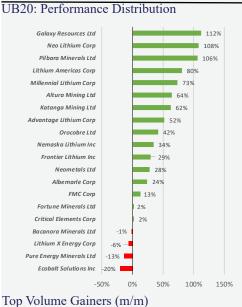
Battery Metals Index

August 28, 2017 - October 23, 2017

UB20: 32.4% (93.5% Y/Y)
TSX-V: 1.4% (0.4% Y/Y)
Global X Lithium ETF: 19.7% (53.6% Y/Y)

Dollar amounts in CAD unless otherwise stated.







Chris Thomson | Head of Research | Ubika Research | Chris@UbikaResearch.com | 1 (416) 574-0469 Patrick Smith | Analyst | Ubika Research | Patrick@UbikaResearch.com | 1 (647) 444-5506 Yousuf Shekhani | Associate | Ubika Research | Yousuf@UbikaResearch.com | 1 (647) 607-0691

Battery Metals Stocks Charge Higher: Ubika Index Update

The Ubika Battery Metals Index is up 32% since our last report dated August 28, 2017, as the Index outperformed its benchmarks TSX-V Index and the Global X Lithium and Battery ETF, which gained 1% and 20%, respectively, over the same period. Notable performers for this report include:

- 1. Galaxy Resources Limited (ASX:GXY): which returned 112%, following two consecutive quarters of increased production.
- 2. Advantage Lithium (TSXV:AAL), whose stock price increased 52% in anticipation of positive drill results.
- 3. eCobalt Solutions (TSX:ECS), which decreased 20% following the release of its new Feasibility Study.

Industry Highlights:

- Jiangxi Special Electric Motor Ltd takes a \$20mm stake in Tawana Resources. The Chinese electric vehicle manufacture took an 11.5% stake in Tawana Resources, an Australian lithium exploration company. Tawana owns 50% of the Bald Hill lithium and tantalum mine in Australia, which is expected to begin shipping in March 2018.
- China's Great Wall Motor Company agrees to take a \$27.9mm stake in Pilbara Minerals Ltd, as part of an off-take agreement. On September 28, China's largest SUV manufacturer agreed binding terms for 75,000 tonnes per annum (tpa) of chemical grade spodumene, with the option to double its offtake to 150,000 tpa, by providing Pilbara with US\$50mm in debt financing. As part of the agreement, Great Wall also agreed to an upfront \$27.9mm equity subscription.
- BHP Billiton expects to accelerate its nickel sulfate expansion to meet battery demand. During August, the Australian mining company announced it plans to spend more than \$43mm at its Kwinana refinery in Western Australia. The refinery processes the Nickel West operation. The expansion is anticipated to produce 100,000 tonnes per year of nickel sulphate hexahydrate, the major component used in lithium-ion batteries. The first stage is expected to be completed by April 2019 and the second stage is expected to double production to 200,000 tonnes per year. This would make Nickel West the largest global nickel sulphate operation.

Upcoming Conferences:

MineLatinAmerica Seminar - November 23, 2017, Toronto, Canada. The event features Latin American mining projects, as well as technical presentations and panel discussions.

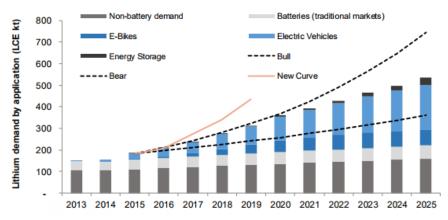




Lithium Demand:

The electrification of transportation led by China has sent lithium stocks surging over the past year. As shown below, the strong upwards trend is set to continue over the next few years as global manufacturers shift towards electric vehicles. According to the table below, Lithium demand is expected to double by 2021.

