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FAR EAST C A P I T A L The Mining Investment Experts On Friday's Close

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Weekly

Commentary

Continuing the deep dive into anodes and spheronisation

A new term has been coined that describes the Ukraine-Russia scenario; WOWO - "War On War Off". Just as our newspapers were publishing doom and gloom on Wednesday morning, radio news was reporting 35,000 Russian troops were returning to base following completion of military exercises. But wait, that seems to have been a ruse. It looks like they were just being shuffled around.

The most likely scenario seems to be that Putin has been having fun throwing the cat amongst the pigeons. He knows his demands would never be accepted as they were even worse than ambit claims. He has been having fun watching how the West has been working itself into a lather in recent weeks while he has been behaving like a playground bully.

I have no military experience, but I am smart enough to know that telecasting moves so far in advance is not the way to win by surprise. That is just common sense. If Putin was really committed to the objective of invading Ukraine further, he wouldn't have given NATO the opportunity to better arm the Ukrainian forces. But, who really knows?

On the economic front, Russia needs to keep selling gas to the West. If Biden kills the pipelines then Russia's greatest source of export earnings dries up. It is too risky. There will continue to be volatility in our markets based on daily expectations regarding WOWO, but that is good for traders, so there is no interest from that end of the market for an early resolution.

With the nervousness in the markets there is one thing for sure - gold is back in favour - and oil is at a seven year high. There have many times in history where oil and gold have worked in tandem. That duo is back in partnership again.

Digging deeper on graphite anodes

Last week's piece on anode companies should be seen as an introduction as to where some of the players are sitting, and an attempt to point to where there is or isn't transparency, but the whole battery anode scene requires a much deeper understanding.

Why do you need to coat graphite anodes anyway?

Anodes that are coated give a larger surface area and depending upon the coating used, they may enable a longer battery life. Every time you lithiate the anode it expands and contracts. Over an extended period of time this can cause the formation of dendrites which reduce the capacity and in extreme cases, can introduce the risk of overheating that can lead to battery fires. Coating can address these concerns. As we saw last week, HPA is proving itself to be a good coating material, and graphene is starting to show its credentials in this regard.

Graphite needs to purified to be suitable for anodes

Graphite mining companies employ process flow sheets that take the purity of their concentrates to 96% or better,

but purity levels of 99.95% are needed for their product to be acceptable for use in anodes.

Hydrofluoric acid is the only commercial process available today and is done almost exclusively in China. However, it is time-consuming, causes severe pollution, and is incredibly difficult to permit in developed economies.

One alternative method is pyrometallurgical purification which involves chlorination roasting. While it is chemically efficient, it is also expensive and the expelled gases are difficult to deal with.

Another alternative is the high-temperature method, whereby graphite is heated to more than 4892°C. The impurities with a lower boiling point become vaporised and they are removed. Thus, the purity of graphite becomes more than 99.95%. However, the drawback of this method is that a large-scale infrastructure investment is required, along with high electricity consumption.

Currently, of the natural graphite range, only lump and flake graphite can be used as the raw material for anodes in LIBs due to the two reasons of (a) their high degree of graphitization and (b) crystal characteristics with large flake size. However, the flake graphite needs to go through a spheronisation process to improve its energy storage capacity. The products of upgraded flake graphite are roughly spherical type particles with more than 99.95% carbon purity, but the yield to spherical is low at 30-50%.

Innovation is chasing improvements in anodes

Improvements in the performance of anodes are being researched by companies adding graphene, carbon nanotube, carbon nanofibre, and fullerene materials. This is all work in progress, as is the adding of silicon to increase the energy storage capacity.

It seems that there are opportunities for junior Australian companies to improve the methodology of preparing the graphite in the first instance, to provide more environmentally friendly methods of purifying the graphite to 99.9% levels. Implementation of better methods of purifing graphite will have fewer impediments to adoption than changes to the composition of the anodes themselves, and they can make the resultant product more acceptable to stringent EU environmental guidelines. EcoGraf, Mineral Commodities, Renascor, Talga and Volt Resources all make claims to the development of better techniques. Remember that ESG considerations are likely to dominate pure economic cost consideration in this new green world.

