

Corporate Presentation | Spring 2024

Confidential

Sustainable Lithium Extraction



COLORADO
Office of Economic Development
& International Trade



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PURPOSE

Sustainable Lithium Production Without Evaporation Ponds



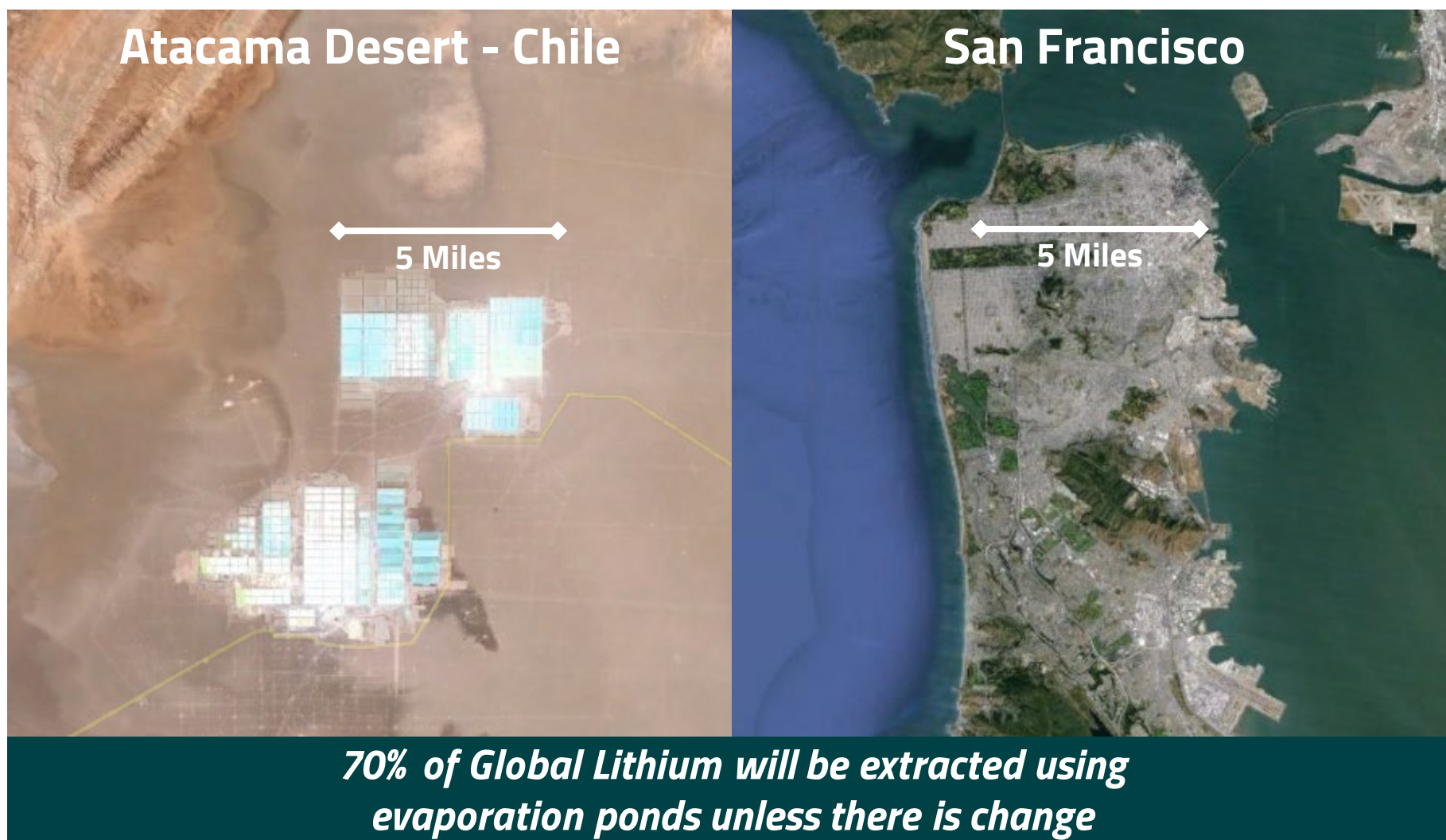
EVAPORATION PONDS

Existing production method employs plastic-lined pits stretching for miles



SCALE OF EVAPORATION PONDS

Footprint of SQM's production facility in Chile rivals the size of San Francisco



PROBLEM

Evaporation ponds use chemical injection and natural evaporation to gradually concentrate lithium