Figure 1: Lithium Demand Forecast



Source: Neo Lithium Corp. Presentation

Change in Constituents:

As part of our aim to provide readers with relevant and insightful industry reports, we conduct periodic reviews of our index constituents to determine whether they meet the overall criteria for inclusion. As a result, we have removed Altius Minerals Corp (TSX:ALS), Highlands Pacific Ltd (HIG:ASX), Lonmin PLC (LMI.L), Lundin Mining Corp (TSX:LUN), Independence Group NL (ASX:IGO), SQM Chile (NYSE:SQM) and Tiger Resources Ltd (ASX:TGS) from the Ubika Battery Metals 20 Index

The new constituents for the Ubika Battery Metals 20 Index include Pure Energy Minerals Ltd (TSXV:PE), Advantage Lithium Corp (TSXV:AAL), Lithium X Energy Corp (TSXV:LIX), Bacanora Minerals Ltd (TSXV:BCN), Frontier Lithium (TSXV:FL), Neo Lithium Corp (TSXV:NLC), and Critical Elements Corp (TSXV:CRE).

As we aim to shift the Ubika Indices to an investable index model, we have decided to switch to an Equal Weight Index. The new Index is like a portfolio, or an index fund, as it gives each stock an equal weighting.





Notable Performers:

Galaxy Resources Limited (ASX:GXY)

Galaxy Resources is an Australian-based lithium producer with assets across the globe. The Company operates one facility, and has two projects under development. The stock has increased 112% since our last report date, following the release of strong quarterly earnings, and amid ongoing rumors of a pending supply agreement between the Company and Panasonic, which supplies Tesla's car batteries.

The Company's Mt. Cattlin facility comprises a spodumene (lithium concentrate) and tantalum mine, and a processing operation located two kilometers north of Ravensthorpe in Western Australia. The Company mines spodumene at Mt Cattlin and sends the ore to its hydrometallurgical processing facility. At the facility, the ore is processed and sold as dried concentrate. As per existing offtake agreements, Galaxy agreed to sell 120,000 tonnes of lithium concentrate, grading a minimum of 5.5% Lithium Oxide to customers in China. Furthermore, the customers will pay a pro-rated price for higher grades. The table below details the mineral reserves and production capacity at Mt Cattlin:

Figure 2: Galaxy Resources (August 2015)

Resource and Production Capacity									
Resource Category	Tonnes	Lithium Oxide %	Tanatlum Oxide ppm						
Measured	2,540,000	1.2	152						
Indicated	9,534,000	1.06	170						
Inferred	4,343,000	1.07	132						
Total	16,416,000	1.08	157						
Production Capacity	1.6mm tpa								

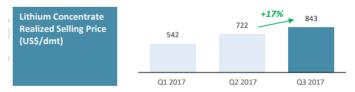
Source: Company Filings

The Company's Sal de Vida project is located the Salta and Catamarca provinces in Argentina, close to FMC Corp's (NYSE:FMC) Fenix operations. The project is situated within the 'Lithium Triangle', which produces more than 60% of global annual lithium supply. The project is expected to cost US\$376mm and the Company's revised Feasibility Study indicates a post-tax NPV10% of US\$1,043mm and a post-tax IRR of 34.6% (August 2016).

Since our last report on August 28, GXY issued two quarterly earnings releases, significantly increasing production and lowering costs. As a result, GXY has maintained a strong upwards momentum, returning 112% over the last couple of months. Initially, the stock gained 50% within two weeks following the release of its Q2/2017 earnings. During the quarter, GXY completed the ramp up and commissioning of its facility at Mt. Cattlin. Following the ramp up, GXY produced 32,998 dry metric tonnes (dmt) of lithium concentrate grading 5.77%, up 41% Q/Q, and sold 30,135 dmt increasing sales volume by 28% Q/Q. In October, GXY hit an eight-year high following the release of its Q3/2017 earnings, as the Company produced 47,075 dmt grading 5.74%, up 43% Q/Q. In addition, GXY sold 41,834 dmt during the quarter, up 39% Q/Q, while reducing production cash costs by 18% Q/Q to US\$320/dmt. Galaxy's performance was further boosted by a higher realized selling price of Lithium Concentrate, as shown below:



Figure 3: Galaxy's Realized Price



Source: Company Presentation

GXY trades at a 2018 EV/CF of 16.32x compared to its peer average of 39.25x. The stock has 6 Buy, 2 Hold and no Sell recommendations.

