WE MUST SPEED UP THE ENERGY TRANSITION

CLIMATE CRISIS

- With an impending global climate crisis, it is vital that we swiftly move away from fossil fuels and transition to a renewable energy future.
- Earth's temperature is set to increase by 7-8°F degrees by 2100, requiring a rapid move towards sustainable sources.
- The intermittency of wind and solar power means that huge amounts of energy storage will be necessary and lithium-ion batteries are the best option.

ENERGY ACCESS

- We are aiming to have 500 million Electric Vehicles on the road by 2040 equating to millions of tons of battery materials including lithium which is a vital component.
- 1.2 billion people around the world have little or no electricity, but off-grid renewable energy solutions are quickly changing this.
- Energy access is life-changing: allowing children to study in the evening, charge their mobile phones at home and providing a safer source of power.

LITHIUM STOCKS & PRICES

- In the next 10-20 years, lithium will become one of the most demanded natural resources in the world.
- It will replace fossil fuels and become a leading source of renewable energy storage source, paving a path forward to a sustainable future.
- Society will see a paradigm shift in the value of lithium and other battery materials resources versus oil and fossil fuels.

THE SOLUTION

Through cutting-edge innovations and breakthrough solutions, EnergyX is working hard to solve these problems. As renewable energy demand soars, the need for efficient, low cost, large-scale energy storage systems is also rising. EnergyX looks to drive the growth of the global lithium industry while making low-carbon technology cheaper, sustainable and more accessible.

Lithium batteries have been identified as a major part of the future of any renewable energy transition, and their implementation in electric mobility and projects of various scales has shown just how versatile they can be. EnergyX is positioning itself to be a major player throughout the value chain from the production of raw materials for current lithium batteries to new solid state battery chemistries.

BRINE TO BATTERY

EnergyX has developed radical innovations impacting all aspects of the battery supply chain from lithium extraction, low cost production of battery grade cathode material precursors, new cathode materials, direct brine to lithium metal technology culminating in lithium metal anode and solid state batteries with high safety and energy densities.

OUR TECHNOLOGY

LiTAS™

To address lithium supply shortage, EnergyX has developed a portfolio of patented Direct Lithium Extraction Technologies under the aegis of LiTAS™ (lithium ion transport and separation). The portfolio of technologies makes efficient extraction of lithium from every lithium containing brine possible. In many cases, the use of LiTAS™ realizes a four fold increase in lithium recovery over conventional processes at the lowest cost and no precious fresh water usage. LiTAS also makes sustainable extraction of previously uneconomic resources possible enabling a massive increase in low cost green lithium supply.

SoLiS™

Next-generation batteries, will allow a whole new era of e-mobility and carbon emission reductions to become a reality. EnergyX is developing a critical element of solid state batteries, the solid electrolyte separator. The patented SoLiS™ (Solid Lithium-ion Separator) is a non-flammable, highly conductive, material that enhances safety and enables transition to next generation lithium metal anodes, thereby increasing energy density in batteries.

TEAGUE EGAN

CEO & FOUNDER

Teague Egan is the founder, CEO, and product architect of EnergyX. He is responsible for all aspects of building the company into a world leader in renewable energy technologies, primarily focused on commercializing the LiTAS™for lithium extraction and SoLiS™ solid state battery electrolytes.

With a background of entrepreneurship, investing, and inventing, Teague has been involved in public sector energy assets and sustainable technologies, including a large bet on Tesla in 2013 at $9 per share. Prior to EnergyX, he started or has been involved with a variety of businesses, and is also the inventor of energyDNA - a patented multi-component graphene textile fiber technology. In 2012, Teague founded Innovation Factory VC, a venture capital fund focused on tech, life sciences, real estate, space and consumer products.

Teague is actively involved with several philanthropic efforts and is an alumnus of the USC Marshall School of Business. He also studied exponential technology including artificial intelligence, synthetic biology, and nanotechnology at Singularity University. Teague has a mission to transition the world to sustainable energy.

"Thomas Edison is a hero of mine. I envision EnergyX playing a role in the global energy transition to develop and commercialize a variety of technologies that move the transition forward. Direct Lithium Extraction and Solid State Batteries are the first two areas we are focused on.
When it was proven electric vehicles were economical, every single car company added them to their product road map. The demand for batteries is skyrocketing and we are going to ride that wave."

EnergyX's technology was developed with:

- The University of Texas at Austin
- Monash University
- CSIRO (Australian National Laboratory)
- Membrane Technology and Research
- U.S. Department of Energy

MEMBRANES

COMPLIMENTARY TO EXISTING PONDS

1. Suitable for operating Li producers
2. Bipolar membrane Electrodialysis allows for Direct-to-LiOH conversion
3. Complimentary to any Pond or with Solvent or Adsorbent Technologies
4. Modular, low CapEx & OpEx

SOLVENTS

STAND ALONE DIRECT LITHIUM EXTRACTION

1. Suitable for greenfield (no ponds) or complimentary to ponds
2. Best for medium Li concentration brines
3. Enables Direct Conversion
4. Modular, low CapEx & OpEx, maximum flexibility

ADSORBENTS

STAND ALONE DIRECT LITHIUM EXTRACTION

1. Suitable for greenfield (no ponds)
2. Suitable for low Li concentration brines
3. Best in class kinetics and stability
4. Higher initial CapEx

90% LITHIUM RECOVERY RATE

1-2 DAYS CONTINUOUS PROCESS

MINIMAL FRESH WATER NEEDED

LOWEST CAPEX & OPEX

ENERGYX

POWERING THE FUTURE

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