UNSUSTAINABLE & INEFFICIENT EXTRACTION

- ➔ 40%+ OF RESOURCE LOST
- ➔ CHEMICALLY INTENSIVE
- ➔ SLOW (9+ MONTHS)

"The production of lithium through evaporation ponds uses 2.2 million liters of water to produce one ton of lithium." – **euronews**.

*Environmental regulators have instructed producers to cease using evaporation ponds and **an alternative solution is desperately needed***

KEY INVESTMENT HIGHLIGHTS

Patented and Field-proven at Industrial Scale

- Proven component cycle time up to 6mm bbl or 1million m³
- Mobile modular system design that adds value to both DLE and existing brine operations

Enables DLE at-scale by Solving its Pre-Treatment Challenge

- AcQUA™ pre-treatment technology for brines that eliminates the need for evaporation ponds, reagents and fresh water

Technology for the High Growth Lithium Space

- Technology removes need for evaporation ponds
- Patented process uses electro-pressure membranes to remove impurities and concentrate lithium

Existing Testing Pipeline with 6 Global "Tier 1" Customers

- Multiple paid customer pilots ongoing at test facility in Alabama, AcQUA™ ports into their existing processes

Strong and Experienced Management Team

- Track record of successfully developing and commercializing technology based industrial solutions

AcQUA™ MULTIFACETED VALUE PROP FOR CUSTOMERS

For Existing South American Producers:

- **Higher Yields** – Recovery Factor of over 90% can **boost yields ~2x**
- **Increased Production Volumes** – Higher re-injection rates projected to **increase production volumes 3x+**
- **Shorter Lead Times** – Projected processing time cut from 9-12 months to **under 2 weeks**
- **Reduced OpEx** – Operating expenses are expected to be lower by **eliminating the need for freshwater and chemicals**

For Aspiring US Producers:

- **AcQUA™ enables access to “trapped” Li resources** where evaporation ponds cannot be permitted