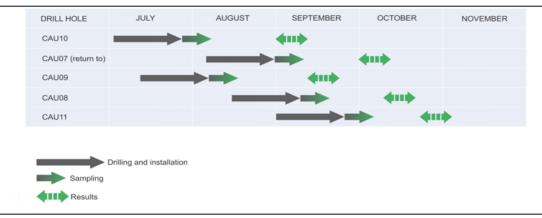
Advantage Lithium (TSXV:AAL)

Advantage Lithium is a Canada-based company with assets in Argentina and the United States. The Company's stock price increased 52% since our last report, following rising lithium prices and in anticipation of its upcoming drill results.

AAL aims to leverage the expected supply shortage for lithium over the coming years by exploring and developing lithium projects across South America and the United States. Advantage Lithium has interests in five projects in Argentina and another in the United States.

The Company's flagship asset, the Cauchari project, is a 75/25 Joint Venture between the Company and Orocobre Limited (TSX:ORL). The project comprises 28,500 hectares, and is located 10 kilometers south of Orocobre's LCE production plant in the Jujuy Province, Argentina. Advantage Lithium plans to leverage the Cauchari project's close proximity to Orocobre's existing production plant, by processing its lithium brine at Orocobre's facilities. The Cauchari JV hosts Inferred minerals reserves of 230 million cubic meters of brine at 380 mg/l Li and 3,700 mg/l K for 470,000 tonnes of lithium carbonate equivalent (LCE) and 1.62 million tonnes of potash (December 2016). Currently, AAL has budgeted \$17mm for drilling and exploration costs as the Company plans to expand its existing resource over the coming year. With an updated NI 43-101 resource due in early 2018, the Company aims to bring the project into development by 2018/2019. The table below shows a timeline of the expected release dates of its drill results. AAL's stock price rose 30% the week before its drill result announcement on September 19, but fell back 19% on the day of the release. Since then, the stock has risen back above its September highs as further drill results are due.

Figure 4: Time line for AAL's Drill Results



Source: Company Presentation





The Company's second major asset is its Clayton Valley North East project. AAL's property is located in Nevada, United States, approximately 350 kilometers from the city of Las Vegas. The mine is located along Albermarle Corp's (NYSE:ALB) Silver Peak mine, which is North America's only lithium producer.

eCobalt Solutions (TSX:ECS)

eCobalt Solutions is a cobalt exploration and development company in the process of bringing its Idaho Cobalt project into production. The Company's stock price has declined 20% since our last report date, driven by the results of the anticipated Feasibility Study results, which were released on September 27. A higher realized price for cobalt was largely offset by higher capital costs for the project.

eCobalt's 100% owned Idaho Cobalt project is a cobalt-copper-gold project located outside the town of Salmon, Idaho, United States. eCobalt has obtained all the environmental permits necessary for the project, and expects the project to be an underground mine and mill operation. According to a PEA dated March 10, 2015, the project had an estimated post-tax NPV8% of \$113.45mm (cobalt price at \$19.5/lb) at a capital cost of \$146.76mm. Furthermore, the Company also plans to build a hydro-metallurgical processing facility close by, which will serve as a refinery for the mined ore. eCobalt expects to build the facility on a railhead in Blackfoot, Ohio.

