

the opportunity.

Demand for lithium has increased by 72% in the past 4 years with the price of lithium increasing 496.7% in 2021. It is forecast that in the next 8 years demand will increase by a further 317%. This is driven by the global move towards battery powered vehicles and the growing requirement for new energy storage methods.



72% Increase in demand for lithium since 2018

(Statista - 2021)

496.7% 317%

Lithium price increase in 2021 (Trading Economics - 2021)

Demand is forecast to increase by 2030

(Statista - 2021)

Problem Existing land based reserves of lithium will be exhausted in the next twenty years at current rates of consumption. Manufacturers of batteries for electric vehicles, whose preferred battery metal is lithium, need to find a long term, sustainable solution to this issue.

Solution

Aqualithium's innovative solution to commercially extract lithium from seawater is at the forefront of this technology race.

the value propostion.

Improved separation technology unlocks lithium from previously untapped resources.

Research and process engineering have shown how to reduce the cost of separation.

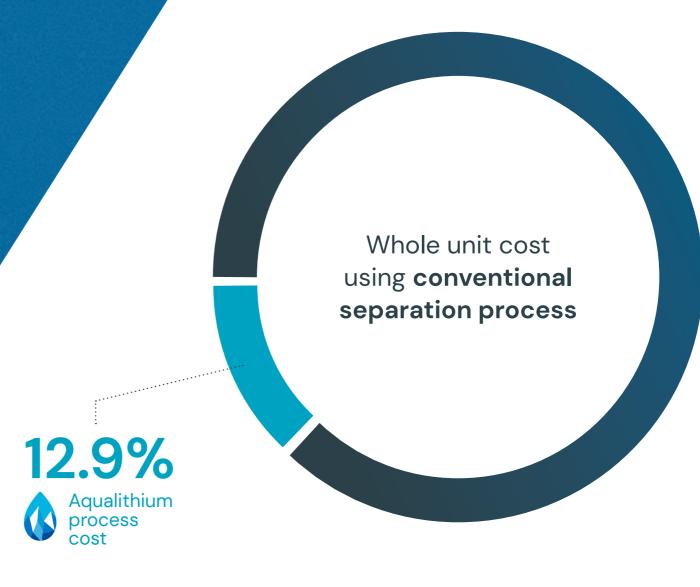
87.1%

Aqualithium's process reduces separation cost. Further optimisation is possible.

Aqualithium's partner, Bath University, have successfully extracted lithium from seawater in a laboratory at their Department of Chemical Engineering.

Bath University's innovative process combines adsorption separation and nano-filtration membranes.

