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#### On Friday's Close

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Weekly

Commentary

# Perovskite cells at the cutting edge of solar power technology

It was a difficult, volatile week we just had as the debate concerning inflationary expectations pivoted around energy prices. All the traditional sources of energy have been experiencing price rises lately, whether it be oil, gas or coal. Flexibility of supply lines for these commodities is being compromised by the obsessive push towards renewable energy, so the movements should not come as a surprise.

The irony is that the traditional energy producers that have been under assault from self-designated ethical investment groups will be experiencing better profit margins due to the greater hurdles that new projects must overcome, with the consequential pinching of supply.

International politics is playing a role here as well with one example being Russia withholding gas supplies to Europe. Saudi gas supply has had its interruptions. The UK is experiencing panic buying of petrol at the bowser as Brexit has robbed the country of many truck drivers from Europe, and this has been exacerbated by covid lockdowns restricting cross boarder travel of other drivers.

#### The next best thing in solar power - perovskite

Crystalline silicon cells have become the benchmark for any solar power system. They have been adapted universally around the globe as economies of scale associated with Chinese manufacturing capability have lowered their cost over the last 20 years, but the curve is starting to flatten. Silicon is a mature technology that offers only incremental improvements from this point, so where do we turn to now to get disruption in the solar power business? Try perovskite solar cells (PSC).

#### Strong improvements in efficiency

PSCs are still at a relatively early stage of technical development and while they don't yet offer a perfect solution for all photovoltaic applications the rate of improvements in design and efficiency since 2012, has outstripped the rate of improvement of any other solar technology. The first generation of PSC products are on the cusp of becoming commercially available with the growth of the Technology Readiness Level we are currently witnessing, and we should expect that there will continue to be advances in the material used in their manufacture that will open the door to an expanding list of applications.

#### Advantages of perovskite solar cells

Thin film perovskite solar cells offer greater flexibility than silicon cells across a wider range of applications. They generate high power with very low weight (known as 'high specific power') for applications such as textiles and clothing, remote control devices, IoT, digital farming, loworbit satellites and drones. The list of potential uses is lengthy. Perovskite cells can be as thin as a \$20 note, and can be printed on a flexible plastic substrate in a similar way. As such the supportive glass structure that silicon panels require is not essential. The silicon solar cell typically accounts for only 30-35% of the price of a photovoltaic system, with framework and structure accounting for a larger proportion of the cost. At some point in the not too distant future perovskite cells will be suitable for all outdoor uses such as in the roof and panels of cars, on exterior walls of buildings and roofs, and on large span sheds, to name a few examples. Weight reduction is a very important consideration for all of these applications.

#### The thin film, low light competing technologies

Low light solar technologies are still being researched. Crystalline silicon (used on roof top solar panels) performs poorly in low light and shade. Amorphous silicon can perform better in low light but it cannot compete with PSC. Today there are about 10 types of low light cells being advanced with efficiencies that range from 5% to 21%. Perovskite-based modules are outperforming all affordable others.

#### The leading Australian company - Greatcell

There is a private Australian company at the cutting edge of PSCs, named Greatcell Energy Pty Ltd. Greatcell is at the point of manufacturing bench scale volumes for the delivery of samples to potential electronic industry purchasers. Assuming that these are well received, the Company will progress to the installation of larger scale roll-to-roll (R2R) manufacturing equipment commencing in the middle of 2022.

#### Focus is on indoor solar cells at present

At this juncture Greatcell is focusing on PSCs for use with indoor electronic equipment, for which there is no real substitute for PSC when considering cost, flexibility and efficiency. Subsequent improvements in design and manufacturing should enable the development of weatherproofing to open the door to long term outside applications as well.

#### Research note is available on request

We have completed a four page research note on Greatcell in support of a \$2m seed capital raising that is being undertaken. We have only sent this to our s708 investors list but we can make it available on request, together with a company presentation.

## Los Cerros continues to confirm and expand expectations with the layer three hole

The excitement that comes with a new discovery can be very exciting, especially when it comes out of left field, but it is always a challenge to hold the attention of speculators when the the novelty wears off. Sometimes a share price will keep rising as the magnitude of a discovery is quickly appreciated, such as with Chalice or De Grey, but even these stocks top out at some point and the shares go into retreat.

Los Cerros shares have performed very well over the past 12 months but the share price is drifting lower now, following the introduction of strategic institutional shareholders in the recent placement at 16¢. At 13.5¢ the market capitalisation of LCL is \$85m, with a cash balance of \$20m. There is no premium for what is obviously a multimillion ounce discovery.

