

# MONGOLIA'S FIRST LITHIUM BRINE EXPLORER & DEVELOPER

TSX-V: ION FRA: 5YB

OTCQB: IONGF

September 2022



#### DISCLAIMER

#### **LEGAL**

This presentation includes certain statements that may be deemed "forward looking statements". All statements in this presentation, other than statements of historical facts, that address events or developments that Ion Energy Ltd. (the "Company") expects to occur, are forward looking statements. Forward looking statements are statements that are not historical facts and are generally, but not always, identified by the words "expects", "plans", "anticipates", "believes", "intends", "estimates", "projects", "potential" and similar expressions, or that events or conditions "will", "would", "may", "could" or "should" occur. Although the Company believes the expectations expressed in such forward looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results may differ materially from those in the forward looking statements. Factors that could cause the actual results to differ materially from those in forward looking statements include market prices, exploitation and exploration successes, and continued availability of capital and financing, and general economic, market or business conditions. Investors are cautioned that any such statements are not guarantees of future performance and actual results or developments may differ materially from those projected in the forward looking statements. Forward looking statements are based on the beliefs, estimates and opinions of the Company's management on the date the statements are made. Except as required by securities laws, the Company undertakes no obligation to update these forward looking statements in the event that management's beliefs, estimates or opinions, or other factors, should change. The information provided in this presentation is not intended to be a comprehensive review of all matters and developments concerning the Company and should be read in conjunction with the other disclosure documents of the Company. The information contained herein is not a substitute for detailed investigation and analysis. No securities commission or regulatory authority has reviewed the accuracy or adequacy of the information presented.

#### **TECHNICAL**

The technical information in this presentation has been approved by Khurel Lamzav, P. Geo of the Company and a Qualified Person as defined by National Instrument 43-101 – Standards of Disclosure for Mineral Projects.



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#### **OUR LEADERSHIP**



**ALI HAJI** CEO/Director

Director of Antler Hill Mining Ltd, Spirit Banner II Capital Corp. and CEO & Director of Aranjin Resources. 13+ years international experience (asset management, risk analysis and program governance). Advisor to ATMA Capital Markets Ltd and Steppe Gold TSX:STGO. BSc from University of Western Ontario



**MATTHEW** WOOD Chairman of the Board

Chairman of Steppe Gold TSX:STGO & Aranjin Resources (TSXV:ARJN), Founding Chairman of Avanco Resources (sold in March 2018 for AUD\$440M) and Hunnu Coal (sold for AUD\$500M in 2012).



**WENDY** Director, Asia

18+ years of extensive commercial and business development experience in Asia, including Mongolia and China. with Noble Resources Ltd and SouthGobi Resources Ltd. BA (Hon) from Wilfrid Laurier University, in Waterloo, Canada.



BATAA **TUMUR-OCHIR** Director

A Mongolian Citizen that serves as CEO and Director of Steppe Gold TSX:STGO. Mr. Tumur-Ochir is an advisor to the Ministry of Mining and Heavy Industry, Holds a bachelor's degree in business administration and graduate certificates in international business and marketing from Australia and Singapore.



TSX:STGO. Director of Antler Hill

Capital Corp, Founder of ATMA

Dundee. MBA from Goodman

Management at John Molson

in investment banking at

Institute of Investment

School of Business.

ANEEL **WARAICH** Director

Over 30 years of Mongolian mineral EVP and Director of Steppe Gold experience for multi-nationals. Credited for having discovered Mining Ltd, CEO of Spirit Banner several prospective gold. molybdenum and copper deposits, and ATMACORP with experience including the Olon Ovoot multimillion ounce gold deposit.





**JOHN MCVICAR** CPA, CA CFO

Brings more than 30 years of international business experience in Management Consulting and Finance. His previous roles include Consulting Partner at a Big 4 firm, CFO of a TSX-listed company and several regional finance leadership roles with large U.S. and Canadian multinationals in Canada, the U.S., South America and Asia. Is a CPA, CA and graduated with an MBA from Duke University and a B. Comm from Queen's University.