Lithium separation cost reduction

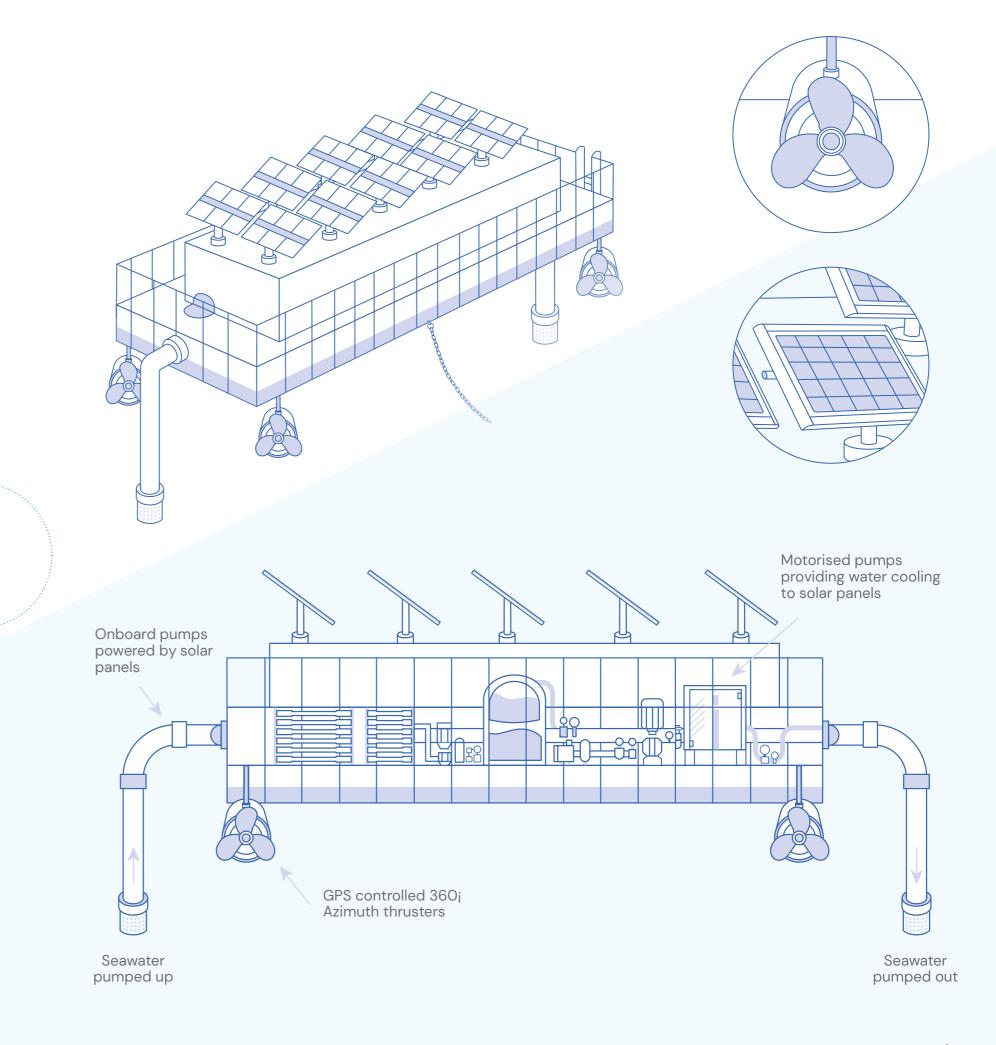


the harvester

The Aqualithium Harvester

(patent applied for number 2002260.4)

The Aqualithium Harvester will be a world first; a floating solar powered lithium extraction system, efficiently collecting lithium from an endless supply in a sustainable, ecologically and environmentally sound way that produces no seaborne waste product and uses no fossil fuel power.



A group of eminent researchers led by a team with commercial acumen, experience and a proven track record for project delivery.



Sir Rodney Walker Chairman Seasoned Campaigner



David Oddie CEO **Experienced CEO**





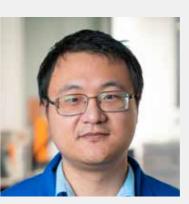
Professor Semali Perera Univ. Bath Leading expert in nano-filtration



Dr. Yannis Wenk Univ. Bath Leading expert in extraction from liquids



Founder Director Filtration expert



Dr. Ming Xie Univ. Bath Leading expert in membranes



John Jeffrey Director Troubleshooting Business mentor



Geoff Turral NED Former CEO Porsche

the market.

The demand for Aqualithium's technological knowhow will come from companies producing lithium carbonate and lithium hydroxide.