Spheronised graphite is the standard for LIBs

Spheronised graphite for lithium ion battery (LIB) anodes can be made from synthetic graphite or flake graphite. Synthetic graphite has fewer impurities. It is harder than flake graphite so it lasts longer, but it can't hold quite as much change. So, a compromise often involves a blend of the two types of graphite to optimise the outcome.

Demand in Europe will exceed EU supply

Speaking with industry participants and focusing on Europe in particular, it is clear that there will be huge demand for spheronised graphite anode capacity over the next 10 years. Given the regulatory obstacles involved with stringent ESG parameters, it is actually difficult to see that European industry will be able to meet the challenge. These are macro-scale issues that go well beyond the aspirations of individual companies such as those listed on the ASX.

At the moment the world is heavily dependent upon spheronised graphite out of China, a country that has traditionally used the highly toxic hydrofluoric acid purification methodology that would most likely be environmentally unacceptable in Europe. That observation serves as an impetus for new, cleaner technology, but a rapid introduction of such innovation is unlikely due to the extended qualifying period required by end users.

Regulations are puting up obstacles.

The EU has proscribed a torturous ESG qualification process that will slow down any European-based developments, extending from the permitting of graphite mines through to the purification process and the manufacturing of the anodes themselves. The whole value chain needs to be audited according to stringent standards before being given the sign-off. Getting a mining permit is just the start of it.

There is an overriding geopolitical aspect to the business as well. The potential for China to weaponise supply chains is more real than ever today, providing very strong incentive for Europe (and the rest of the world) to wean itself off its reliance on Chinese spheronised graphite. Any Europeanbased production is certain to be more expensive than product supplied from China, but we can expect that there will be legislation that will effectively build tariffs to support homegrown industry, or maybe just environmental standards that have the same effect.

Interestingly, Mineral Commodities is a small Australian mining company that already owns 90% of an operating graphite mine in Norway. This could be a very strategic asset because it is one of the very few known, permitted and operating graphite mines in Europe that could qualify for the supply of graphite for spheronisation. (See separate pieces on **Mineral Commodities** and **Volt Resources**, below). Every other potential producer, including Talga, will need to co-ordinate mine permitting and manufacturing permitting in what is likely to be a lengthy and difficult exercise. Add this to the elongated qualification process during which an anode input company needs to progressively provide larger samples for the manufacturing of test batteries and you start to talk a time frame of quite a few years.

One estimate of demand for spheronised graphite from Euopean battery manufacturers is 440,000 tpa by 2030. Compare this with the plans of EcoGraf and Talga to start off with capacity of 20,000 tpa each, and you can put the expected demand into perspective. It is highly unlikely that Europe will be able to ramp up its production fast enough to meet this date, so whether it likes it or not, China will still be needed as a major supplier.

Note that the expected yield in the spheronisation process is about 50%, meaning the graphite concentrates demand will be in the order of 900,000 tpa. That will require many new mines. In reality it will be impossible for Europe to get by without importing concentrates from places like Africa. Auditing that supply chain will add another layer of regulatory complication. Maybe it will require a European company to front this part of the supply chain.

Reliability is more important that innovation

As good as the promoters make the new, innovative anode sound, achieving a commercial result for the new technology might involve too much technical risk for battery manufactures in the first instance. All of the IP involved in battery manufacturing is controlled by Chinese, Korean and Japanese companies. They will tell prospective suppliers of anode materials what specification they want, and if the suppliers can deliver, they will have an entrè into the battery market. The first step will be to prove that they will be reliable suppliers. Introduction of the next generation, innovative technology will be much easier once these companies have a seat at the table, but it is very difficult to force change on customers. Coating innovation will be seen as an add-on technology rather than a ground breaking development.

Mineral Commodities is also into anodes

Another ASX-listed company working on anodes is Minerals Commodities (MRC), with a market capitalisation of \$72m and a modest cash balance of US\$4.3m, as at 31 December 2021. An ultra-high net worth investor from the UK is the largest shareholder with about 30% of the issued capital.