PAUL **FORNAZZARI** Advisorv **Board Member** 

Served as inaugural Chair of Lithium Americas and secured its initial strategic investments from Mitsubishi and Magna International. Former Director of Neo Lithium Corp. Currently, Paul is a partner with Fasken Martineau DuMoulin LLP, where he is head of Latin America for the Global Mining Group, and is also a member of the TSX-V's National Advisory Committee. Holds an LLM from Osgoode Hall Law School in Securities Law and an LLB from the University of Windsor.



**DON HAINS** Advisory **Board Member** 

President of Hains Engineering Company Limited and Principal of Hains Technology Associates. An industrial minerals exploration and economic geologist with +30 years of experience in exploration, development, use and analysis of industrial minerals properties and materials. Has a particular focus on critical and energy related minerals such as lithium. Has written numerous NI 43-101 technical and due diligence reports on lithium projects across the Globe.



DR. KHASHBAT **DASHTESEREN** Special Advisor

A PhD lithium hydrogeologist with extensive resource exploration experience in Mongolia. Served with Mongolia's Department of Urban Development and Investment, as Chief Geologist and then as CEO at Geolink LLC. Has spent many years researching laboratory analysis methods for lithium at the Akita University in Japan. A Professional Geologist accredited by the Mongolian Professional Institute of Geology and Mining, and a Professional Engineer accredited by the Mongolian Ministry of Mineral Resources and Energy.



DR. MARK KING Advisory **Board Member** 

Principal Hydrogeologist of Groundwater Insight Inc. (GWI), with more than 35 years of experience in groundwater research and consulting. Dr. King has a strong and varied background in lithium brine evaluation, serving as technical lead on more than 30 brine investigations including QP for numerous NI43-101. SEC and JORC reports, including for Lithium Americas, Albemarle and NeoLithium.



DR. DAVID **DEAK** Advisory **Board Member** 

An entrepreneur whose expertise spans across lithium mining development, battery supply chain developments, energy storage, renewable energy, and electric vehicles. He is President of Marbex LLC, was formerly the CTO and SVP of Lithium Americas Corp., and is an alum of Tesla Inc., Ambri Inc. (MIT start-up), Lux Research Inc., and Siemens Wind Power. He was educated at the University of Toronto and Oxford University.



#### **OUR STORY**

In 2017, our co-founders, Ali Haji and Matthew Wood, identified an opportunity for lithium exploration and development while on a trip to Mongolia for another mining entity.

They recognized that our world was on the brink of a Green Revolution and that the move away from fossil fuels would create unprecedented demand for battery metals, including lithium.

Ali and Matthew started discussions with the Mongolian government about the potential for lithium in-country – and the vision for ION Energy was born!

#### **CORPORATE OVERVIEW**



#### THE WORLD IS GOING ELECTRIC

ION Energy is ready for the 3rd wave of the clean energy revolution & the increased Lithium demand



#### WHY MONGOLIA?

- Untapped and unlimited potential for lithium
- Management successfully operating in Mongolia for over a decade, with a combined 150+ years of mining and exploration experience
- Mongolia's mining industry contributes towards 20% of the nation's GDP & 80-90% of its export
- Government increasingly prioritizing regulatory change to make it an investment-friendly environment
- China is the world leader in manufacturing lithium batteries, and continues to outpace the globe in demand for EVs
- Evidence of Mongolia's value proposition: Rio Tinto \$5B commitment & Zijin/Xanadu strategic partnership

Hunnu Coal AUD\$20M IPO 2010 Hunnu Coal Exit AUD\$500M Cash 2012



I ION ENERGY

Steppe Gold C\$25m IPO 2018

ION Energy C\$2.7m IPO 2020 The largest exploration licence in Mongolia:

# IONENERGY'S BAAVHAI UUL PROJECT

+81,000 hectare (almost 200,000 acre) highly-prospective site



# BAAVHAI UUL PROJECT

#### PRE-ACQUISITION RESULTS

- All holes drilled contain **significant** levels of Lithium
- Average grade 426 ppm Lithium
- Maximum grade 811 ppm Lithium
- High evaporation and low precipitation endorheic basin, no outflow to external bodies of water