On September 27, ECS's stock price dipped 8% the day it released a Feasibility Study for its Idaho Project. The study indicated a post-tax NPV7.5% of \$135.8mm (cobalt price at \$26.65/lb). Furthermore, the study estimated an initial capital cost of \$186.7mm, up 27% from its 2015 PEA. The study also provided some reserve figures:

Figure 5: eCobalt Resource Table

Category	Co% Cut-off	Resource (Tons)	Co (%)	Co (lbs)	Au (opt)	Au (ounces)	Cu (%)	Cu (lbs)
Proven	0.25	1,987,209	0.43	17,107,067	0.013	25,276	0.69	27,383,521
Probable	0.25	1,674,685	0.52	17,409,858	0.017	28,010	0.67	22,372,024
Total Reserve	0.25	3,661,894	0.47	34,516,925	0.016	53,286	0.68	49,755,545

Source: Company Filings

To date, eCobalt has spent \$110mm on the project, for exploration, permitting and preconstruction purposes. Currently, the Company continues drilling at its property to potentially extend the 12.5-year mine life estimated in the Feasibility Study. Furthermore, ECS has begun pre-construction in anticipation of financing the project. The table below shows the timeline for the Idaho Cobalt project:





Figure 6: eCobalt Project Timeline



Source: Company Presentation

Currently ECS has an average price target of \$1.75, representing a 52.2% upside for the stock with 1 Buy and 1 Hold Recommendation.

Upcoming Catalysts:

While Chinese auto manufacturers seem to have shown initiative to secure lithium supply, to support China's electrification of transportation, auto manufacturers from the rest of the world have yet to fulfill on some hefty promises. Volvo plans to produce only electric or hybrid vehicles starting in 2019. Furthermore, at the Frankfurt Auto show this year, Volkswagen pledged to spend \$103 billion to electrify its vehicles by 2030. The spike in demand for lithium has led to a surge in pricing, and has led to expectations of a supply shortage over the next couple of years. In the wake of this market environment, further off-take agreements, or even acquisitions, could serve as major catalysts over the coming months.





Important Disclosure

Smallcappower.com is owned and operated by Ubika Corporation whose divisions include Ubika Research and Ubika Communications. Ubika Corp. is a wholly owned subsidiary of Gravitas Financial Inc. The following terms and conditions ("Terms of Use") govern the use of this website ("site") www.SmallCapPower.com. By accessing this site, you agree to comply with and be legally bound by the Terms of Use as set out herein. Ubika reserves the right to seek all remedies available at law and in equity for violations of these Terms of Use, including the right to block access from a particular internet address to our site.

Disclaimer

Ubika Corporation and its affiliates or partners will seek to provide services to companies mentioned on the smallcappower.com website. Hence, all information available on smallcappower.com should be considered as commercial advertisement and not an endorsement, offer or recommendation to buy or sell securities. Ubika Corporation and its related companies (including its directors, employees and representatives) or a connected person may have ownership/stock positions in, or options on the securities detailed in this report, and may buy, sell or offer to purchase or sell such securities from time to time.

Ubika and/or its affiliates and/or their respective officers, directors or employees may from time to time acquire, hold or sell securities and/or commodities and/or commodity futures contracts in certain underlying companies mentioned in this site and which may also be clients of Ubika's affiliates. In such instances, Ubika and/or its affiliates and/or their respective officers, directors or employees will use all reasonable efforts to avoid engaging in activities that would lead to conflicts of interest and Ubika and/or its affiliates will use all reasonable efforts to comply with conflicts of interest disclosures and regulations to minimize the conflict.

Specifically all companies mentioned or listed as "Analyst Covered Companies" at smallcappower.com and which are shown under the heading "Analyst Covered Companies" on the page: http://www.smallcappower.com/companies have entered into a commercial relationship with Ubika Corporation or our affiliates for capital market services and have paid fees and/or shares or stock options or warrants for being featured and mentioned in smallcappower.com. Hence these "Analyst Covered Companies" at smallcappower.com are shown at the website as an advertisement only and any mention of these companies does not and will not constitute an offer to buy or sell securities in the featured companies. Ubika Corporation, its affiliates or partners will seek to provide services to companies mentioned in smallcappower. com website. Hence, all information available on smallcappower.com should be considered as commercial advertisement and not an endorsement, offer or recommendation to buy or sell securities.