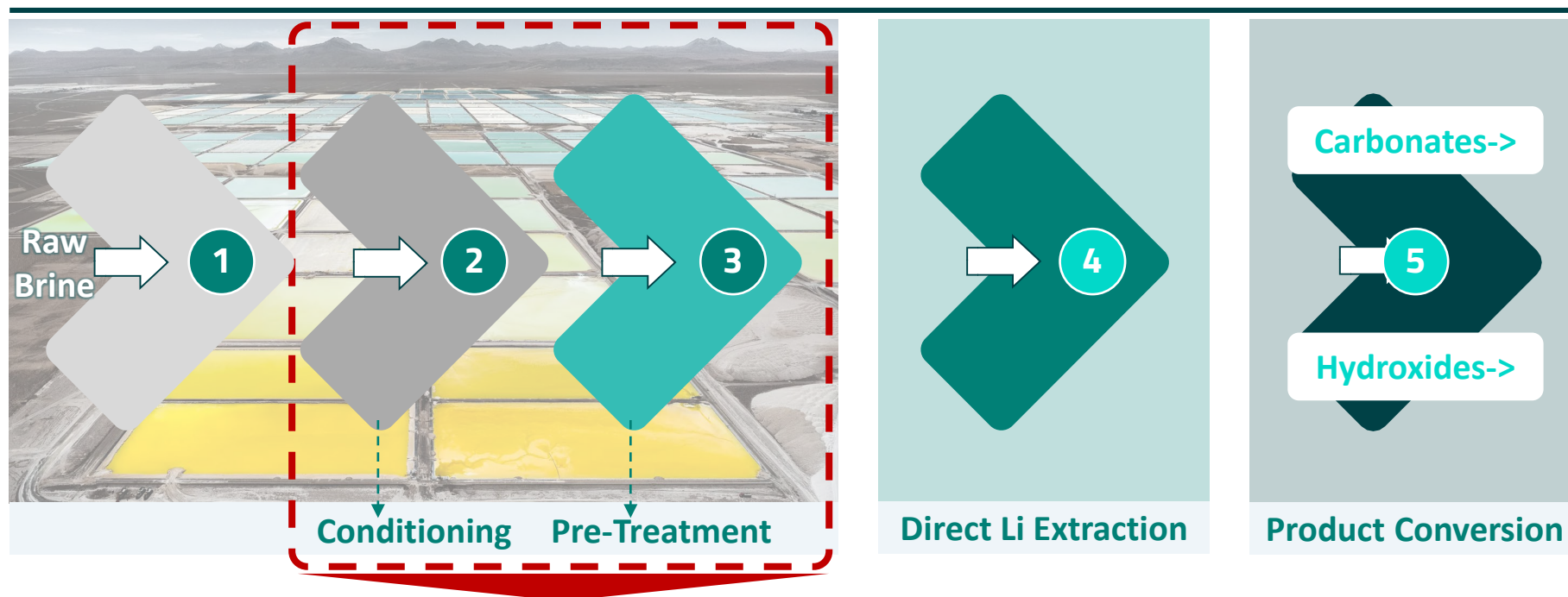
AcQUA™ Field Module for Brines



Expected Customer Payback Period:
<12 Months¹

AcQUA™ ENABLES DLE

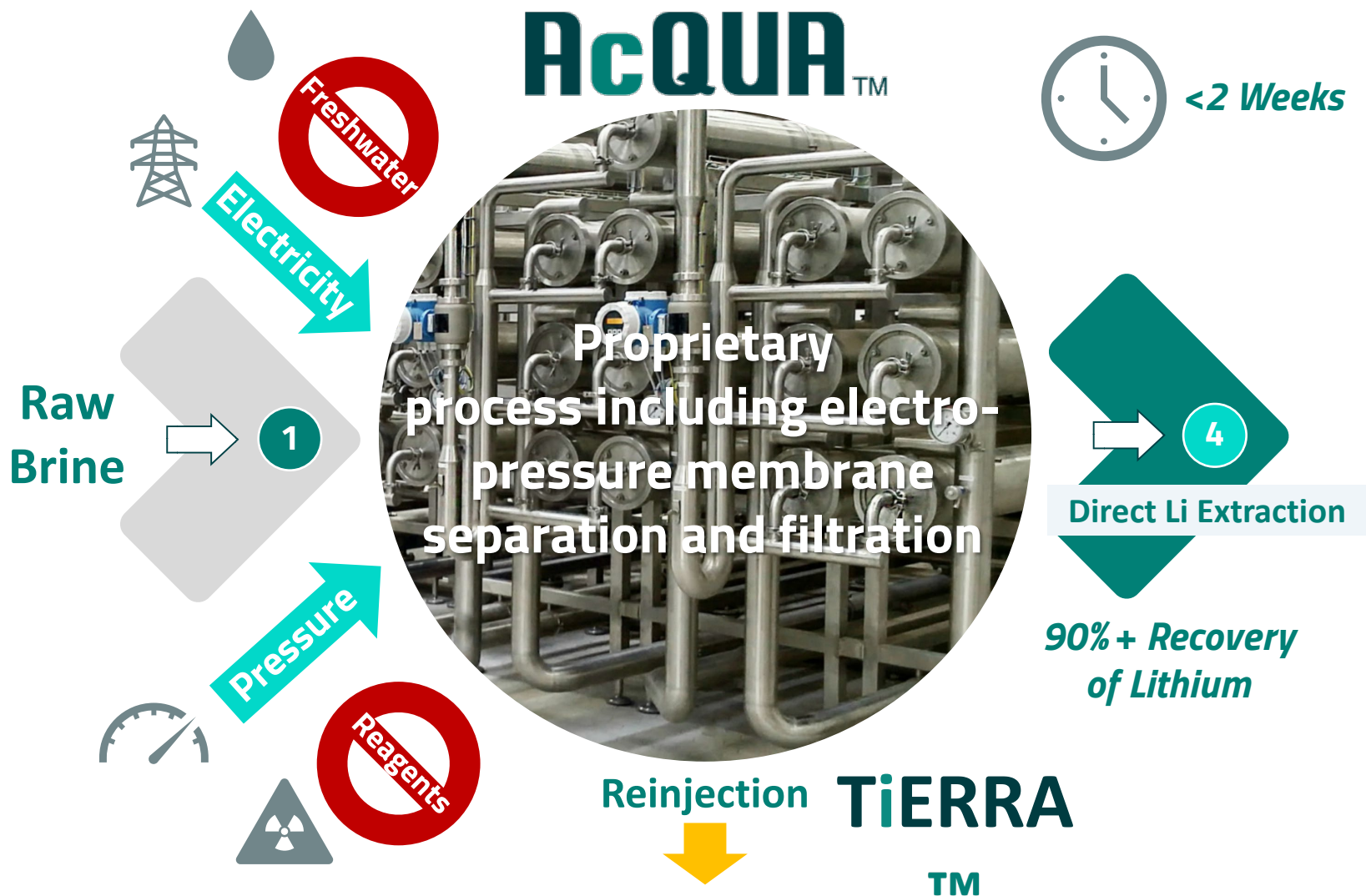
Lithium Brine Value Chain



- Pre-treatment issues represent **THE key bottleneck** to the commercial viability of DLE technologies
 - All existing DLE technologies are still reliant on evaporation ponds for pre-treatment
 - Evaporation ponds are prohibited in the US and being phased out by the regulator in Chile
- Lithos's AcQUA™ technology solves the pre-treatment challenge for DLE by eliminating the need for evaporation ponds**