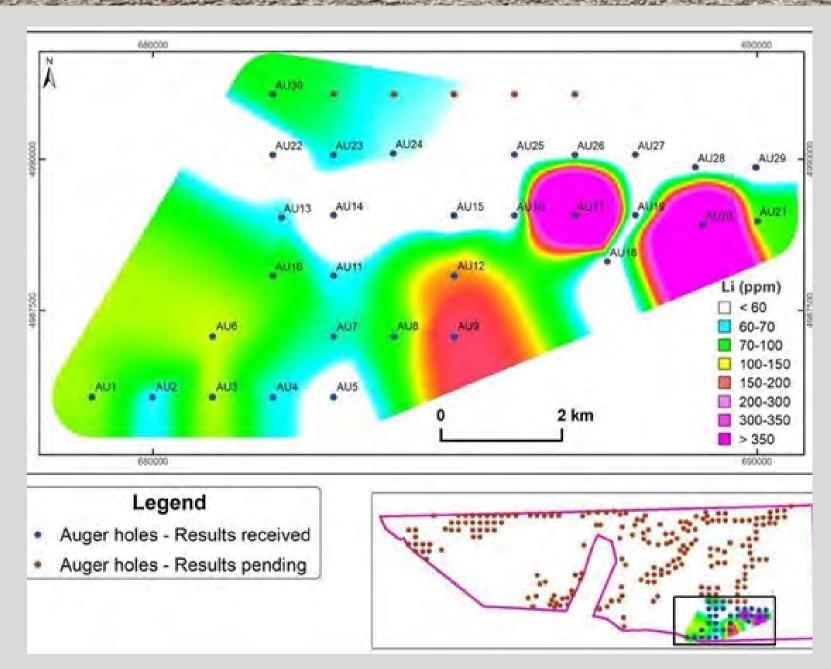


#### **GEOGRAPHICAL PROFILE**

- Low potassium and magnesium ratios: favourable for large crystal formation at license altitude and temperature
- Aquifers 20m below surface: Cretaceous volcanic and sedimentary rocks are the most suitable aquifer for the enrichment of lithium
- Brine vs hard rock sources = lower production costs
- Gobi Desert: arid environment with high evaporation rates
- 24km from the Chinese border



# MAIDEN DRILLING RESULTS: DECEMBER 2021



- Lithium Brines Encountered;
- Initial drilling results are highly encouraging;
- New Lithium Discovery Highlighted:
   White Wolf Prospect;
- A total of 222 auger drill holes have been completed for 1304.5 metres;
- Drill hole AU-17 returned results up to 1,502ppm Lithium; and
- A new Copper and Nickel discovery.