The Skaland Underground Graphite Mine (90% MRC)

Like Talga, MRC is operating in Scandinavia, but in Norway rather than Sweden. It has a small, high grade JORC resource based on the Trælen graphite deposit, being 1.84 Mt at 23.6% TGC with M/l/I resources comprising 434,000 t and a Proved and Probable Ore Reserve of 640,000 t at 24.8% TGC. While this is significantly smaller than Talga's, there is one very important distinguishing feature. MRC has a mining licence and an operating mine at Skaland, mining at a rate of 40,0000 tpa for 10,000 tpa of graphite product. Talga hasn't been able to secure a mining licence yet.

Being an underground mine, for which resources and reserves required underground development in order to be reportable, the mine life will be a function of that development. What the ultimate resource will be is open to speculation, but an appreciation of the geology leaves us in no doubt that there can be a long life mine at Skaland.

MRC will need to expand the mining rate if it is going to rise to the challenge of increased demand. A continual capital expenditure program has seen the excavation of a decline last year for better access to the orebody, but more is required. The permits allow for expanded operations of up to 16,000 tpa of concentrates, but this is still small. Improvements to the flow sheet could enable concentrate grades to lift from the current levels of 91-92%, perhaps up to 97-98%.

MRC's Skaland Anode Material Project

The Skaland Anode Material initiative involves working with the CSIRO as it develops a "new environmentally sustainable" process (of course) that uses standard industrial agents and avoids the use of toxic hydrofluoric acid.

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MRC has reported First Charge Efficiency levels of 90.6%, which is commercially acceptable. The Steady-State Capacity has been measured at 369 mA/g, which is close to the theoretical maximum of 372 mA/g for graphite. The Company is undertaking planning for larger scale piloting to support product qualification, process scale-up and the development of value-added anode materials production in Australia and Norway.

South African mineral sands mine

MRC also owns 50% of Mineral Sands Resources (Pty) Ltd, an operating minerals sands miner in South Africa, with a resource of 212 Mt at 9% Total Heavy Mineral (THM). The Tormin mine produced 2.36 Mt of ore in 2021, recovering garnet, ilmenite, iron and rutile. December Quarter revenue almost doubled to US\$13.6m, from US\$6.6m in the previous corresponding quarter. Nevetheless, the mine continues to struggle while it is sorting out permitting issues. Larger scale production is needed to ensure profitability.

Volt Resources also has a foothold in Europe

Volt (VRC) is another one of the companies with Tanzanian graphite assets that has had to think outside the square in order to maintain momentum beyond the licensing obstacles. Back in May 2021, Volt successfully completed its due diligence on the ZG Group, a Ukrainian-based graphite company, clearing the way to paying US\$7.5m for a 70% interest in the Zavalievsky graphite business.

ZG Group is located roughly halfway between Kiev and the port of Odessa, to the south. The mine has produced a total of 22.9 Mt at 6.8% carbon over a mine life of about 90 years, recently supplying a concentrate grade of 99.5% TGC. Mineralisation comes from seven steeply dipping veins over a 2.1 km strike length with widths of 630m, to a depth of 215m. December quarter production was 43,582 t at 6.07% C for concentrate production of 1,369 t, on only 27 days of operation. Productivity at the plant suffers from freezing over the winter months.

ZG has a plan to produce spheronised purified graphite to supply the European battery market. In August 2021, it announced an innovative flow sheet from Volt's Bunyu graphite project in Tanzania, following test work undertaken by American Energy Technologies Co., which is based in Illinois, USA. Rather than use the hydrofluoric acid method, Volt plans to use a high temperature purification process. This is not so much a new technology, but a variation of a known, more expensive but less environmentally damaging method of purification. Test work has showed positive First Charge Efficiency levels up to 92% capacity and charging at 354.7 mAh/g. Thus it is in the ball park but has not yet extended the life out to 800 cycles. On 31 January 2022, the Quarterly report stated that it had passed 170 cycles.

