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# The Future of Lithium in North America

Creating a Sustainable U.S. Lithium Business

September 2025

[www.standardlithium.com](http://www.standardlithium.com)



# Cautionary Statement



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## Forward-Looking Statements

Except for statements of historical fact, this Presentation contains certain "forward-looking information" within the meaning of applicable Canadian securities legislation and "forward-looking statements" within the meaning of the United States Private Securities Litigation Reform Act of 1995 (collectively referred to herein as "forward-looking information"). The statements relate to future events or the Company's future performance. All statements, other than statements of historical fact, may be forward-looking information. Information concerning mineral resource and mineral reserve estimates also may be deemed to be forward-looking information in that it reflects a prediction of mineralization that would be encountered if a mineral deposit were developed and mined. Forward-looking information generally can be identified by the use of words such as "seek", "anticipate", "plan", "continue", "estimate", "expect", "may", "will", "project", "predict", "propose", "potential", "target", "intend", "could", "might", "should", "believe", "scheduled", "implement" and similar words or expressions. These statements involve known and unknown risks, uncertainties and other factors that may cause actual results or events to differ materially from those anticipated in such forward-looking information.

In particular, this Presentation contains forward-looking information, including, without limitation, with respect to the following matters or the Company's expectations relating to such matters: the Company's planned exploration and development programs (including, but not limited to, plans and expectations regarding advancement, testing and operation of the lithium extraction pilot plant and expected collaboration with Equinor ASA ("Equinor")); commercial opportunities for lithium products; filing of technical reports; expected results of exploration; accuracy of mineral or resource exploration activity; accuracy of mineral reserves or mineral resources estimates, including the ability to develop and realize on such estimates; whether mineral resources will ever be developed into mineral reserves, and information and underlying assumptions related thereto; budget estimates and expected expenditures by the Company on its properties; regulatory or government requirements or approvals; the reliability of third party information; continued access to mineral properties or infrastructure; payments obligations pursuant to property agreements; fluctuations in the market for lithium and its derivatives; expected timing of the expenditures; performance of the Company's business and operations; changes in exploration costs and government regulation in Canada and the United States; competition for, among other things, capital, acquisitions, undeveloped lands and skilled personnel; changes in commodity prices and exchange rates; currency and interest rate fluctuations; the Company's funding requirements and ability to raise capital; geopolitical instability; war (such as Russia's invasion of Ukraine and the war in the Middle East); health and safety protocols and their efficacy and impacts on timelines and budgets; and other factors or information.

Forward-looking information does not take into account the effect of transactions or other items announced or occurring after the statements are made. Forward-looking information is based upon a number of expectations and assumptions and is subject to a number of risks and uncertainties, many of which are beyond the Company's control, that could cause actual results to differ materially from those that are disclosed in or implied by such forward-looking information. With respect to forward-looking information listed above, the Company has made assumptions regarding, among other things: current technological trends; ability to fund, advance and develop the Company's properties; the Company's ability to operate in a safe and effective manner; uncertainties with respect to receiving, and maintaining, mining, exploration, environmental and other permits; operation of a joint venture ownership structure with Equinor; pricing and demand for lithium, including that such demand is supported by growth in the electric vehicle market; impact of increasing competition; commodity prices, currency rates, interest rates and general economic conditions; the legislative, regulatory and community environments in the jurisdictions where the Company operates; impact of unknown financial contingencies; impacts of changes in current and future trade agreements, legislation, regulations, import tariffs and other similar trade barriers; market prices for lithium products; budgets and estimates of capital and operating costs; estimates of mineral resources and mineral reserves; reliability of technical data; anticipated timing and results of operation and development; inflation; war (such as Russia's invasion of Ukraine); and the impact of health and safety protocols on the Company and its business. Although the Company believes that the assumptions and expectations reflected in such forward-looking information are reasonable, the Company can give no assurance that these assumptions and expectations will prove to be correct. Since forward-looking information inherently involves risks and uncertainties, undue reliance should not be placed on such information.

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Although the Company has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward-looking information, there may be other factors that cause actions, events or results to differ from those anticipated, estimated or intended.

Readers are cautioned that the foregoing lists of factors are not exhaustive. All forward-looking information in this this Presentation speaks as of the date of this Presentation. The Company does not undertake any obligation to update or revise any forward-looking information, whether as a result of new information, future events or otherwise, except as required by law. All forward-looking information contained in this Presentation is expressly qualified in its entirety by this cautionary statement. Additional information about these assumptions and risks and uncertainties is contained in the Company's filings with securities regulators, including the Company's most recent MD&A for our most recently completed financial year and, if applicable, interim financial period, which are available on SEDAR+ at [www.sedarplus.com](http://www.sedarplus.com) and EDGAR at [www.sec.gov](http://www.sec.gov).

## Currency

Except where otherwise indicated, all references to currency in this Presentation are to U.S. Dollars ("\$").

## NI 43-101 Disclosure

Scientific and technical information in this Presentation has been reviewed and approved by Steve Ross, P. Geo., Vice President Resource Development, of the Company, who is a "qualified person" under National Instrument 43-101 – ***Standards of Disclosure for Mineral Projects*** ("NI 43-101").

Further information about the South West Arkansas ("SWA") Project, including a description of key assumptions, parameters, methods and risks, is available in the NI 43-101 technical report titled "Amended and Restated NI 43-101 Technical Report, South West Arkansas Project Pre-Feasibility Study, Lewisville, Lafayette County, AR" dated July 23, 2025 (the "South West Arkansas PFS"), available under the Company's SEDAR+ profile. The Company has also published the results of a definitive feasibility study (the "South West Arkansas DFS") for the SWA Project which will replace the South West Arkansas PFS. Further information about the South West Arkansas DFS is available in the news release issued by the Company on September 3, 2025, also available under the Company's SEDAR+ profile.

Further information about the Lanxess Property ("Lanxess") Project, including a description of key assumptions, parameters, methods and risks, is available in the NI 43-101 technical report titled "Amended and Restated NI 43-101 Technical Report for the Definitive Feasibility Study for Commercial Lithium Extraction Plant at Lanxess South Plant", dated July 23, 2025 ("Lanxess DFS"), available under the Company's SEDAR+ profile.

The mineral resources and mineral reserves contained in this Presentation have been prepared in accordance with the requirements of securities laws in effect in Canada, including NI 43-101, which governs Canadian securities law disclosure requirements for mineral properties. NI 43-101 differs from the requirements of the United States Securities and Exchange Commission ("SEC") that are applicable to domestic United States reporting companies. Any mineral resources or reserves reported by the Company herein may not be comparable with information made public by United States companies subject to the SEC's reporting and disclosure requirements.

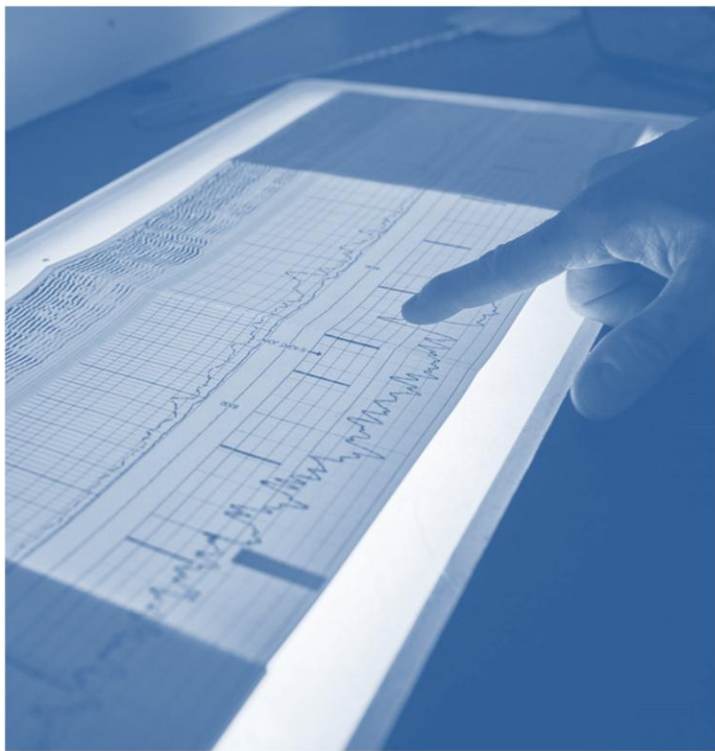
## Non-GAAP Measures

This Presentation includes certain performance measures ("non-GAAP measures") which are not specified, defined, or determined under generally accepted accounting principles (in the Company's case, International Financial Reporting Standards, or "IFRS").

