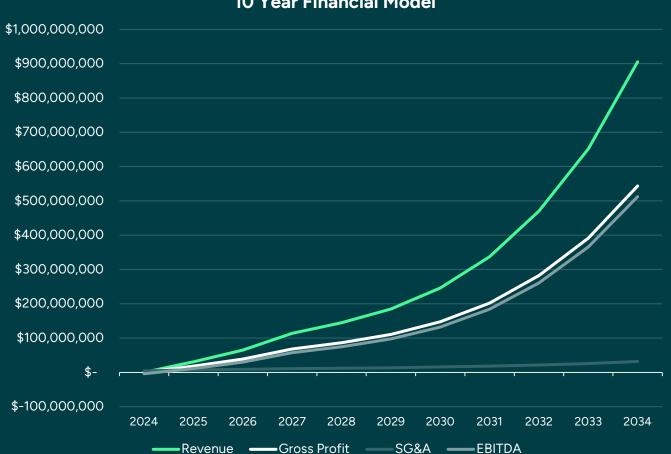
Lithium Sales Price: Feedstock:

\$20,000/mt* \$0.25/bbl*

*The revenue, gross margin and EBITDA numbers on this slide are the results of a financial model that is intended to illustrate the impact of contracts in our pipeline on our results of operations and are not projections of our future operating results. The numbers in this slide for sales price per metric ton, cost of goods sold per metric ton, capital expense, operating expense and gross margin are solely the assumptions used in the financial model and are also not projections of our future operating results or market prices for lithium. For purposes of the financial model, EBITDA is defined as net income calculated in accordance with GAAP, plus interest expense, taxes, depreciation and amortization. The results of this financial model are highly speculative and are likely to deviate materially from our actual results of operation.

*Assumptions based on price forecast from Benchmark Minerals

Lithium Harvest



10 Year Financial Model

The world's most sustainable lithium



lithiumharvest.com