 - TiERRA™ re-injection technology allows existing brine producers to accelerate brownfield expansion projects by mitigating net water consumption

AcQUA™ TECHNOLOGY

Patented process requires only electricity and pressure to produce Lithium concentrate and eliminates need for freshwater and reagents



MARKET SIZE

TAM – Current (2024):

\$14 Billion

350,000-ton LCE / year cumulative current lithium brine productions

TAM – Projected (2035):

\$130 Billion

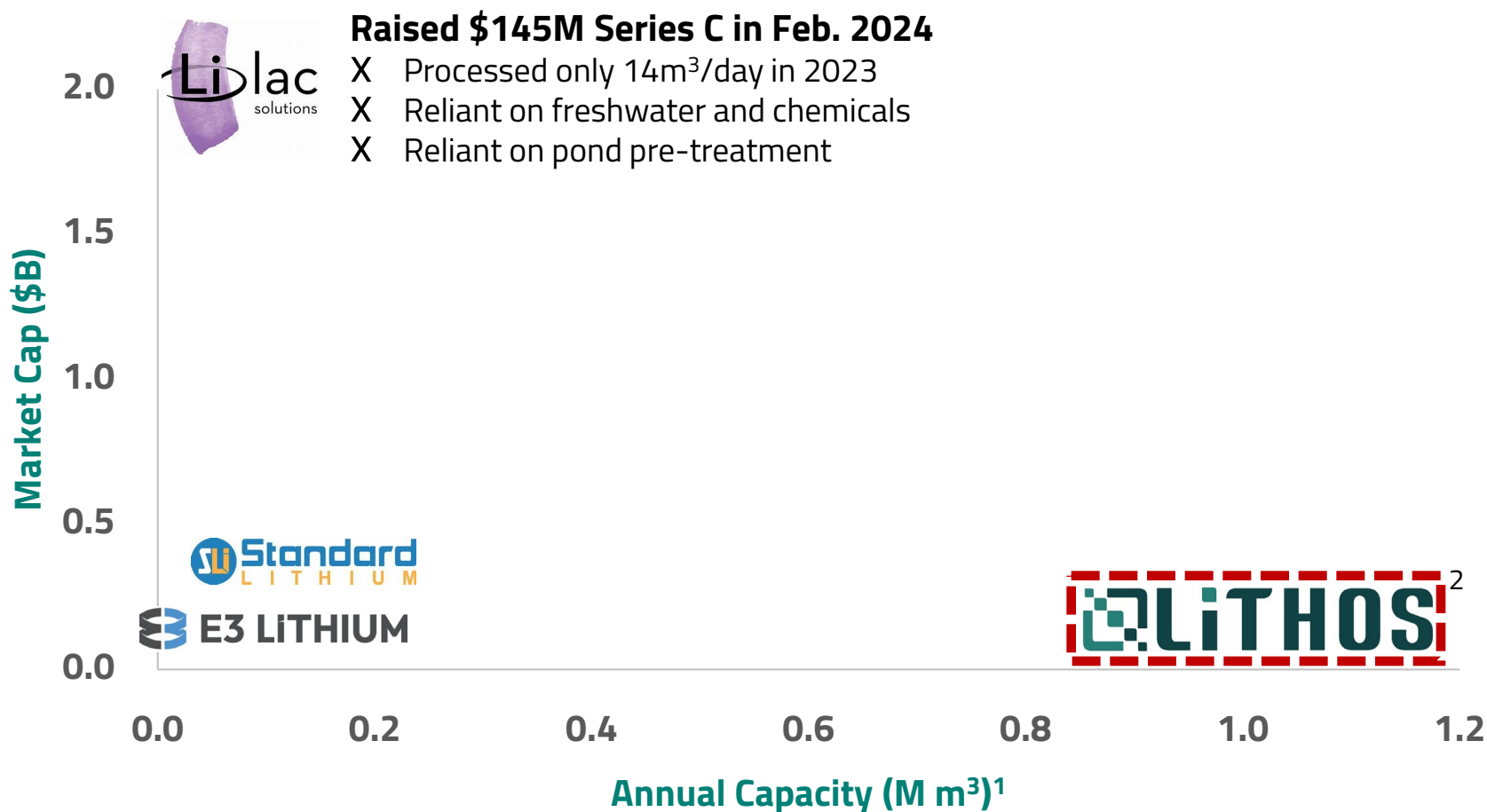
Additional 3.3 million-ton LCE / year requirement by 2035¹