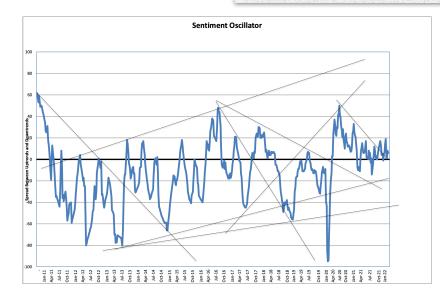
Volt has also acquired a lithium project at Jadar North in Serbia, but I hear Australians are not very popular in Serbia at present, especially amongst tennis fans. RIO is not making much headway with its giant lithium project due to social approval problems.

The future of Volt's Ukrainian operation is uncertain at present due to Putin's posturing. We just don't know what the future holds. There is also uncertainty as to how comfortably it fits in with the EU's strategy.

Lithoquest placement closing next week

Please be advised that the Lithoquest placement will close next week. The issue price is 11.5ϕ with a 1 for 2, two year warrant exerciseable at 17ϕ . The share price closed on Friday at 16ϕ (C\$).

Disclosure: Interests associated with the author own shares in Lithoquest Resources



Sentiment Oscillator: Sentiment eased slightly. There were 36% (38%) of the charts in uptrend and 30% (30%) in downtrend on Friday's close.

Detailed Chart Comments

NB. Only the bold comments have been updated. Comments in grey type are from previous weeks and will be less relevant. Please note that this list is a cross section of the market. It IS NOT a list of recommendations.

Indices	Code	Trend Comment	
All Ordinaries	XAO	consolidating after strong rebound	
Metals and Mining	XMM	great rebound	
Energy	XEJ	rising again	
Information Technology	XIJ	rallying	
Stocks	Code	Trend Comment (updated comments in bold)	Main Interest
Alpha HPA	A4N	pullback	HPA
Adriatic Resources	ADT	continuing down	zinc, polymetalic
Alkane Resources	ALK	stronger	gold
Alicanto Minerals	AQI	downtrend	base metals, silver, gold
Altech Chemical	ATC	down	HPA, anodes
Alto Metals	AME	sideways	gold exploration
American Borates	ABR	recapturing uptrend	borate
American Rare Earths (was BPL)	ARR	off its highs	rare earths
Antilles Gold	AAU	testing downtrend	gold
Arafura Resources	ARU	rising	rare earths
Ardea Resources	ARL	new high	nickel
Aurelia Metals	AMI	new uptrend	gold + base metals
Australian Potash	APC	heavy fall	potash
Australian Rare Earths	AR3	breached uptrend	rare earths
Auteco Minerals	AUT	rallying	gold exploration
Azure Minerals	AZS	rising	nickel exploration
BHP	BHP	pullback	diversified, iron ore
Beach Energy	BPT	new uptrend confirmed	oil and gas
Bellevue Gold	BGL	 down	gold exploration
Benz Mining	BNZ	new low	gold
Blue Star Helium	BNL	 down	gas, helium
BMG Resources	BMG	new low	gold exploration
Boab Metals	BML	in a secondary downtrend	silver/lead
Breaker Resources	BRB	heavy fall from highs	gold exploration
Buru Energy	BRU	testing uptrend	oil
Calidus Resources	CAI	on support line	gold
Capricorn Metals	CMM	surge to new high	gold
Caravel Minerals	CVV	slump	copper
Celsius Resources	CLA	testing short-term uptrend	copper
Chalice Mining	CHN	down	nicklel, copper, PGMs, gold exploration
Chesser Resources	CHZ	rallied off lows	gold exploration
Cobalt Blue	COB	surge to new high	cobalt
Cyprium Metals	CYM	rallied to meet resistance line	copper
Danakali	DNK	downtrend accelerating	potash