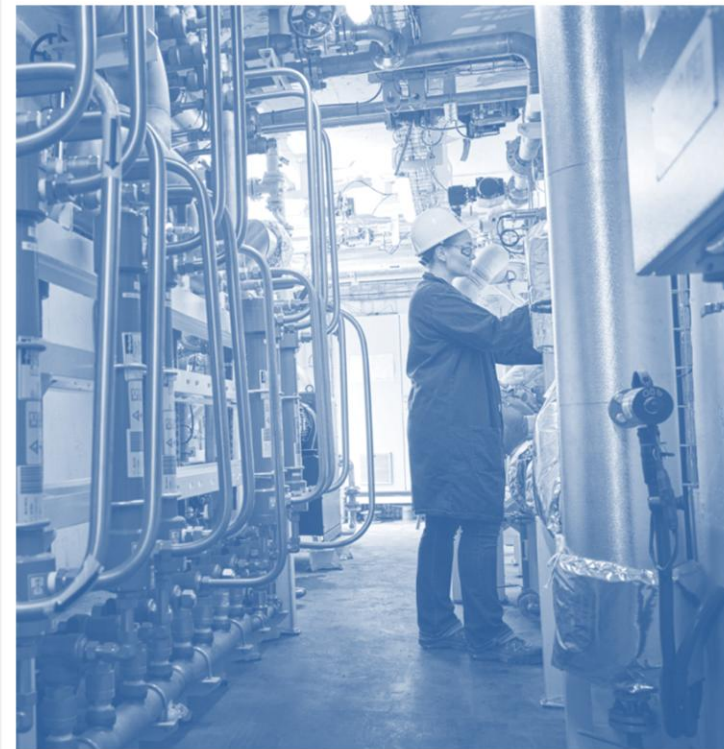
These are common performance measures in the lithium mining industry, but because they do not have any mandated standardized definitions, they may not be comparable to similar measures presented by other issuers. Accordingly, the Company uses such measures to provide additional information and readers should not consider them in isolation or as a substitute for measures of performance prepared in accordance with generally accepted accounting principles ("GAAP").



**Standard Lithium is on the path to becoming a leading low-cost sustainable domestic lithium producer**



**We aim to achieve attractive near-term commercial-scale production by applying innovative technologies to our world class assets in Arkansas and Texas**



**Building projects with our global partners in a region with regulatory and broad stakeholder support**

# Investment Highlights



## Premier Lithium Brine Resource in North America

Smackover is North America's highest grade lithium brine – **concentrations up to 616 mg/L in Arkansas<sup>1</sup> and up to 806 mg/L in East Texas<sup>2</sup>**



## Advantaged Cost Structure

High grade resource, proven commercial-scale technology and infrastructure drives low operating costs – expected to rank in **first quartile of global cost curve**



## Arkansas Project in Advanced Stage of Development

Finalizing Definitive Feasibility Study at our SWA Project supporting a highly attractive project – **targeting Final Investment Decision around year-end 2025**



## Aligned with World-Class Partners

**Partnerships bring complementary resources and expertise:** Equinor provides subsurface and big-project delivery experience, Aquatech aids in development of our flowsheet and technology, and LANXESS offers significant experience in brine operations



## Strong Federal Support for Arkansas Project

**SWA Project identified as transparency project on Federal Permitting Dashboard<sup>3</sup>, with construction of Phase 1 supported by \$225 million grant from the U.S. Department of Energy ("DOE")<sup>4</sup>**



## Attractive Long-Term Market Fundamentals

Global lithium demand projected to reach 2.7 million tonnes of lithium carbonate equivalent ("LCE") by 2030 – represents a 138% increase from 2024 levels<sup>5</sup> – with **strong U.S. support for advancing domestic production<sup>6</sup>**

1. Standard Lithium press release on July 15, 2025  
 2. Standard Lithium press release on October 25, 2023  
 3. Smackover Lithium press release on April 21, 2025

4. DOE grant awarded to SWA Lithium LLC, a jointly-owned U.S. subsidiary of Standard Lithium and Equinor  
 5. Q2 2025 Benchmark Lithium Forecast  
 6. Executive Order 'Immediate Measures to Increase American Mineral Production' signed March 20, 2025

# Brine to Battery – A Clear Path



## SECURE THE BEST RESOURCE

Entered Smackover - highest lithium brine grades in North America - with Tetra Option Agreement (2017) and Lanxess Memorandum of Understanding (2018) and ongoing leasing in East Texas



## UNLOCK THE RESOURCE WITH BEST TECHNOLOGY

Signed Joint Development Agreement with Aquatech (successor to KTS)<sup>1</sup> (2021) to develop and commercialize Direct Lithium Extraction ("DLE") flowsheet



## DE-RISK THE PROJECTS

Commenced operations at Company's Demonstration Plant (2020) -5+ years of continuous brine flow and testing; successful field-test completes de-risking (2025)<sup>2</sup>

## DEVELOP PROJECTS WITH RIGHT PARTNERS

Strategic partnership with Equinor (2024); License with Aquatech (successor to KTS)<sup>1</sup> (2024) to deploy and use Li-Pro LSS<sup>3</sup>; \$225 million grant from DOE (2025)<sup>4</sup>



## EXECUTION OF STRATEGY

Targeting 2028 for first delivery of sustainable and scalable lithium production

1. For further details see Aquatech press release dated September 16, 2025

2. Smackover Lithium press release dated March 11, 2025

3. Press release dated October 28, 2024, signed license agreement with Koch Technology Solutions (now Aquatech) to deploy and use Li-Pro™ Lithium Selective Sorption ("Li-Pro LSS") technology at SWA Phase 1

4. Standard Lithium press release on January 16, 2025

# Our Strategic Approach

Standard Lithium is positioning itself to achieve highly value-accretive, globally significant production scale, in a sustainable and responsible manner



## Resource & Location

- Recent drilling results in the Smackover Formation reveal highest reported lithium-in-brine grades in North America - up to 806 mg/L<sup>1</sup>
- Assets located in Arkansas and Texas, areas with established natural resource extraction industries, infrastructure and skilled workforce
- Multiple scalable project areas provide substantial capacity for future production



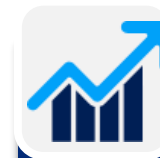
## Phased Development

- Over five years of DLE runtime and flowsheet optimization at Demonstration Plant
- Tailoring of DLE process replicable across Smackover Formation
- Phased stages of expansion – finalizing Definitive Feasibility Study at SWA, pursuing maiden resource report in East Texas



## Partnerships & Capitalization

- Strategic partnerships bring significant technical support in addition to financial strength
- Prioritizing non-dilutive sources of capital (e.g., strategic partnerships, offtake financing, federal funding, low-cost project debt)
- Focus on maintaining balance sheet strength, positive working capital, and low "burn-rate" through project execution



## Market Fundamentals

- Total demand for lithium is expected to more than double by 2030, with significant market deficit in North America through 2034<sup>2</sup>
- Strong Federal support for securing a stable and robust domestic supply of critical minerals in U.S. – *SWA Project included on the Federal Permitting Dashboard as a transparency project*<sup>3,4</sup>
- Standard Lithium's projects expected to rank among first quartile on global lithium cost curve

1. Standard Lithium press release on October 25, 2023  
 2. Benchmark Minerals Q2 2025 Lithium Market Overview  
 3. Smackover Lithium press release on April 21, 2025  
 4. SWA Project is subject to the National Environmental Policy Act ("NEPA") and will require completion of an Environmental Assessment; SWA Project is not expected to require federal permitting

# Smackover: A World Class Lithium Brine Asset

## Smackover Formation is a high-quality lithium brine resource

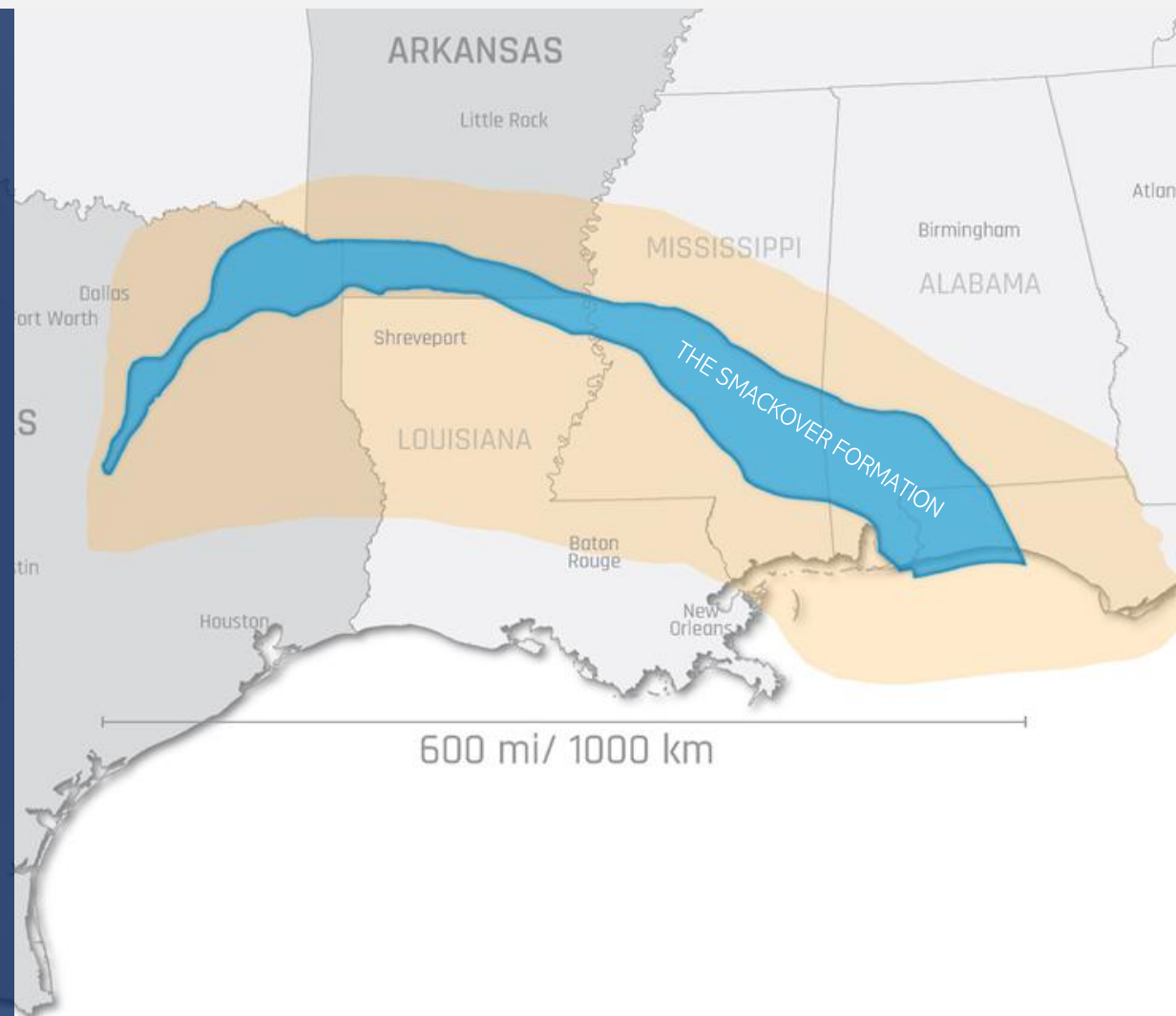
- Elevated lithium concentrations are some of the highest recorded outside of Lithium Triangle in South America
- In Arkansas, 8+ billion gallons of brine extracted, processed and reinjected annually for bromine production