COMPARATIVE LANDSCAPE

Commercial value of AcQUA™ has yet to be recognized by the market

- Competitor valuations have soared despite having inferior capabilities to Lithos



EXECUTIVE MANAGEMENT TEAM



Scott Taylor / CEO, Director Scott has over 20 years of direct experience spanning finance, energy, mining, defense, and civil engineering industries. Scott has scoped, built and sold over US\$250 million in technical solutions. Scott graduated from Franklin College (Lugano) Switzerland with BS in Finance 2002.



Christopher A. Green Ph.D. / CTO Chris holds a PhD in Physical Chemistry from Salford/UMIST and a MS in Petroleum Engineering from the Colorado School of Mines. Chris has 28 years professional experience in the energy industry. Chris has worked internationally managing interdisciplinary teams spanning chemical- and reservoir engineering project management competency.



Joe Fuqua / COO Joe brings over 20 years of experience across technology, entrepreneurship, and investment funds to LiTHOS. He holds a BA Computer Science from Brown university and an MBA from UCLA Anderson School of Management.



Dino LaCapra / Chief Development Officer Dino has secured more than US\$2 billion in contracts implementing turn-key services focused on multi-year private and public partnerships to build, operate, and maintain integrated homeland security and renewable energy projects. He graduated with a BS in International Business from Barry University and holds an MBA from Georgetown University.



Michael Westlake / President, Director Michael has over 20 years of experience managing complex projects, predominantly in remote locations of the Canadian Arctic which come with major logistical and technical challenges. He holds a BS in Chemistry and Environmental Studies from the University of Victoria and a MS from the University of Edinburgh in Environmental Change and Sustainability.



Gabe Segal / VP – Strategy & Finance Gabe has over 10 years of experience in private equity, investment banking, and consulting, specializing in energy investments. He has actively participated in the underwriting and due diligence of numerous investments, both in advisory and principal investor roles. Mr. Segal holds a BS and a MS in Industrial Engineering from the University of Wisconsin-Madison.

FINANCIAL SNAPSHOT

- **Issued & Outstanding:** 83.6 million
- **Reserved for Issuance:** 16.5 million (+C\$4.3 million)
- **Insider Ownership:** 57%
- **Market Capitalization:** C\$60 million



Cboe LITS OTCQB LITSF



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