**Auger Rig at Baavhai Uul.** 

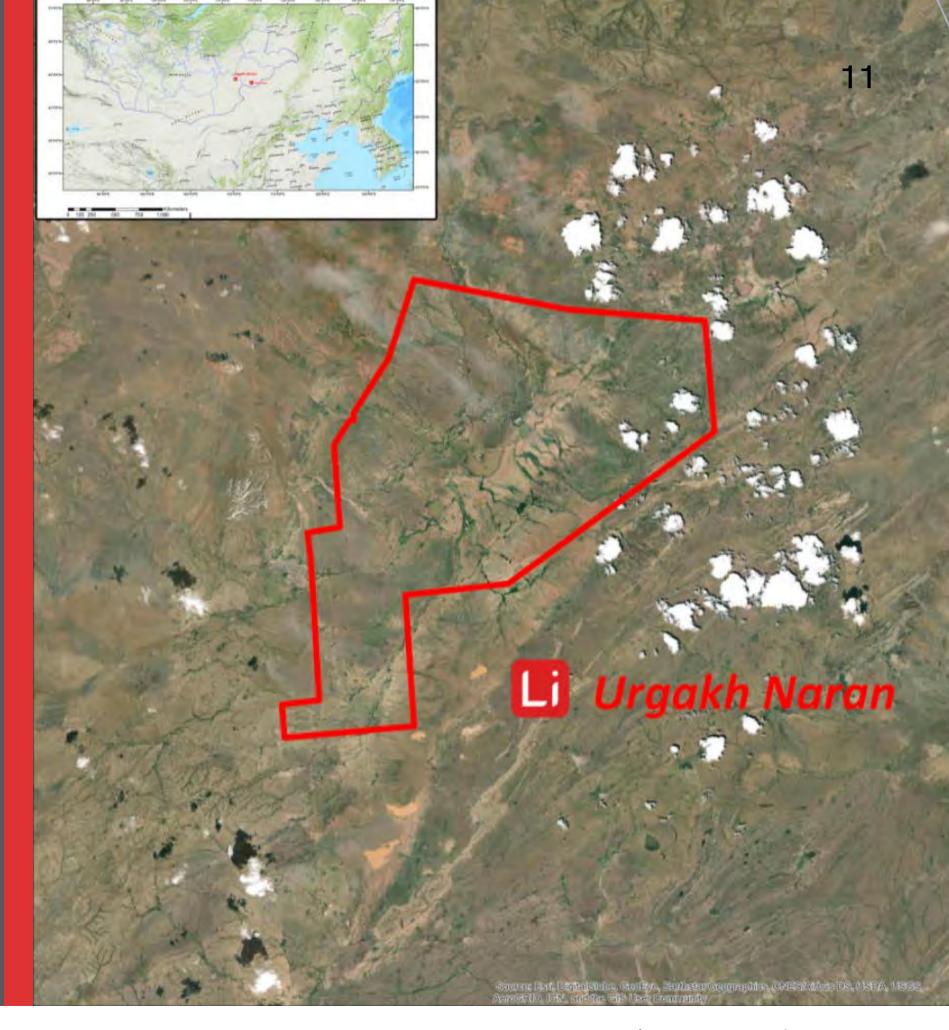
#### Brine being pumped to surface at Baavhai Uul.



Solidifying our commitment to the world's Green Revolution, as Mongolia's leading lithium explorer & developer:

# ION ENERGY'S URGAKH NARAN: RISING SUN PROJECT

Over 29,000 hectares (+70,000 acres) of highly prospective lithium terrain



# URGAKH NARAN LITHUM BRINE PROJECT

#### SIGNIFICANT BRINE DISCOVERY

- Situated in the arid and infrastructure rich region of the South Gobi Desert
- The brine sample was collected at surface from a shallow pool and assayed **918 mg/L** Lithium.
- The highest grade lithium brine known to have ever been collected in Mongolia