## Proven reservoir with significant geological understanding

- Over 100 years of conventional energy operations in the Smackover Formation
- Geologic data from thousands of wells highlights zones with optimal brine potential and formation characteristics
- Over six decades of continuous brine mineral extraction operations

## Significant infrastructure to support growth

- Region is home to one of North America's largest and oldest brine processing industries
- Availability of water, power, natural gas, road, rail and skilled labor
- Gulf Coast chemical industry provides ease of access to key reagents



# Strategically Located for Domestic Market



**U.S. needs significant supply growth to meet forecasted lithium demand**

- **Advantaged location** gives SLi a sustainable competitive edge to be a key supplier to **emerging energy storage, electric vehicle and battery manufacturing markets in North America**
- **Existing access to road, rail, navigable rivers,** and close tie-in to gulf coast are key sustainable strategic advantages to SLi's asset base
- **Local workforce and regulatory regimes** that have over half a century of experience, oil and gas production, refining and chemical manufacturing



~100 Miles to TX



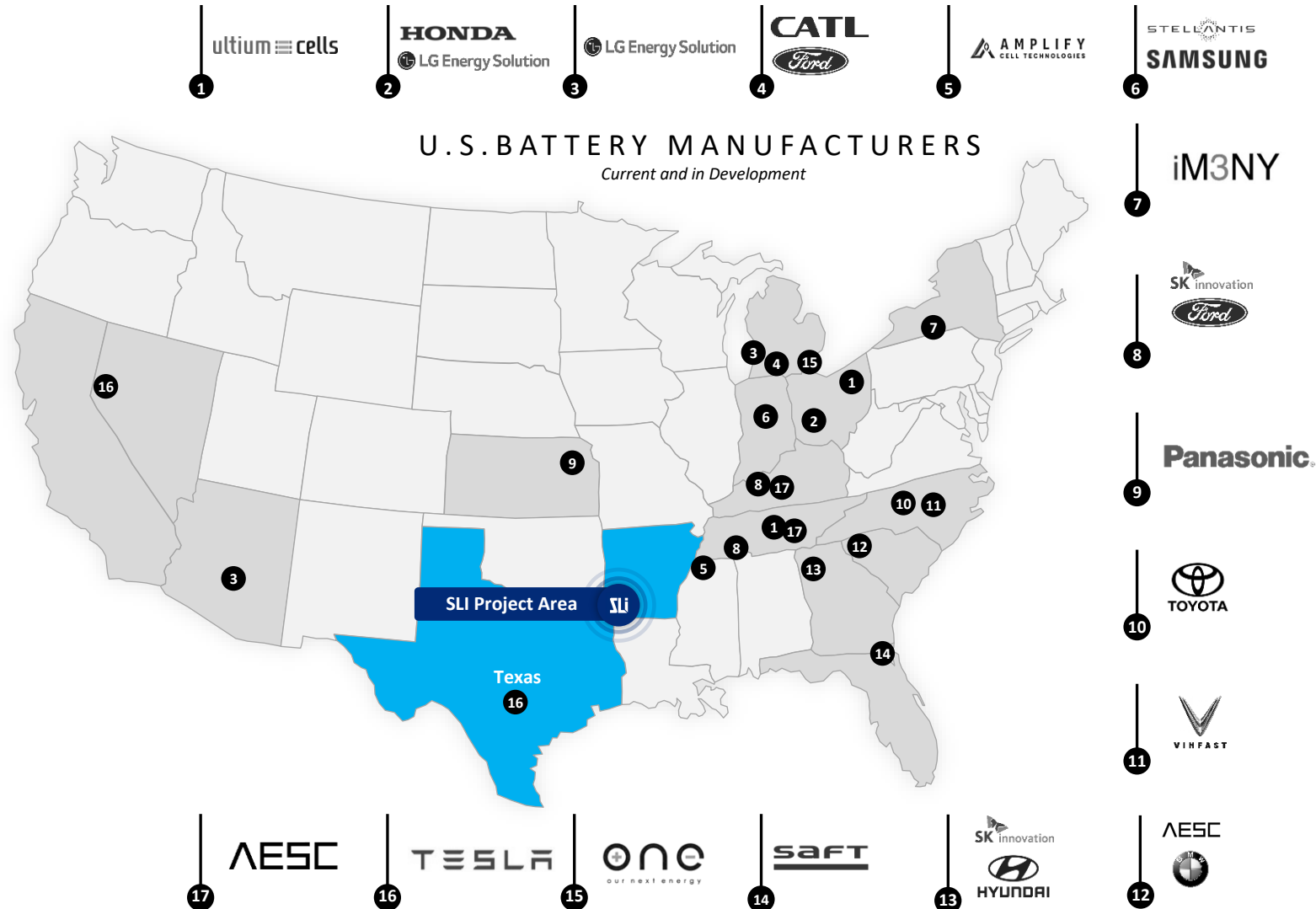
~700 Miles to TN



~1,000 Miles to MI

**Current Supply Chain**

20,000+ Nautical Miles to U.S. Manufacturing<sup>1</sup>



<sup>1</sup> Assumes mining location in western South America or Australia, refining in China, cathode production in Korea, and OEM destination in the US.

# Projects Overview



## SOUTH WEST ARKANSAS PROJECT



### Ownership:

55% Standard Lithium<sup>1</sup>

### Key Feature:

Avg. concentration of **442 mg/L** on M&I resource with results **up to 616 mg/L**<sup>2</sup>

Closed **\$225 million grant** from DOE<sup>3</sup>

Included as transparency project on Federal Permitting Dashboard<sup>4</sup>

### Production:

Initial capacity of **22,500 tonnes per annum ("TPA") lithium carbonate online in 2028**, with significant further expansion opportunity<sup>5</sup>