De Grey	DEG	on support line	gold
E2 Metals	E2M	surge higher, then heavy fall	gold exploration
Ecograf	EGR	down	graphite
Element 25	E25		
Enerald Resources	EMR	breaching uptrend	manganese
	EMR	rising again	gold
Empire Energy		holding uptrend	gas
Euro Manganese	EMN	testing downtrend	manganese
Evolution Mining	EVN	breached uptrend	gold
Firefinch	FFX	breached uptrend	gold
First Graphene	FGR	testing uptrend	graphene
Fortescue Metals	FMG	testing uptrend	iron ore
FYI Resources	FYI	new uptrend being tested	HPA
Galena Mining	G1A	still down	lead
Galilee Energy	GLL	sideways	oil and gas, CBM
Genesis Minerals	GMD	surged higher after consolidation	gold
Genmin	GEN	new uptrend	iron ore
Global Energy Ventures	GEV	testing downtrend	hydrogen
Gold Road	GOR	testing downtrend	gold
Great Boulder Resources	GBR	rising	gold exploration
Hastings Technology Metals	HAS	testing uptrend	rare earths
Hazer Group	HZR	bounce back to resistance line	hydrogen
Highfield Resources	HFR	back to resistance line	potash
Hillgrove Resources	HGO	long term uptrend	copper
luka Resources	ILU	breached downtrend, back to highs	mineral sands
mage Resources	IMA	new uptrend	mineral sands
Independence Group	IGO	new high	gold
oneer (was Global Geoscience)	INR	slump	lithium
lonic Rare Earths (Oro Verde)	IXR	recovering long term uptrend	rare earths
Jervois Mining	JVR	shallower uptrend	nickel/cobalt
Jindalee Resources	JRL	strong rally	lithium
Kairos Minerals	KAI	breached ST downtrend	gold exploration, lithium
Kingston Resources	KSN	rallying	gold
Kingwest Resources	KWR	testing uptrend	gold
Legend Mining	LEG	surge higher	nickel exploration
Lepidico	LPD	testing steepest uptrend	lithium
Lindian Resources	LIN	surge higher	bauxite
ion One Metals	LLO	spike higher	gold
ithium Australia	LIT	sideways	lithium
_os Cerros	LCL	rallied to hit resistance line	gold exploration
Lotus Resources	LOT	short term down	uranium
Lucapa Diamond	LOM	new uptrend being tested	diamonds
Lynas Corp.	LYC	sharp pullback	rare earths
Magnetic Resources	MAU	sideways	gold exploration
Mako Gold	MKG	breaching support	gold exploration

Marmota	MEU	sideways	gold exploration
Marvel Gold	MVL	breached uptrend	gold exploration
Matador Mining	MZZ	rallied to hit resistance line	gold exploration
Mayur Resources	MRL	base forming	renewables, cement
Meeka Gold	МЕК	strong rise but still LT downtrend	gold
Megado Gold	MEG	new low	gold exploration
MetalTech	мтс	off the end of a ramp	gold
Meteoric Resources	MEI	sideways out of downtrend	gold exploration
MetalsX	MLX	new high	tin, nickel
Metro Mining	MMI	new uptrend confirmed	bauxite
Mincor Resources	MCR	new high	gold/nickel
Mithril Resources	мтн	down	gold/silver
Musgrave Minerals	MGV	testing downtrend	gold exploration
Neometals	NMT	new high then heavy slump	lithium
Northern Minerals	NTU	rising	REE
Northern Star Res.	NST	slump back into downtrend	gold
Nova Minerals	NVA	heavy slump	gold exploration
Oceana Gold	OGC	down	gold
Oklo Resources	ОКИ	down	gold expl.
Drecorp	ORR	down	gold development
Oz Minerals	OZL	standard retracmente	copper
Pacific American	PAK	back to lows	coking coal
Pantoro	PNR	surge higher	gold
Panoramic Res	PAN	surge higher	nickel
Peak Minerals	PUA	new low	copper exploration
Peak Resources	PEK	broken down through support line, but rebound	rare earths
Peel Mining	PEX	down	copper
Peninsula Energy	PEN	on support line	uranium
Poseidon Nickel	POS	sideways	nickel
Perseus Mining	PRU	slump	gold
PVW Resources	PVW	steep rise	rare earths
Queensland Pacific Metals	QPM	sideways through downtrend line	nickel/cobalt/HPA
Red River Resources	RVR	still down	zinc
Regis Resources	RRL	new low on large financing	gold
Renergen	RLT	rallying	gas, helium
RIO	RIO	new uptrend	diversified, iron ore
Rumble Resources	RTR	breached downtrend	gold exploration
S2 Resources	S2R	consolidating after steep rise	gold exploration
St Barbara	SBM	downtrend	gold
Sandfire Resources	SFR	attempting new uptrend	copper
Santos	STO	breached downtrend	oil/gas
Saturn Metals	STN	breached ST downtrend, but still in LT one	gold exploration
Silex Systems	SLX	sideways through downtrend	uranium enrichment technology
Silver Mines	SVL	sideways	silver