We still don't know the ultimate size of the Tesorito. Every time the company drills to define the boundaries, it invariably extends the dimensions both of the extremeties and the high grade zone. The three holes announced last week are cases in point.

Hole 28 was drilled across the NW face of the system for 608m, testing the vertical continuity in the order of 200-300m under earlier holes that had previously shown encouraging shallow intercepts e.g Hole 22. That was a big confidence booster with an intercept of 116m at 1.17 gpt, including 12m at 2.11 gpt and 32m at 1.3 gpt.

Holes 29 and 30 were drilled to test the SE extremities. Both came up with the goods, showing that the mineralisation has not been closed in this direction, although we do know the Marmato Fault must define the eastern edge eventually. Reported assays were 107m at 1.1 gpt from surface and 144m at 1.2 gpt from 6m down hole. Importantly, the near surface high grade zone was hit again with assays of 14m at 3.45 gpt and 27.7m at 1.94 gpt.

Still, the most important observation is that the ultimate size of Tesorito South is not yet known. Recent drilling points to extension to the north the southeast and to the southwest.

At some point LCL will need to collect all the data and switch to more a more regular drill pattern to enable the calculation of an inferred resource, enabling analysts to offer indicative valuations, but at this juncture it is still an open book and a steep learning curve.

In terms of future news flow, we have the assays still in the lab. The four rigs will keep drilling and there may even be something to say on other projects such as Ceibal. While the gold price isn't helping sentiment right now, that is merely a short term consideration for impatient traders.

Disclosure: Interests associated with the author own shares in Los Cerros.

#### When promotion starts to look silly

Promotion is an essential ingredient for any successful company. CEOs are charged with the task of building successful companies but at the same time they need to fulfil the task of telling the market how well things are going. Shareholders expect them to generate a certain level of hype even though this can get to be a distraction from the real longer term operational objectives.

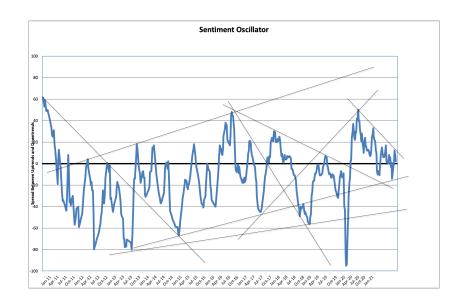
The perfect scenario is one where you have both; good results and good promotion. The results come down to delivery, which we all want. Good promotion comes down to effective communication of those results in a fashion where they can be easily or quickly understood. It is amazing how many companies have difficulty in getting the message across.

It is becoming more commonplace for companies to outsource the promotion to parties that have expertise in marketing and communication. There is nothing wrong with that if it helps get the message across, but what about when the message is the message, as opposed to articulating the results? What if the tail starts wagging the dog and the promotion starts to become the real story?

We have recently seen a number of meaningless statements in company presentation, such as;

- "A game changer with visibility to a maiden drilling program". Please tell me what that means.
- "Unprecedented leverage to Nickel/PGE drilling". Does this mean it is better leverage than anyone else?
- "A working sulphide mineral system present". What does the word "working" add to the description?
- "Diligent execution of exploration plan". Isn't this what every company needs to do.
- "New data closing in on the resource discovery". It either is or isn't a discovery.
- "Making rapid progress towards a discovery". How do you measure this, objectively?

It can get silly when companies and their agents try to be too creative with the promotional phrases.



Sentiment Oscillator: Sentiment turned down at the resistance line last week, suggesting that there is more pain on the way. There were 35% (39%) of the charts in uptrend and 33% (331%) in downtrend on Friday's close. The bouncing is extending.

# **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  | down                                     |                           |
| Metals and Mining              | XMM  | collapse                                 |                           |
| Energy                         | XEJ  | rising                                   |                           |
| Stocks                         | Code | Trend Comment (updated comments in bold) | Main Interest             |
| Alpha HPA                      | A4N  | breached ST downtrend                    | HPA                       |
| Adriatic Resources             | ADT  | on trend line                            | zinc, polymetalic         |
| Alkane Resources               | ALK  | down                                     | gold                      |
| Alicanto Minerals              | AQI  | pullback on good drill result            | base metals, silver, gold |
| Altech Chemical                | ATC  | breached downtrend                       | HPA, anodes               |
| Alto Metals                    | AME  | sideways                                 | gold exploration          |
| American Rare Earths (was BPL) | ARR  | rising                                   | rare earths               |
| Antilles Gold                  | AAU  | testing downtrend                        | gold                      |
| Arafura Resources              | ARU  | rising                                   | rare earths               |
| Ardea Resources                | ARL  | sideways through support line            | nickel                    |
| Aurelia Metals                 | AMI  | still in downtrend                       | gold + base metals        |
| Australian Potash              | APC  | down                                     | potash                    |
| Australian Rare Earths         | AR3  | new high                                 | rare earths               |
| Auteco Minerals                | AUT  | resumed uptrend                          | gold exploration          |
| Azure Minerals                 | AZS  | softening                                | nickel exploration        |