## EAST TEXAS PROJECTS



### Ownership:

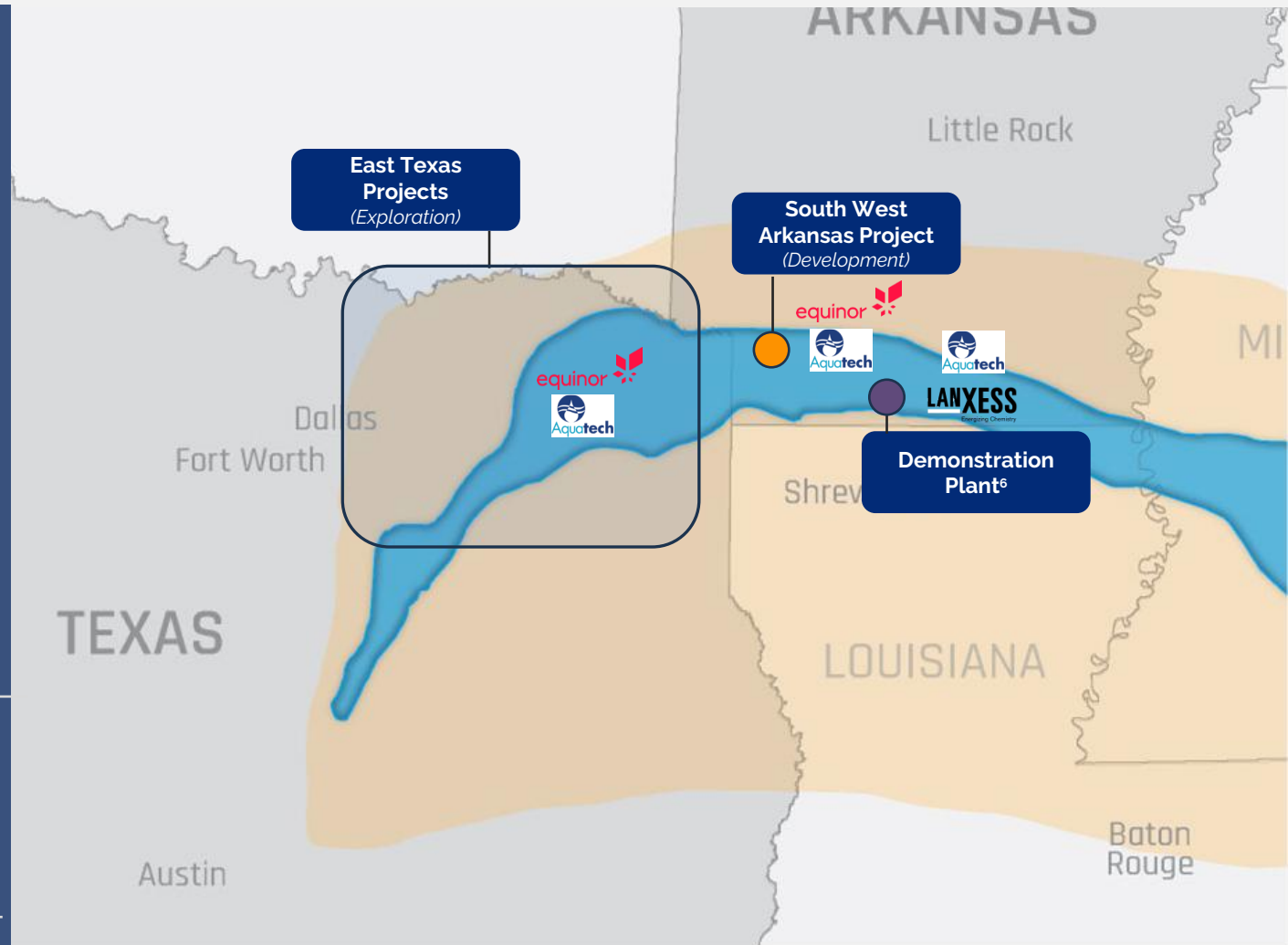
55% Standard Lithium<sup>1</sup>

### Key Feature:

Avg. concentration of **644 mg/L** with results **up to 806 mg/L**, including significant potash and bromine concentrations<sup>5</sup>

### Production:

Targeting a resource-based capacity for potential production of **100,000+ TPA LCE**



1. Standard Lithium press release on May 8, 2024

2. Smackover Lithium press release on September 3, 2025 highlighting results of definitive feasibility study ("DFS"); max grade referenced in press release dated July 15, 2025

3. Standard Lithium press release on January 16, 2025

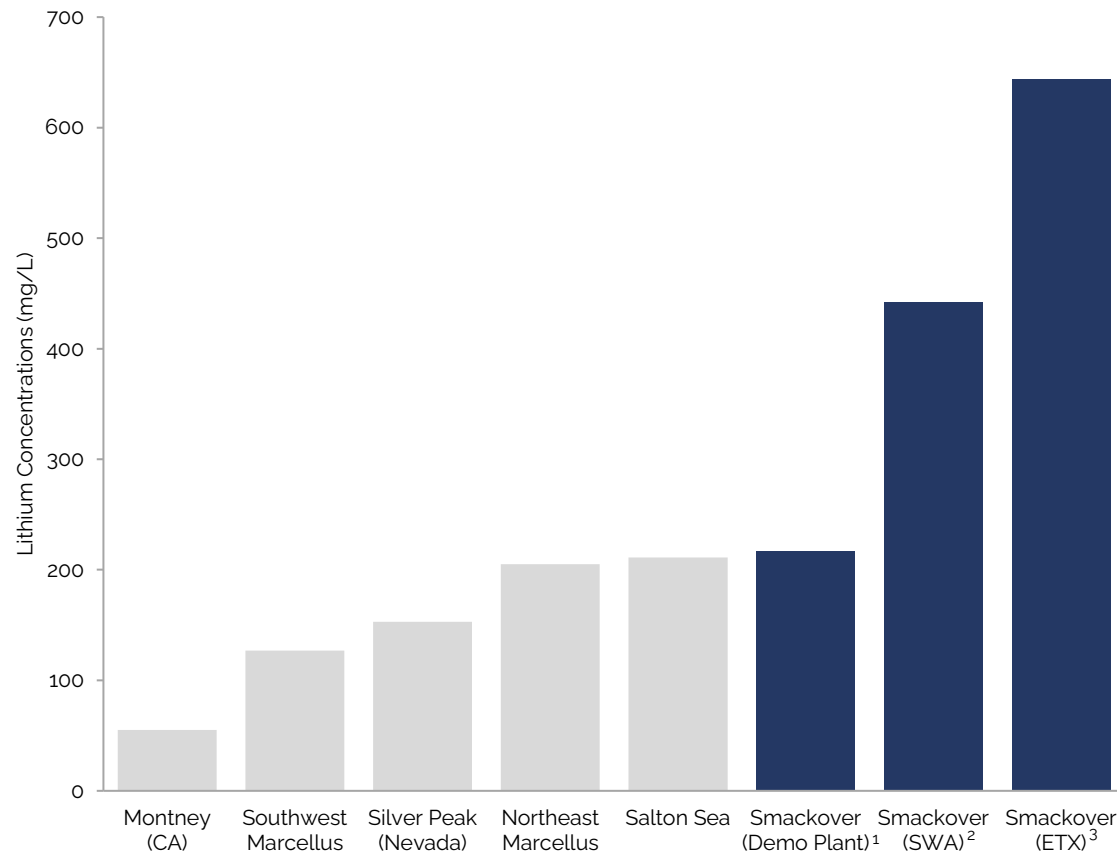
4. Smackover Lithium press release on April 21, 2025

5. Standard Lithium press release on October 25, 2023

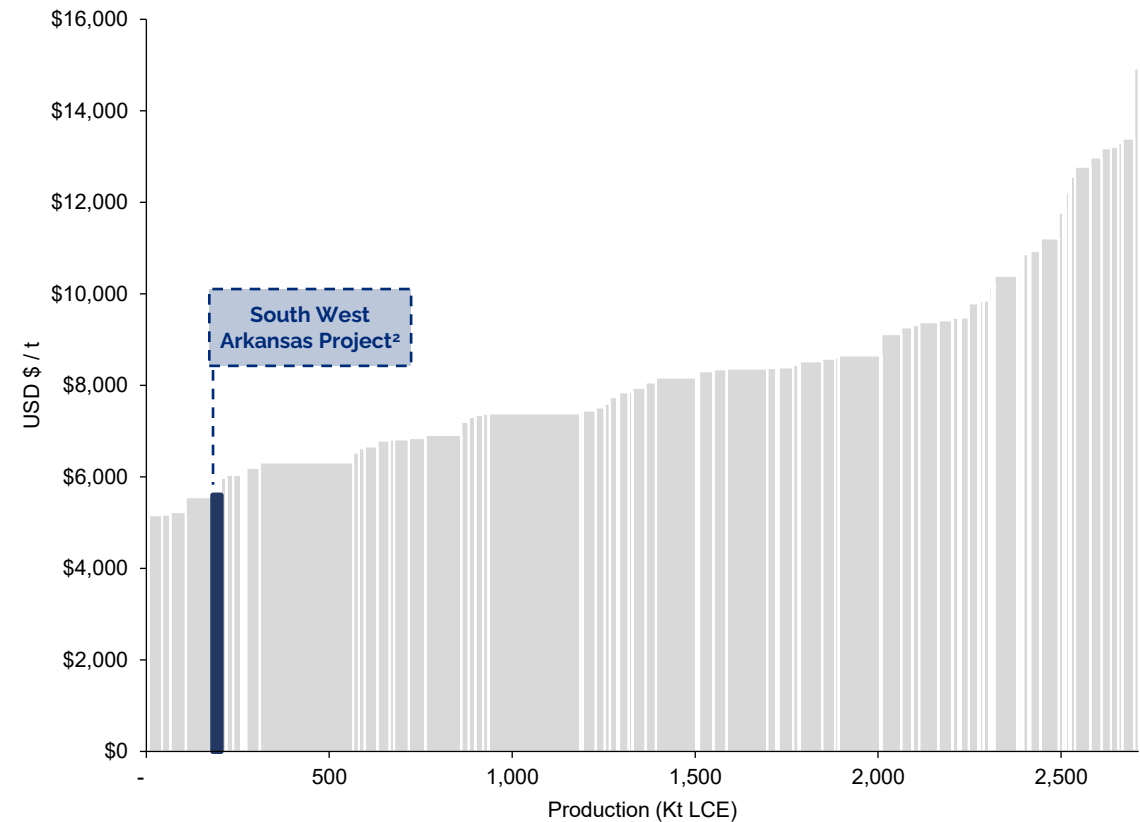
6. The Company's Demonstration Plant is located at the Lanxess South facility near El Dorado, AR. Further commercial development of the Lanxess Property Project has not been ruled out, but the Company's focus is centered on the joint venture ("JV") opportunities in South West Arkansas and East Texas

# High Grades Drive Compelling Economics

The Smackover Formation's high lithium concentration drives low-cost estimates – Standard Lithium anticipates its projects to rank among first quartile on global lithium cost curve