Key Metrics

\$37.4 billion

The lithium-ion battery market worth in 2019

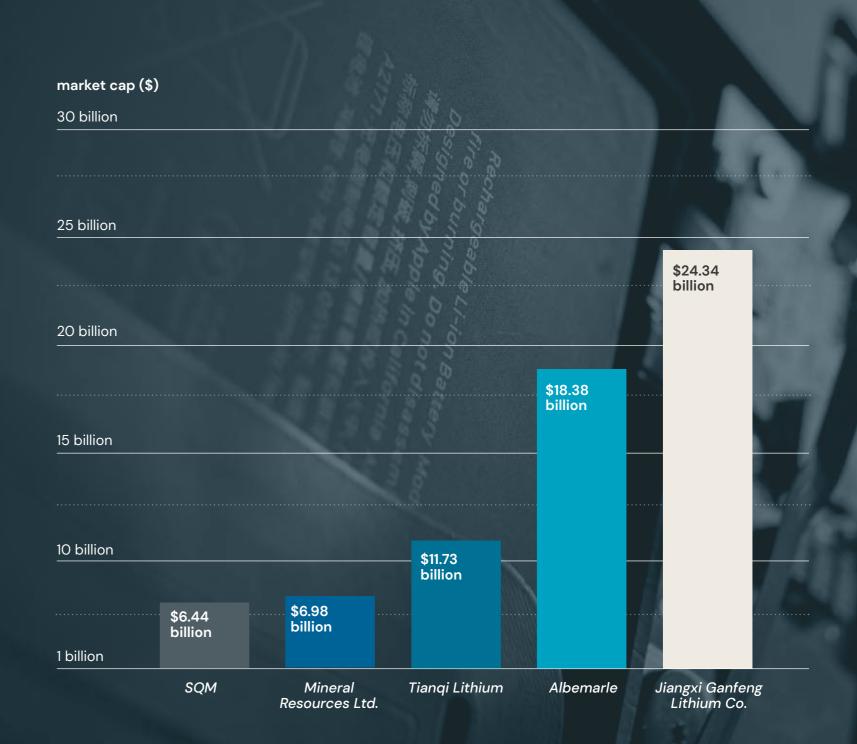
18%

CAGR - Compound annual growth rate. 2020 - 2027

\$129.3 billion

Lithium-Ion Battery Market forecasted to reach by 2027

(Business wire - 2020)



Companies producing lithium carbonate and lithium hydroxide

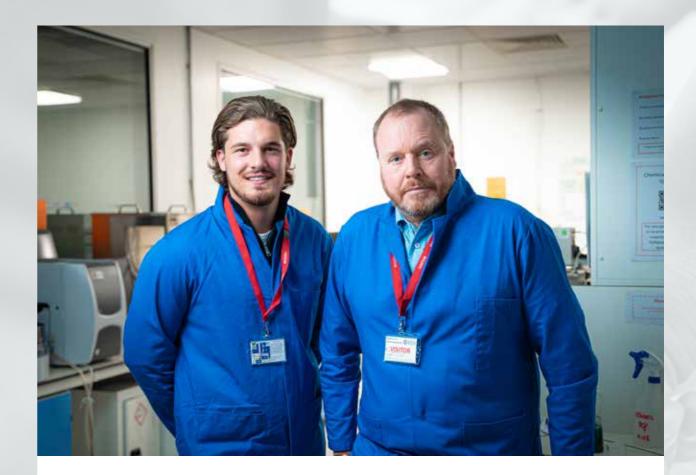
(Mining Global- 2021)



Aqualithium is...

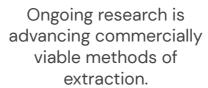
a research partnership with a technology driven approach.

- Preliminary engineering has yielded a viable process design.
- Comprehensive availability of grant funding support.
- Aqualithium are the leading collaboration in the field of aqueous lithium extraction.



Proprietary Technology.







Comprehensive feasibility study results are published.



Patents already filed.

competitors and customers.

Producers of lithium are potential customers rather than competitors. Aqualithium's revenue will come from the sale or licensing of know-how.

The efficiency of Aqualithium's separation process is the valuable commodity.

Samco

A US based company specialising in process separation and filtration solutions to a diverse range of industries.

Lilac

A US based company with recent investment from Bill Gates and Jeff Bezos aiming to build a facility next to a geothermal power plant with the aim of extracting lithium from the wastewater.

Britishvolt

A U.K. base company currently building the first lithium battery giga factory in the North East of England.

Cornish Lithium

A UK based company who are currently prospecting in South West England with the aim of discovering and extracting lithium from underground brines. They are also working with Geothermal Engineering Ltd , a UK company deep drilling for geothermal waters capable of providing the hot water required by a geothermal power plant.

milestones/ financial projections and key metrics.

Since Aqualithium's inception in September 2019, they have :

- Accurately identified a need.
- Assembled a top team.
- Partnered with credible research partners.
- Identified technical and financial resources.
- Engineering research commissioned.
- Process design produced.
- Filed patents.
- Attracted attention in the market.
- Established credibility.
- Worked in partnership with the Centre for Process Innovation.
- Gained EIS tax accreditation.
- Extracted lithium from sea water in a laboratory environment.
- Applied for Innovation Grants.



the investment proposition.

First round of funding allocation:

Aqualithium Harvester Development

- Research and development of Aqualithium Harvester.
- Creation of AutoCAD model of Aqualithium Harvester.
- Creation of 3D printed working desktop model.
- DWG engineering drawings of full scale Aqualithium Harvester.
- Manufacture of scale model of Aqualithium Harvester.
- Patent filing.

28% - Overheads

- Office costs.
- Staff wages.
- Director's remuneration.
- Business operating costs.
- International patent publication.
- Insurance.