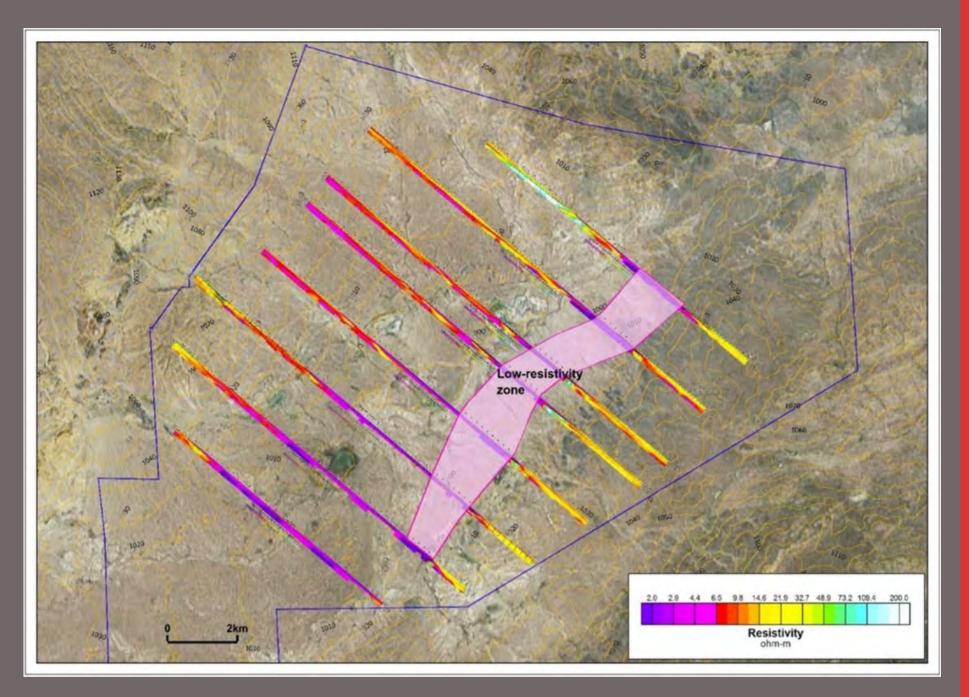


Figure 1: Low Resistivity Zone Illustrated Against Resistivity Sections

# MAIDEN EXPLORATION PROGRAM COMPLETED

- Successfully completed an 82 line-km TEM survey.
- All lines show resistivity beginning at a highly encouraging 0.2 Ohm, with a maximum resistivity of 500 Ohm, drawing similarities to assets in the Lithium Triangle.



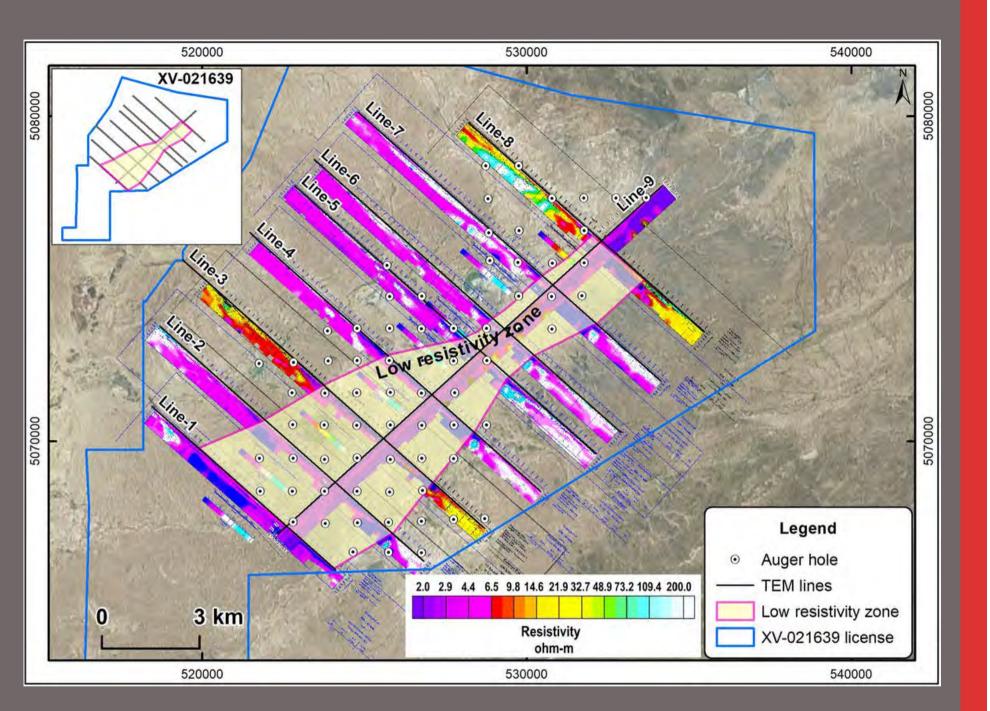


Figure 2: Low Resistivity Zone shown with lines 1 through 9.

#### **AUGUST 2022 SITE UPDATE**

- Completed an additional 16 line-km TEM survey, that intersects the previously announced 82 linekm completed
- Results indicate strong conductivity and low resistivity that is typical of a significant brine aquifer
- 22.7 billion cubic meter low resistivity aquifer volume measured

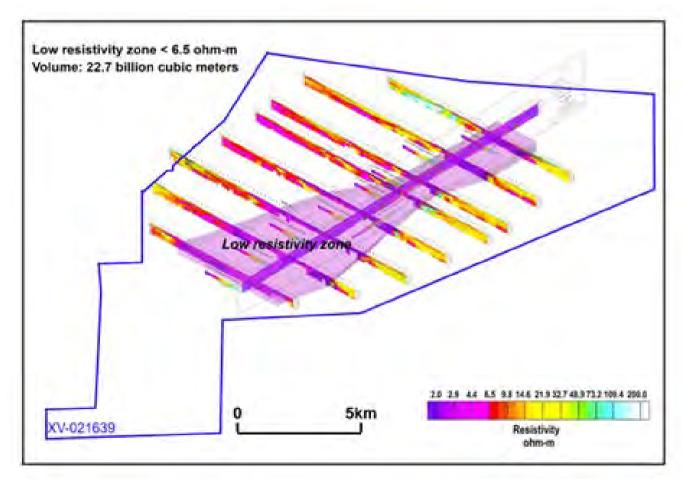


Figure 3: Low resistivity zone volume at Urgakh Naran.