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South Harz Potash	SHP		back to highs	potash
Stanmore Coal	SMR		hitting resistance line	coal
Strandline Resources	STA		new high	mineral sands
Sunstone Metals	STM		off its highs	exploration
Talga Resources	TLG		still down	graphite
Technology Metals	тмт		down	vanadium
Tesoro Resources	TSO		new low	gold exploration
Theta Gold Mines	TGM		down	gold
Thor Mining	THR		downtrend breached	gold exploration
Tietto Minerals	TIE		strong rise	gold
Titan Minerals	ттм		breached downtrend	gold
Turaco Gold	TCG		sideways	gold exploration
Vanadium Resources	VR8		back to highs	vanadium
Vimy Resources	VMY		testing downtrend	uranium
West African Resources	WAF		new high	gold
Westgold Resources	WGX		new uptrend being tested	gold
West Wits Mining	wwi		risen to meet resistance line	gold
Whitehaven Coal	WHC		secondary uptrend	coal
Wiluna Mining	WMC		gently higher	gold
Yandal Resources	YRL		breached uptrend	gold exploration
Zenith Minerals	ZNC		surge to new high	gold exploration
Zinc Mines of Ireland	ZMI		sideways	zinc
Totals	36%	52	Uptrend	
	30%	43	Downtrend	
		144	Total	

Guides to Chart Interpretations

- Charts usually go pass from one trend (up or down) into the other via a period of indecision and uncertainty during which the trend can either recover or change. This period is signified by the orange colour. The orange represent both the greatest risk and greatest reward possibilities.
- Once a chart is in confirmed up or downtrends it is not uncommon for 10-20% of that trend to have already transpired.
- There are trends within trends. The focus of this chart review is the immediate trend that affects the sentiment i.e. it can be a downtrend within a long-term uptrend.
- Not every chart warrants a new comment every week. The new comments are in bold type. Grey type comments may be dated.
- Individual charts provide a single view. It is valuable to look at charts of other companies in similar commodities, and the overall sentiment is also very
 valuable. Not many stocks can swim against the tide.
- We periodically add or delete charts, some times for obscure reasons. If a chart consistent gives poor signals or is very erratic, we may delete it. Sometimes we add a chart because we want to see what all the fuss is about. We do have a preference for charting stocks that we cover in our research as well.
- Errors and omissions may occur from time to time, especially in fast moving markets.

Amber Lights in Tables: Just a reminder if when the amber light is used in the table – it is when the charts are ambiguous or when there is a change of trend taking place. If a chart is breaching a downtrend it can either be a positive sign or a trap. Only once it has done more work can it be confirmed as a new uptrend. Maybe it is a new uptrend (or conversely a new downtrend); the risk takers can decide to jump on board early (or sell). They will maximise their profits (or minimise their losses if indeed it is the start of the new uptrend (downtrend). More risk-averse investors should wait a little longer, being prepared to give up some of the gains in return for greater certainty.

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Weightings of Sectors Represented in the Company Charts					
Sector	No. of Companies	Weighting			
Gold	31	21.5%			
Gold Exploration	26	18.1%			
Nickel	11	7.6%			
Copper	10	6.9%			
Rare Earths	9	6.3%			
Oil/Gas	7	4.9%			
Iron Ore/Manganese	6	4.2%			
Lithium	5	3.5%			
Potash/Phosphate	5	3.5%			
Graphite/graphene	4	2.8%			
Uranium	4	2.8%			
Zinc/Lead	4	2.8%			
Mineral Sands	3	2.1%			
Silver	3	2.1%			
Coal	3	2.1%			
Bauxite	2	1.4%			
Cobalt	1	0.7%			
Tin	1	0.7%			
Diamonds	1	0.7%			
Other	8				
Total	144				

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