**NORTH AMERICAN BRINE LITHIUM GRADES**



**GLOBAL LITHIUM PRODUCTION COST CURVE⁴**

1. Lanxess DFS as filed July 23, 2025. The reference point for average lithium concentration in the Phase 1A DFS is the brine inlet to the Company's Demonstration Plant
2. SWA DFS results per Smackover Lithium press release on September 3, 2025. Average lithium concentration of Measured & Indicated Resource. Average operating costs based on annual production capacity of 22,500 tonnes of lithium carbonate. Includes royalties and excludes sustaining and closure CAPEX
3. Standard Lithium press release on October 25, 2023
4. Source: Benchmark Minerals Q2 2025 Lithium Forecast. Reflects C1 costs which include mining/extraction, processing, G&A, off-site transportation, port loading & storage, concentrate shipping, chemical conversion, chemical shipping, by-product credits *plus* royalties/production taxes. Based on 2030 LCE production and cost

# South West Arkansas DFS

## Definitive Feasibility Study Highlights

- **First production targeted in 2028** with initial capacity of 22,500 tpa battery-quality  $\text{Li}_2\text{CO}_3$ . Would mark the first commercial lithium output from the Smackover Formation
- **20+ year operating life** supported by Resource & Reserve modeling with 481 mg/L average lithium concentration over production plan and ample opportunity for future expansion
- **Strong economics:** \$1.7B unlevered pre-tax NPV, 20.2% IRR (8% discount) and \$22,400/t lithium price based on average of Fastmarket's 20-year forward pricing curve
- **Low costs:** Average operating cost of \$4,516/t and all-in cost of \$5,924/t
- **\$1.45B Total CAPEX:** Class III estimate informed by 18-month front-end engineering design, with 12.3% contingency and improved capital intensity expected on future expansion phases
- **Upgraded Resource definition:** Proven Reserves of 447,000 t LCE at 481 mg/L; Measured & Indicated Resource of 1,177,000 t LCE at 442 mg/L
- **First U.S. commercial DLE** using Aquatech Lithium Selective Sorption process with performance guarantees and regional exclusivity in Smackover under Joint Development Agreement<sup>3</sup>

## Definitive Feasibility Study Summary<sup>1</sup> (100% Ownership Basis)

|                                                          |              |         |
|----------------------------------------------------------|--------------|---------|
| Annual Production Capacity of $\text{Li}_2\text{CO}_3$   | <i>tpa</i>   | 22,500  |
| Modeled Plant Operating Life                             | <i>years</i> | 20      |
| Brine Flowrate at Start of Production                    | <i>bbl/d</i> | 148,000 |
| Average Brine Flowrate over Modeled Plant Operating Life | <i>bbl/d</i> | 168,000 |
| Lithium Grade at Start of Production                     | <i>mg/L</i>  | 549     |
| Average Lithium Grade over Plant Operating Life          | <i>mg/L</i>  | 481     |
| Total CAPEX                                              | <i>\$mm</i>  | 1,449   |
| Average Annual Cash OPEX                                 | <i>\$/t</i>  | 4,516   |
| Average Annual All-in OPEX <sup>2</sup>                  | <i>\$/t</i>  | 5,924   |
| Selling Price                                            | <i>\$/t</i>  | 22,400  |
| Discount Rate                                            | <i>%</i>     | 8.0     |
| Net Present Value (NPV) Pre-Tax                          | <i>\$mm</i>  | 1,666   |
| Net Present Value (NPV) After-Tax                        | <i>\$mm</i>  | 1,275   |
| Internal Rate of Return (IRR) Pre-Tax                    | <i>%</i>     | 20.2    |
| Internal Rate of Return (IRR) After-Tax                  | <i>%</i>     | 18.2    |

Note: All model outputs are expressed on a 100% ownership basis with no adjustments for project financing assumptions. Standard Lithium's economic interest in the Project is 55%. Any discrepancies in the totals are due to rounding effects

1. For additional detail and table notes see Standard Lithium press release on September 3, 2025

2. Includes operating expenditures, royalties, sustaining capital and closure costs. Royalties include quarterly gross lithium royalty of 2.5% as approved by the Arkansas Oil and Gas Commission ("AOGC"), an additional brine fee of \$65/acre per year and override fees payable on certain optioned brine leases

3. For further details of acquisition of KTS direct lithium extraction technology see Aquatech press release dated September 16, 2025

# Capital Formation “Pyramid”

Standard Lithium is committed to maximizing shareholder returns through a strategic and methodical approach to capital formation

## Leveraging strategic partnerships to maximize project success

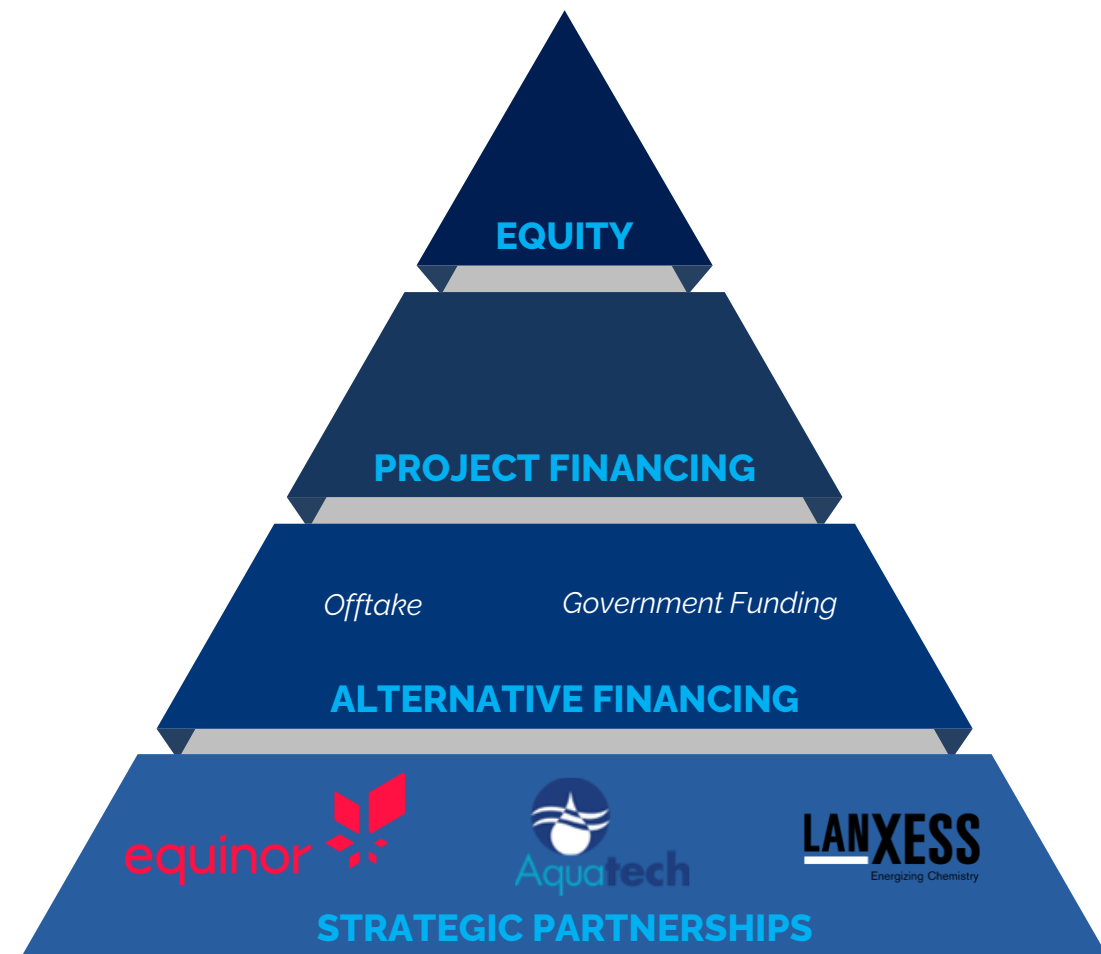
- Standard Lithium has secured investments from Equinor and Koch Industries
- Industry-leading partners bring technical, operational and strategic capabilities in addition to financial strength

## Prioritizing low-cost, limited-recourse financing

- Closed \$225 million grant from the DOE which will support construction of Phase 1 of the SWA Project<sup>1</sup>
- Process underway to secure project debt financing and customer offtake

## Focused on maximizing shareholder value by limiting dilution

- Equinor investment done at the project level without issuance of any Standard Lithium shares
- Prioritize and execute at the “base of the pyramid and build up”**, lowering the cost of capital as we de-risk the projects, minimizing parent company equity raise requirements



# Strong Federal Support for SWA Project

Backing from Department of Energy and Executive Office's National Energy Dominance Council reinforces SWA Project importance and development timeline

## KEY HIGHLIGHTS

- SWA Lithium LLC is recipient of **\$225 million grant from the DOE** to support the construction of Phase 1 of the SWA Project<sup>1</sup>
- Grant was part of the second wave of funding under the Infrastructure Investment and Jobs Act aimed at expanding domestic manufacturing of all segments of the battery supply chain and **increasing production of critical minerals in the U.S.**
- In response to Executive Order 14241, SWA Project has been **included on the Federal Permitting Dashboard as a transparency project**<sup>2</sup>, a designation that ensures increased transparency, accountability and predictability in the permitting review process
- The SWA Project was one of only three domestic lithium projects, and the sole DLE initiative, to be included on the initial selected projects list