## SENIOR TECHNICAL TEAM CONDUCTS STRATEGIC SITE VISITS - APRIL 2022

...The geology and morphology of the property is highly prospective, with some parallels to Nevada playa basins and South American salars. It was heartening to see some artisanal salt harvesting in the surface evaporite layers, contained in the low-lying dry ponds and lakes: a good indication of brine presence.

Dr. Mark King, PhD, P.Geo





# WHY ION ENERGY'S MONGOLIAN SITES ARE A GEOGRAPHIC ADVANTAGE

- Low cost and year-round operating environment
- Infrastructure rich location in Mongolia
- 30km by road to Mongolia-China border crossing
- Strong location advantage over South American producers: Mongolia set to become a major player in the lithium sector

# CHINA CONTINUES TO BE THE WORLD'S LARGEST ELECTRIC-VECHICLE MARKET

China is the world leader in manufacturing lithium batteries, and continues to outpace the globe in demand for EVs

Korea, Taiwan and Japan's large tech industries will continue to fuel demand for lithium batteries.

China dominates lithium production:
"77% of global lithium ion production capacity will be located in China by the end of 2021. Based on current plans in the pipeline, China will still hold 67% of global lithium ion cell capacity in 2030. (Benchmark Mineral Intelligence – 2021)

China is set for a sustained period of strong EV growth. Canalys forecasts 51% EV growth in China in 2021. EVs will represent one third of car sales in 2025.





#### LITHIUM & COPPER:

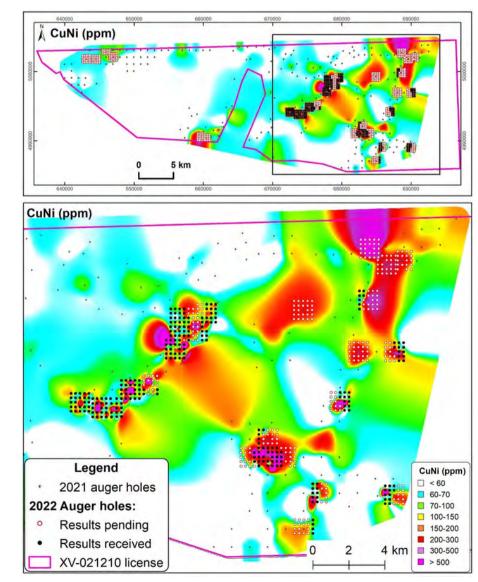
## A Battery Metals Strategic Alliance



#### **FEBRUARY 2022:**

#### ION Energy Enters into a JV Agreement with Aranjin Resources

- Aranjin is an emerging copper explorer in Mongolia;
- Highly-encouraging results at Aranjin's Sharga asset;
- Strong indications at our flagship Baavhai Uul show significant Copper and Nickel anomalies;
- ION's exploration acreage has been increased by 30kHa across mineral-rich regions of Mongolia;
- Alliance leverages the teams' technical expertise, and our CEO & Board's strong track record in Mongolia.



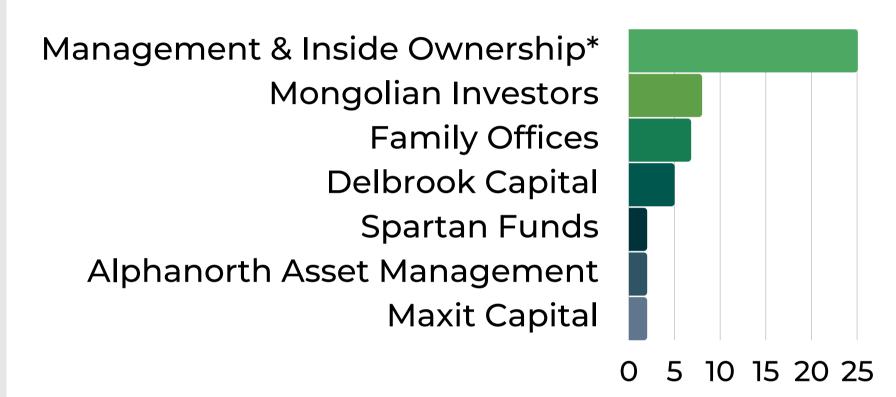
Auger program at Baavhai Uul Copper Nickel Discovery