Ubika Corporation and its divisions Ubika Communication and Ubika Research (collectively, "Ubika") are not registered with any financial or securities regulatory authority in Ontario or Canada, and do not provide nor claims to provide investment advice or recommendations to any visitor of this site or readers of any content on this site.

The information on this site is for informational purposes only. This site, including the data, information, research reports, press releases, findings, comments, views and opinions of Ubika's analysts, columnists, speakers or commentators, and other contents contained in it, is not intended to be: investment, tax, banking, accounting, legal, financial or other professional or expert advice of Ubika or its affiliates, or a recommendation, solicitation or offer by Ubika or its affiliates to buy or sell any securities, futures, options or other financial instruments, and such information should not be relied upon for such advice. Every user of this site is advised to seek professional advice before acting or omitting to act on any information contained in the site.

Research reports and newsletters have been prepared without reference to any particular user's investment requirements or financial situation. Where reference is made to estimate of value or relative value of a specific company, there is no guarantee that these estimates are reliable or will materialize. Readers of these reports and newsletters are advised to conduct their own due diligence before making any investment decisions. Ubika does not make independent investigation or inquiry as to the accuracy and completeness of any information provided by the Analyst Covered companies. Although the content has been obtained from sources believed to be reliable, this website could include technical or other inaccuracies or typographical errors and it is provided to you on an "as is" basis without warranties or representations of any kind. Ubika and its affiliates make no representation and disclaim all express and implied warranties and conditions of any kind, including without limitation, representations, warranties or conditions regarding accuracy, timeliness, completeness, non-infringement, satisfactory quality, merchantable quality or fitness for any particular purpose or those arising by law, statute, usage of trade, or course of dealing. Ubika and its affiliates assume no responsibility to you or any third party for the consequences of any errors or omissions.

Information in this site is subject to change without notice. Ubika assumes no liability for any inaccurate, delayed or incomplete information, nor for any actions taken in reliance thereon.

Ubika, its affiliates and their respective directors, officers, employees, or agents expressly disclaim any liability for losses or damages, whether direct, indirect, special, or consequential, or other consequences, howsoever caused, arising out of any use or reproduction of this site or any decision made or action taken in reliance upon the content of this site, whether authorized or not. By accessing this site, each user of this site releases Ubika, its affiliates and their respective officers, directors, agents and employees from all claims and proceedings for such losses, damages or consequences.

Ubika and its affiliates do not endorse or recommend any securities issued by any companies identified on, or linked through, this site. Please seek professional advice to evaluate specific securities or other content on this site. Links, if any, to third party sites are for informational purposes only and not for trading purposes. Ubika and its affiliates have not prepared, reviewed or updated any content on third party sites and assume no responsibility for the information posted on them.

Ubika and/or its affiliates and/or their respective officers, directors or employees may from time to time acquire, hold or sell securities and/or commodities and/or commodity futures contracts mentioned in this site.

This site may include forward-looking statements about objectives, strategies and expected financial results of companies featured in this site or where research reports are available on companies displayed and/or featured on this site. Such forward-looking statements are inherently subject to uncertainties beyond the control of such companies. The users of this site are cautioned that the company's actual performance could differ materially from such forward-looking statements.

World Wide Web sites accessed by hypertext links ("hyperlinks") appearing in this site have been independently developed by parties other than Ubika and Ubika has no control over information in any hyperlinked site. Ubika is providing hyperlinks to users of this site only as a convenience. Ubika makes no representation and is not responsible for the quality, content or reliability of any information in any hyperlinked site. The inclusion of any hyperlink in this site should not be construed as an endorsement by Ubika of the information in such hyperlinked site and does not imply that Ubika has investigated, verified or monitored the information in any such hyperlinked site. Should you wish to inquire about creating a link from your World Wide Web site to this site, contact SCP marketing via e-mail at: info@ smallcappower.com. for written authorization.

See our full disclaimer here.