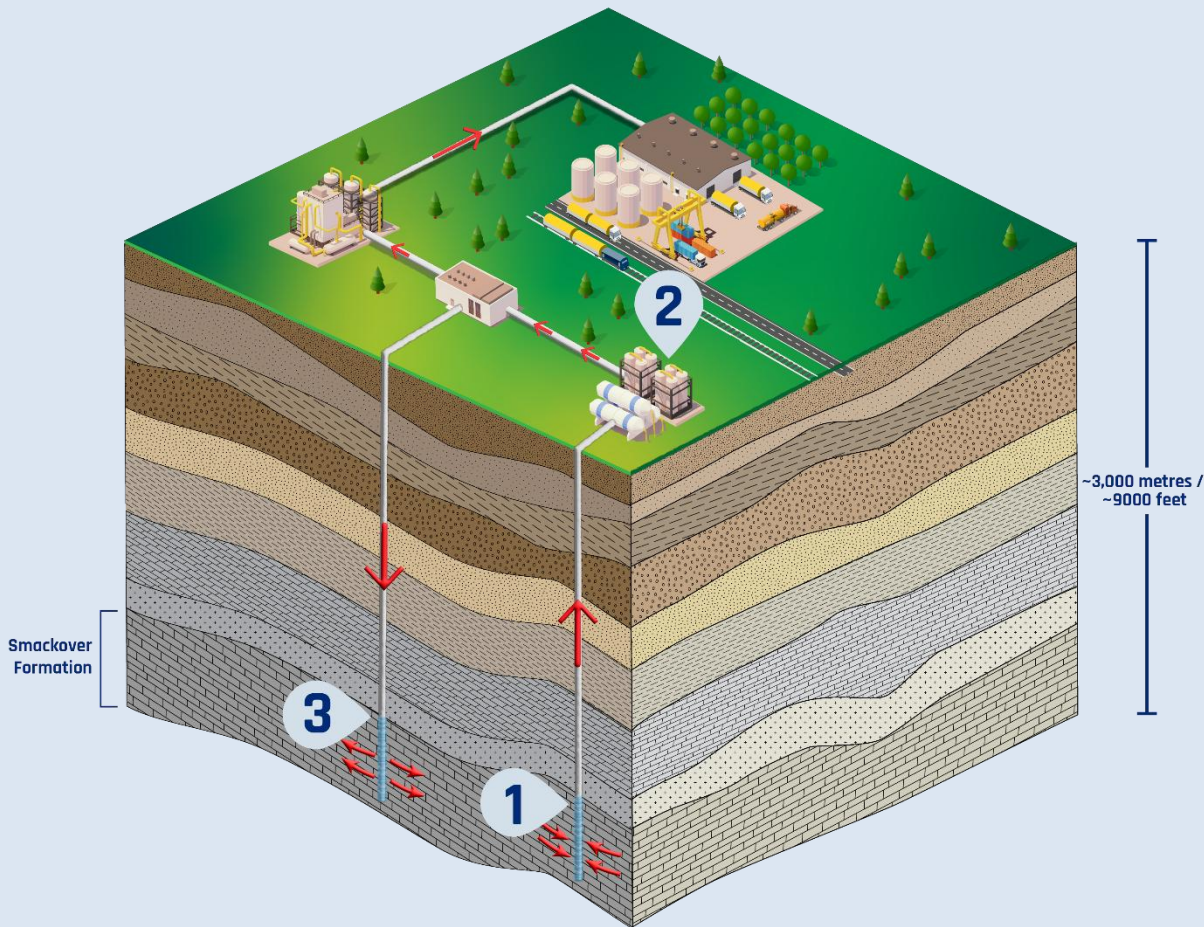


1. SWA Lithium LLC is a jointly-owned U.S. subsidiary of Standard Lithium and Equinor ; The project's design is being updated from its original PFS, and now targets a larger total output of 45,000 TPA of lithium carbonate, to be developed in two phases of 22,500 TPA each. A DFS and FEED are currently underway to support this expansion, targeting a final investment decision by end of 2025.

2. Permitting Council press release dated April 18, 2025, "Trump Administration Advances First Wave of Critical Mineral Production Projects"

# Strategic Partnerships: More than Capital

## From Brine to Battery Grade Lithium – Leveraging Strategic Partnerships



### Refining and Direct Lithium Extraction

- Utilizing Aquatech's proprietary Lithium Selective Sorption (LSS) process across the Smackover
- Standard Lithium has regional exclusivity in the Smackover for the LSS process



1

### Reservoir and Well Development

- Lithium concentrations are highest recorded outside of South America
- In Arkansas, 8+ billion gallons of brine extracted, processed and reinjected annually

2

3

### Production and Reinjection

- Equinor brings significant experience in designing and delivering onshore facilities
- Standard Lithium's Demonstration Plant provides de-risking and valuable learnings to go forward production



# Successful Field-Test Completes DLE De-risking

Smackover Lithium successfully completed the de-risking of its DLE technology with a field-test at its South West Arkansas Project

- Field-pilot DLE facility exceeded key performance criteria to confirm engineering design – ***recovered over 99% of lithium from brine, sourced from SWA Project well***
- Rejection of key contaminants all within acceptable tolerance of design criteria
- Field-pilot plant completed nearly 500 DLE cycles, processing 2,385 barrels of brine
- Approximately 970 gallons (23 barrels) of concentrated and purified lithium chloride solution (6% LiCl solution) produced
- Lithium chloride solution sent off-site to potential equipment vendors for conversion into battery-quality lithium carbonate with positive results
- ***Samples expected to play a key role in qualification process with prospective off-take partners***
- Field-test is viewed as ***final testing of flowsheet*** and results underpin the SWA Project's FEED and DFS
- Data from field-test supplements the roughly 35 million gallons of brine processed at Standard Lithium's Demonstration Plant since 2020



# Proven Technology at Commercial-Scale

- In March 2024, Standard Lithium successfully installed and commissioned the Li-Pro™ Lithium Selective Sorption (LSS) commercial scale unit supplied by KTS (now Aquatech)<sup>1</sup>
- This unit is believed to be the largest known commercial-scale column operating in a DLE facility
- *On Oct. 28, 2024, SWA Lithium, the JV between SLI and Equinor which is developing the SWA Project, announced that it entered into a license agreement with KTS (now Aquatech) to deploy and use their Li-Pro LSS technology at the JV's commercial plant for SWA Phase 1*
  - The license agreement includes certain technology performance guarantees for lithium recovery (+95%), contaminant rejection (+99%)<sup>2</sup>, and water use
- During a four-month continuous operating period (1<sup>st</sup> April to 31<sup>st</sup> July 2024), the Li-Pro LSS process achieved:
  - Avg. lithium **recovery efficiency of 95.4%**
  - Avg. key **contaminant rejection of +99%**
- Over **12,000 operational cycles** using Li-Pro™ LSS technology at the Demonstration Plant and roughly **35 million gallons (830,000 barrels)** of Smackover brine processed in total since 2020
  - Equates to **approximately 142 tonnes LCE** processed through the Company's DLE flowsheet<sup>3</sup>



1. For further details see Aquatech press release dated September 16, 2025  
 2. Impurities included in performance guarantee include calcium, sodium, potassium and magnesium  
 3. Illustrative calculation based on assumed 90% lithium recovery at average input of 220 mg/L; does not reflect actual LCE produced or sold

# Large Demonstration Plant in Operation Since 2020



# Capitalization & Liquidity



## Financial Highlights

- Positive working capital with no revolving or term debt obligations as of June 30, 2025
- Closed a \$225 million grant from the DOE<sup>3</sup>, one of the largest ever awarded to a U.S. critical minerals project
- Largest shareholder (Koch, 6.6% of total outstanding shares) is long-standing strategic partner<sup>4</sup>
- Sole funding by JV partner, Equinor, at the SWA Project and East Texas projects completed in second quarter 2025; near term commitments to be funded through cash on hand, availability under at-the-market equity offering program, and DOE cost reimbursements at SWA

## Liquidity & Capitalization<sup>1</sup> (USD millions)

|                                      |         |
|--------------------------------------|---------|
| Cash                                 | \$33.8  |
| Debt                                 | \$0     |
|                                      |         |
| Shares Outstanding (mm) <sup>2</sup> | 204.0   |
| Share Price (USD)                    | \$2.94  |
| Market Capitalization                | \$599.9 |