65% - Research

- Research and development of filtration methods by University of Bath.
- Proof of concept study on extraction methods.
- Extract lithium carbonate from sea water in laboratory environment.
- Absorbent materials regeneration and membrane fouling study.
- Membrane and nano filtration manufacture.
- Patent filing.

7% - Other

- Travel costs.
- Other expenses incurred.

Aqualithium Harvester development

65%
Research



28% Staffing and overheads

Other

£500k

Investment Target

+120x

Forecast return on profit for investers

4/6 years

Planned exit via trade sale

EIS tax relief

Funding breakdown

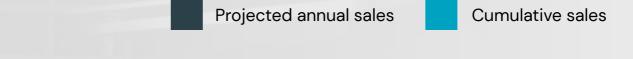
www.aqualithium.com

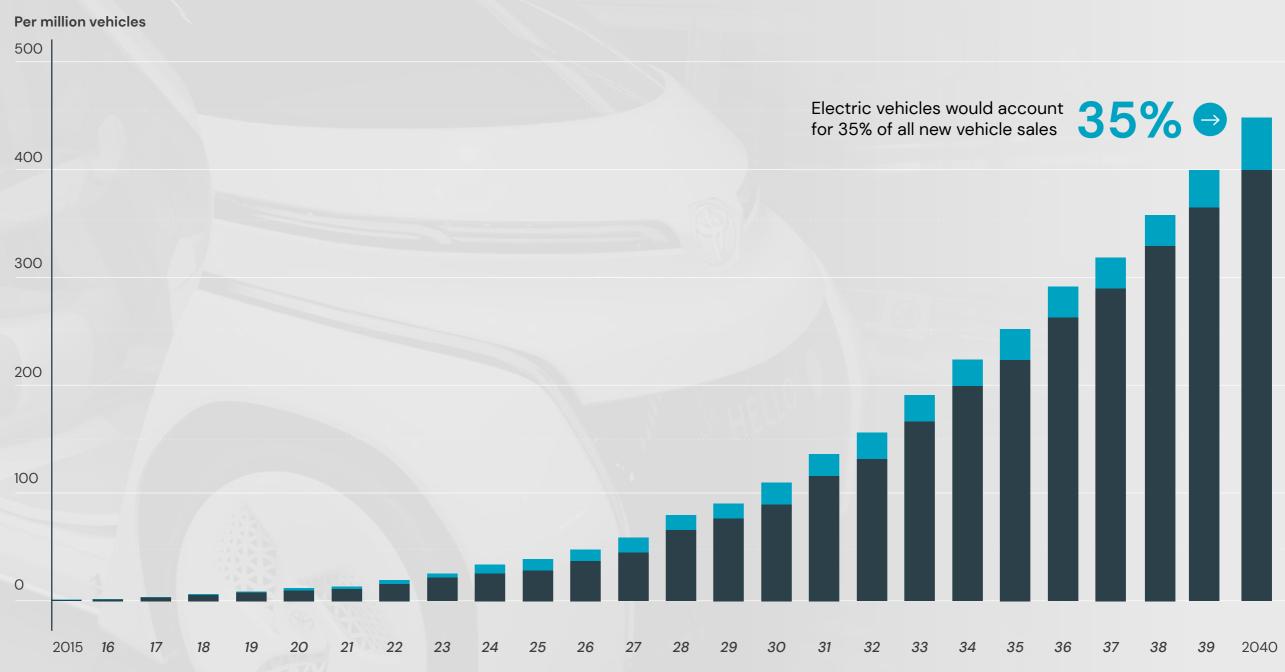
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The rise of electric cars

By 2022 electric vehicles will cost the same as their internal combustion counterparts.

(Bloomberg - 2021)





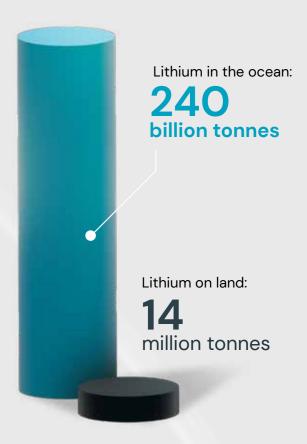
The demand for lithium carbonate

By 2030* the predicated demand for lithium carbonate will be over 1700 metric tonnes per year.

(Statista - 2021)

Demand in metric tonnes





Lithium in the ocean compared to land based lithium

(U.S. Geological Survey - 2021) (Science org - 2021)

How metal prices performed in 2021

(Tradingeconomics-2020)