#### **ION ENERGY LTD**

**OTCQB: IONGF, TSXV: ION** 

BASIC COMMON SHARES OUTSTANDING	60,468,534		
WARRANTS @70C (EXP. APR 13, 2024)	11,500,000		
OPTIONS @32C (EXP. OCT 21, 2025)	3,000,000		
OPTIONS @55C (EXP. FEB 3, 2023)	685,000		
FULLY DILUTED SHARES OUTSTANDING	71,525,671		
SHARE PRICE (AUGUST 26)	USD \$0.23 CAD \$0.30		
MARKET CAPITALIZATION (C\$)	USD \$13.1 M CAD \$16.4 M		

#### **OWNERSHIP**



\*Insiders and management are escrowed for 24months/2years (Aug. 31, 2022)

### STRATEGIC GROWTH

5

2021

The Urgakh Naran
Lithium
Brine Project:
acquisition of
~20,000 hectare
licence

1

2017

Our co-founders, Ali
Haji and Matthew
Wood, identified an
opportunity for
lithium exploration
in Mongolia



2019

The Baavhai Uul
Lithium Brine
Project:
acquisition of
80,000+ hectare
licence



2019

Spirit Banner and
ION Energy
Announce
Signing of
Definitive
Agreement



4

Commenced trading on the TSX-V: ION

ION Energy
commenced
geophysics (CSAMT
and reflection
seismic) study on
the Baavhai Uul
Lithium Brine
project.

2020

# OUR 2021/22 CATALYSTS DELIVERING ON AGGRESSIVE GROWTH

Commenced trading on OTC QB

Urgakh Naran acquisition & release of early exploration results from Baavhai Uul

Preliminary results from
Baavhai Uul maiden
drilling, with new
Lithium Discovery:

**White Wolf Prospect** 

CEO & Advisors: In-Country Site Visits

Completed maiden exploration at Urgakh Naran:

World Class Brine Discovery 918 mg/L Lithium **Early Resource Indication** 

Advance talks with Strategic Investment Partners

Q1 2021

Q2 2021

Q4 2021

Q1 2022

Q2 2022

Q3 2022

Q4 2022

Completed \$5.75 Million Bought Deal Offering with PI Financial & Stifel GMP:

Fully-cashed up for 2 year exploration & acquisitions plan

Announced JV Agreement with Aranjin Resources, an emerging Mongolian copper explorer

Strengthened team with a regional director with relationships & access to Asian Lithium giants

Commence hydrogeological sampling at Baavhai Uul

## OUR STRATEGIC ADVANTAGE

Price target \$ 1.12 for TSX-V: ION - May 2022

**Couloir Capital** 

Price target \$ 1.18 for TSX-V: ION - June 2022

FRC

Based on comparative analysis of junior lithium companies, a mid-second quartile price-to-book (P/B) ratio of 6.2 indicates a share price target for OTCQB: IONGF, at USD \$0.48 per share.

Zacks SCR

Comparable companies and the implied valuations offer a wide range from C\$286 EV/Hectare to C\$20,810 EV/ Hectare with a median of C\$3,715. This compares to ION Energy at C\$174 EV/Hectare.