Source: FactSet

1. Liquidity as of June 30, 2025, NYSE trading data as of August 29, 2025.

2. Shares Outstanding as of August 8, 2025 Management's Discussion & Analysis

3. DOE grant awarded to SWA Lithium LLC, a jointly-owned U.S. subsidiary of Standard Lithium and Equinor

4. Ownership figures as per Koch, Inc. Form 13-F dated December 31, 2024



NYSE: **SLI** | TSX.V: **SLI**

# Appendix

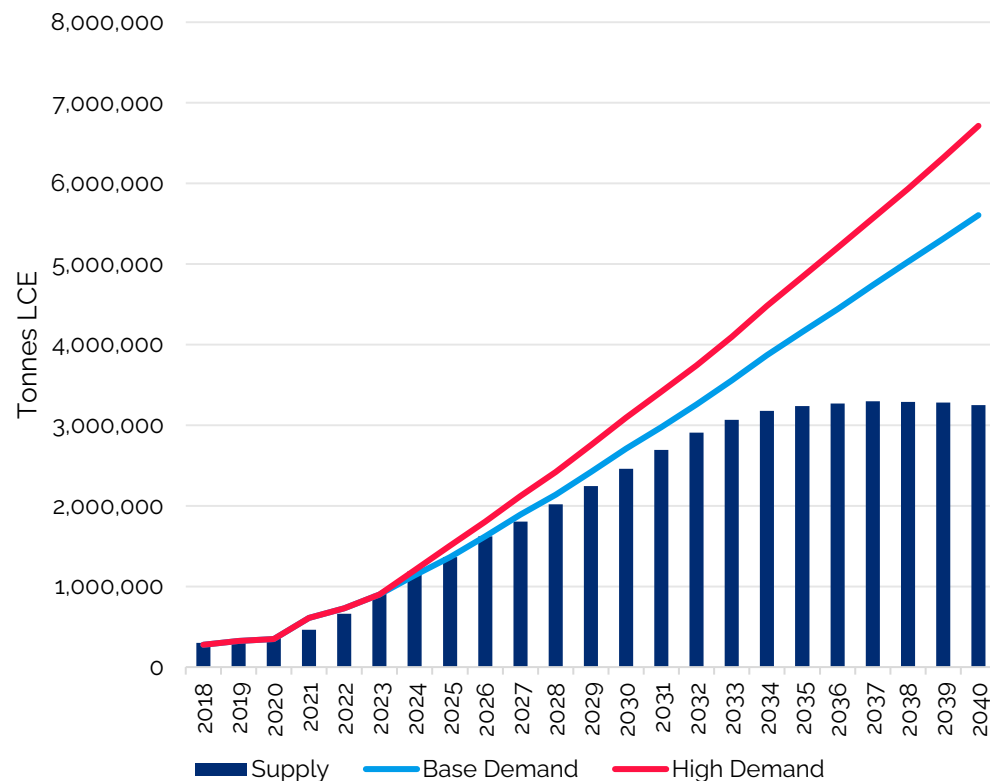
[www.standardlithium.com](http://www.standardlithium.com)



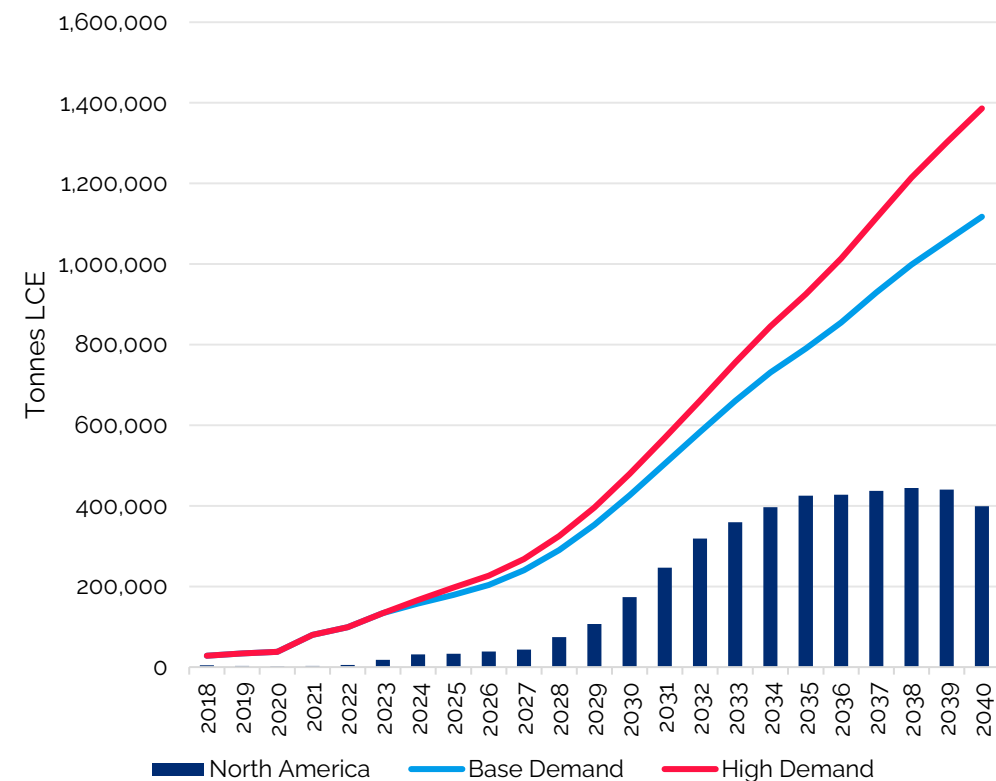
# Compelling Market Fundamentals

A looming global supply gap, and a substantial market deficit in North America driven by U.S. policy demands, presents a compelling opportunity for new projects

## Global Supply Demand Balance



## Regional Supply Demand Balance



Source: Benchmark Minerals Q2 2025 Lithium Forecast.

# Equinor | International Pioneers in the Energy Transition

**Equinor are energy experts and world-leaders in renewable and low carbon solutions**



**An international energy company headquartered in Stavanger, Norway with operations in oil & gas, renewables and low carbon solutions**

**Equinor is a leading multinational energy company with operations across 36 countries**

- Historically focused on oil & gas, Equinor has expanded its presence in renewables & low carbon as well as innovation and digital
- Equinor has a strong commitment to sustainability, evidence of which can be found in its commitment to the battery value chain

**Equinor is a global premier resource developer with significant experience in project development and onshore facilities**

- In addition to significant experience in subsurface assessment and production, Equinor has a track record of project development and execution with onshore facilities around the world
- Equinor's ability to provide resource development and facilities expertise significantly de-risks project execution

**Equinor is one of the world's largest energy companies**

- Equinor brings a multi-billion dollar market cap and investment grade balance sheet to support project execution

# Aquatech | Critical Minerals & Metals Resource Recovery



Aquatech brings significant expertise in lithium extraction and refining



Enabling the energy transition by delivering complete water and process technology solutions to solve water scarcity and ensure critical minerals security

## Pioneering sustainable solutions

- Established in 1981 in Canonsburg, Pennsylvania with offices throughout the US, India, Europe, the Middle East and China, and a process technology R&D center in Wisconsin
- Successfully executed more than 2,000 site solutions in over 60 countries globally
- End-to-end process solutions to produce technical and battery-grade lithium hydroxide, lithium carbonate and lithium salts
- Received minority growth investment from Cerberus' Supply Chain and Strategic Opportunities platform in April 2025

## Significant alignment between Standard Lithium and Aquatech<sup>1</sup>

- Joint Development Agreement with Aquatech (successor to Koch Technology Solutions) to collaborate on technology & process solutions for commercial DLE
- License agreement to deploy and use Li-Pro LSS technology at the commercial processing facility for initial phase of the SWA Project<sup>2</sup>

1. Aquatech acquired Koch Technology Solutions direct lithium extraction technology. For further details see Aquatech press release dated September 16, 2025  
2. Press release dated October 28, 2024; license agreement was executed by SWA Lithium, the JV between Standard Lithium and Equinor which is developing the SWA Project

# South West Arkansas (SWA) Project<sup>1</sup>

## Highlights

The SWA Project has:

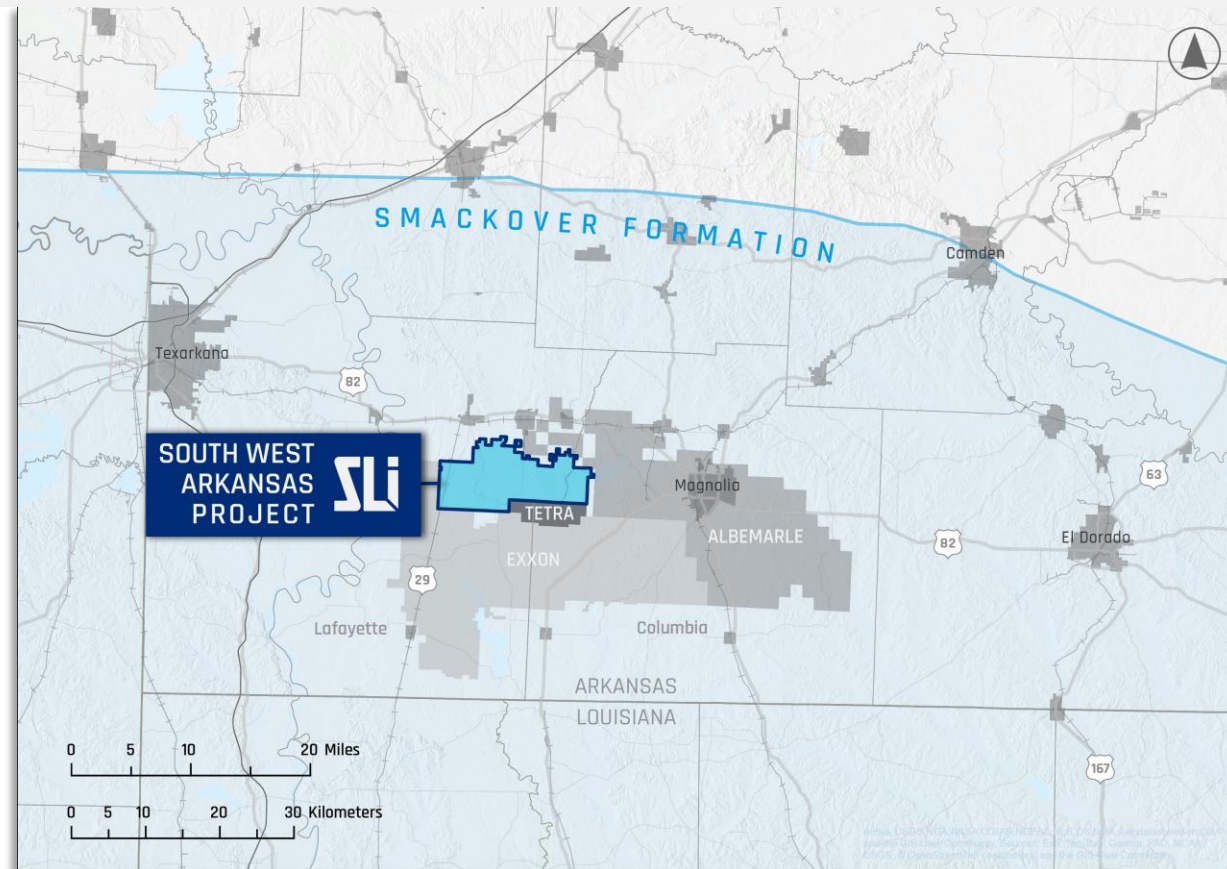
- Lithium avg. grade of 442 mg/L on total Measured & Indicated Resource (max of 616 mg/L)<sup>2</sup>;
- Planned initial annual output of 22,500 tonnes battery-quality lithium carbonate with ample opportunity for significant further expansion;
- Competitive average cash operating costs of \$4,516/t with total capital expenditures of \$1.45 billion
- Existing project and regional infrastructure with strong local workforce and friendly regulatory environment

...resulting in the SWA Project being a globally significant potential source of lithium

**Location:** Adjacent to Albemarle's brine operations and Exxon Mobil's lithium exploration project, the SWA Project benefits from existing infrastructure, regional expertise and established regulatory regime

**Lithium Grade:** The SWA Project boasts an average lithium grade of 481 mg/L for production plan, higher than other North American brine projects

**Significance:** Initial production targeting 22,500 TPA of battery-quality lithium carbonate with improved capital intensity expected on future expansion phases



**DLE De-risking  
Complete<sup>3</sup>**

Successful field-test surpassed  
key performance criteria

**FEED & DFS Results  
Complete**

DFS report release anticipated  
around end of Q3 2025

**Targeting FID  
around YE 2025**

Offtake &  
finance process underway

1. Smackover Lithium press release on September 3, 2025 highlighting results of definitive feasibility study ("DFS")  
2. Max grade referenced in press release dated July 15, 2025  
3. Smackover Lithium press release dated March 11, 2025

# SWA - Pathway to Final Investment Decision

## Key Milestones at South West Arkansas

### Royalty



Received royalty rate approval from the Arkansas Oil and Gas Commission for Phase I of SWA Project<sup>1</sup>

### FEED & DFS Results<sup>2</sup>



Flowsheet has been finalized & DLE technology de-risked

### Customer Offtake



Advisor has been selected to lead customer off-take and project finance process; discussions underway

### Project Finance



Advisor has been selected to lead customer off-take and project finance process; discussions underway, with final negotiation subject to results of off-take discussions

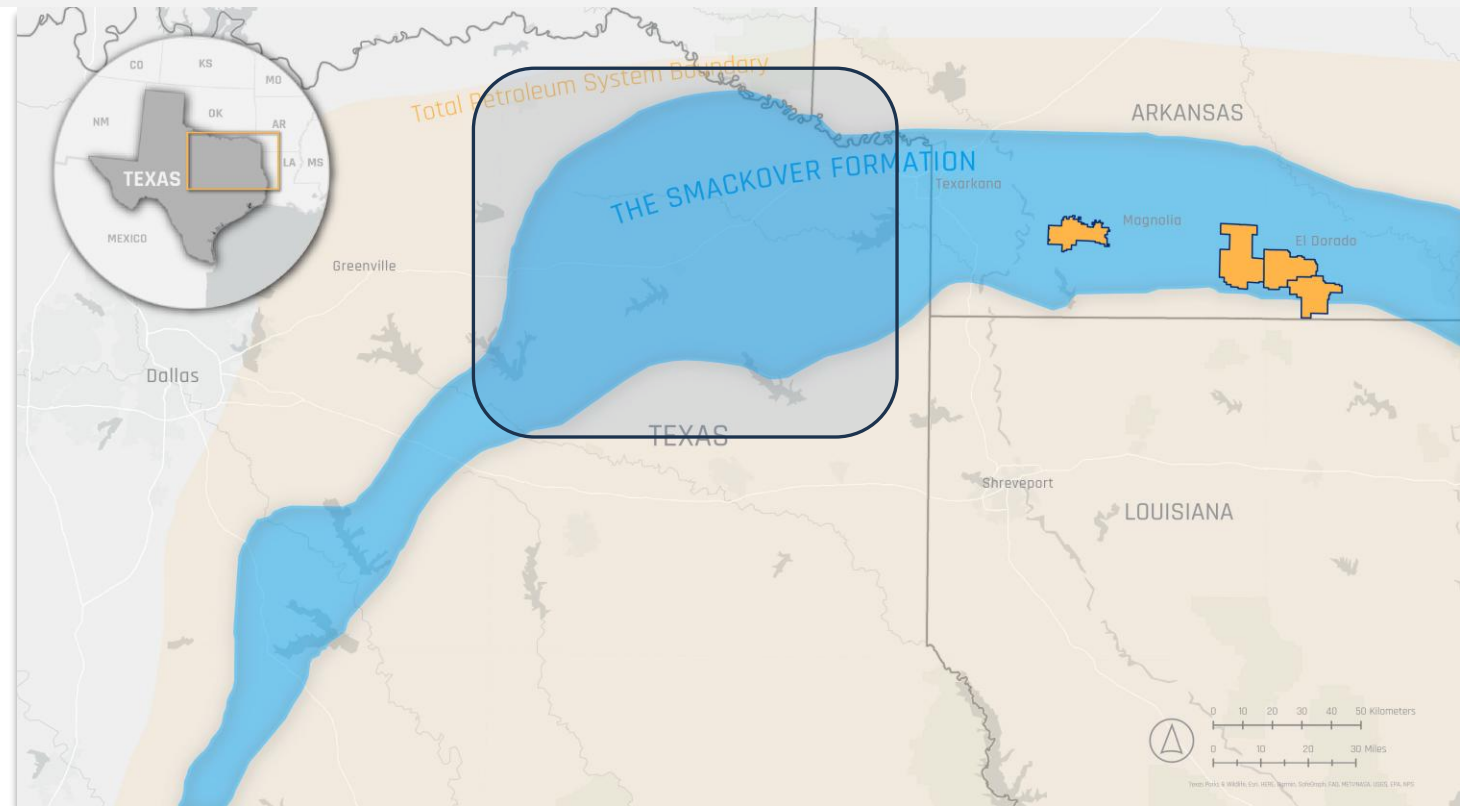
*Project milestones to be completed sequentially prior to Final Investment Decision*

**Targeting Final Investment Decision around Year-End 2025**

<sup>1</sup> Press release dated May 29, 2025  
<sup>2</sup> The updated Definitive Feasibility Study, replacing the Pre-Feasibility Study, to be published around the end of Q3 2025. The results of the DFS are available in the news release issued by the Company on September 3, 2025

# East Texas Greenfield Exploration

Standard Lithium has secured a significant brine lease position, drilled and sampled lithium brine showing significant potential to develop a resource



**644 mg/L**

Average Lithium  
Concentration<sup>1</sup>

**806 mg/L**

Highest Lithium  
Concentration<sup>1</sup>

Opportunity to develop  
large-scale, industry-  
leading lithium projects  
in Texas

# East Texas Greenfield Exploration

Targeting locations with optimal brine grades to secure a foothold for large-scale production

## STATUS: Resource Definition

- Team of Smackover specialists have been working for the past four years to identify the most prospective areas to secure high-quality brine resources in East Texas
- **Area of interest spans ~185,000 acres**, broken into several project areas. **Have leased a significant portion of the first project area's gross footprint of 65,000 acres**; leasing ongoing
- Three wells drilled with additional work planned for 2025 - 2026
- Samples collected to date were tested by third parties to confirm **lithium concentrations ranging from 298 to 806 mg/L<sup>1</sup>**
- To the understanding of management, these are some of the **highest tested lithium brine concentrations in North America**
- **Planned maiden inferred resource report expected to be released by the end of Q3 2025**



LITHIUM CONCENTRATION RANGE<sup>1</sup>

**298 - 806 mg/L**

1. East Texas samples from March 28, 2023 and October 25, 2023 press releases

# Leading a new era of responsible lithium production in America

NYSE: **SLI**

| TSX.V: **SLI**

RESOURCE • TECHNOLOGY  
PLACE • PARTNER

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