**Stonegate Capital** 

Positioning Relative to the Third Largest Salt Flat in the World

#### Wealth Minerals Owns a Portion of Chile's Atacama Salar







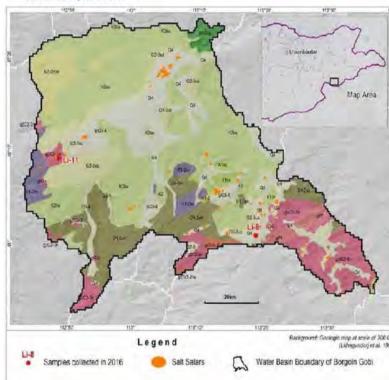




Atacama Salar Overview						
Total Atacama Salar Land Package (ha)	300,000					
Total Atacama Salar Max. Lithium Grade (ppm)	1,840					
Wealth Minerals Land Package (ha)	46,000					
Wealth Minerals Max. Lithium Grade in Chile (ppm)	1,250					
Wealth Minerals Exploration to Date	Limited to Surveying					
Proximity to Largest Market (China)	~15,000+ Nautical Miles					

#### Ion Energy Owns the Entire Baavhai Uul Basin in Mongolia





Ion Energy Portfolio Overview					
Baavhai Uul Land Package (ha)	81,759				
Additional Land Owned by Ion Energy (ha)	29,000				
Total Land Package Owned by Ion Energy (ha)	100,000+				
2016 Sampling Max. Lithium Grade (ppm)	8111				
Ion Energy Exploration to Date	Surveying, Sampling, & 800+ m of Drilling				
Proximity to Largest Market (China)	30 km				

## OUR STRATEGIC ADVANTAGE

(all figures in C\$M, expect per share information)

Name	Ticker	Price (1)	S/O	Mrkt Cap	EV	Hectares	EV/Hectare
Standard Lithium Ltd.	TSXV:SLI	\$ 7.22	162.3	\$1,167.6	\$ 1,031.0	75,343	\$13,684.3
Critical Elements Lithium Corporation	TSXV:CRE	\$ 1.37	205.2	\$ 282.5	\$ 246.6	24,655	\$10,000.4
Lake Resources NL	ASX:LKE	\$ 1.25	1,103.7	\$1,603.5	\$ 1,539.9	74,000	\$20,809.8
Lithium Power International Limited	ASX:LPI	\$ 0.51	348.8	\$ 179.6	\$ 165.8	51,263	\$ 3,235.2
Pure Energy Minerals Limited	TSXV:PE	\$ 1.22	32.9	\$ 40.1	\$ 39.6	9,454	\$ 4,194.0
Lithium Chile Inc.	TSXV:LITH	\$ 0.79	145.0	\$ 131.7	\$ 124.7	71,900	\$ 1,735.0
Wealth Minerals Ltd.	TSXV:WML	\$ 0.25	265.4	\$ 65.0	\$ 61.2	52,620	\$ 1,163.0
Bearing Lithium Corp.	TSXV:BRZ	\$ 0.25	109.1	\$ 27.3	\$ 26.5	4,463	\$ 5,933.5
HeliosX Lithium & Technologies Corp.	TSXV:HX	\$ 0.81	N/A	\$ 29.3	\$ 27.7	96,786	\$ 286.0
International Lithium Corp.	TSXV:ILC	\$ 0.10	248.3	\$ 24.8	\$ 14.5	31,426	\$ 461.9
					Average		\$ 6,150.3
					Median		\$ 3,714.6
Ion Energy Ltd.	TSXV:ION	\$ 0.36	60.3	\$ 21.5	\$ 17.5	100,759	\$ 173.6

### INVESTMENT SUMMARY

When you invest in ION Energy, you can count on our team with over 150 years of combined incountry, mining and lithiumspecific experience.

Since listing on the TSX Venture Exchange in 2020, we have rapidly forged ahead in following through on our strategic objectives, including a strategic exploration alliance with an emerging copper explorer and a \$5.75 million public offering to ensure that we have a fully-funded 2-year exploration & growth strategy.

#### **FULLY FUNDED**

We're fully-funded to continue our aggressive growth strategy

#### STRATEGIC LOCATIONS

Superior geographic locations in Mongolia and promising early results

#### WE'RE EXPERIENCED

Strong in-country team and proven track record

#### **RISE IN DEMAND**

Lithium is a commodity with high global demand

#### **MARGINS**

Low cost production profile

#### INVESTMENT

Well-positioned to create shareholder value

### **CONTACT US**



Contact our Chief Executive Officer, Ali Haji, to discuss your investment.



Ali@IONEnergy.ca



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