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| · · · · · · · · · · · · · · · · · · · |     |                                |
|---------------------------------------|-----|--------------------------------|
| BHP                                   | внр | collapse on oil deal, iron ore |
| Base Resources                        | BSE | sideways                       |
| Beach Energy                          | BPT | rallying                       |
| Bellevue Gold                         | BGL | testing support                |
| Blue Star Helium                      | BNL | strong rise                    |
| BMG Resources                         | BMG | surged higher                  |
| Boab Metals                           | BML | in a secondary downtrend       |
| Breaker Resources                     | BRB | *                              |
| Buru Energy                           | BRU | gently higher                  |
| Calidus Resources                     | CAI | rising again                   |
| Capricorn Metals                      | СММ | surge to new high              |
| Caravel Minerals                      | сүү | testing downtrend              |
| Celsius Resources                     | CLA | breached downtrend             |
| Chalice Mining                        | CHN | testing uptrend again          |
| Chase Mining                          | CML | breached downtrend             |
| Chesser Resources                     | CHZ | sideways                       |
| Cobalt Blue                           | СОВ | new uptrend being tested       |
| Cyprium Metals                        | СҮМ | continuing down                |
| Danakali                              | DNK | long term downtrend            |
| De Grey                               | DEG | shallow downtrend              |
| E2 Metals                             | E2M | shallower downtrend            |
| Ecograf                               | EGR | new downtrend                  |
| Element 25                            | E25 | testing downtrend              |
| Emerald Resources                     | EMR | rising again                   |
| Euro Manganese                        | EMN | down                           |
| Evolution Mining                      | EVN | down                           |
| Firefinch                             | FFX | strongly higher                |
| First Graphene                        | FGR | back to support line           |
| Fortescue Metals                      | FMG | down                           |
| Galena Mining                         | G1A | breached downtrend             |
| Galilee Energy                        | GLL | down                           |
| Genesis Minerals                      | GMD | testing downtrend              |
| Genmin                                | GEN | back in downtrend              |
| Gold Road                             | GOR | weaker                         |
| Hastings Technology Metals            | HAS | rising again                   |
| Hazer Group                           | HZR | new uptrend                    |
| Highfield Resources                   | HFR | down                           |
| Hillgrove Resources                   | HGO | breached downtrend             |
| Iluka Resources                       | ILU | new high                       |
| Image Resources                       | IMA | sideways                       |
| Independence Group                    | IGO | new high                       |
| ioneer (was Global Geoscience)        | INR | rising                         |

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| BHP                            | BHP | collapse on oil deal, iron ore prices | diversified, iron ore                   |
|--------------------------------|-----|---------------------------------------|---|
| Base Resources                 | BSE | sideways                              | mineral sands                           |
| Beach Energy                   | BPT | rallying                              | oil and gas                             |
| Bellevue Gold                  | BGL | testing support                       | gold exploration                        |
| Blue Star Helium               | BNL | strong rise                           | gas, helium                             |
| BMG Resources                  | BMG | surged higher                         | gold exploration                        |
| Boab Metals                    | BML | in a secondary downtrend              | silver/lead                             |
| Breaker Resources              | BRB | *                                     | gold exploration                        |
| Buru Energy                    | BRU | gently higher                         | oil                                     |
| Calidus Resources              | CAI | rising again                          | gold                                    |
| Capricorn Metals               | СММ | surge to new high                     | gold                                    |
| Caravel Minerals               | CVV | testing downtrend                     | copper                                  |
| Celsius Resources              | CLA | breached downtrend                    | copper                                  |
| Chalice Mining                 | CHN | testing uptrend again                 | nicklel, copper, PGMs, gold exploration |
| Chase Mining                   | CML | breached downtrend                    | nickel/copper/PGE                       |
| Chesser Resources              | СНΖ | sideways                              | gold exploration                        |
| Cobalt Blue                    | СОВ | new uptrend being tested              | cobalt                                  |
| Cyprium Metals                 | СҮМ | continuing down                       | copper                                  |
| Danakali                       | DNK | long term downtrend                   | potash                                  |
| De Grey                        | DEG | shallow downtrend                     | gold                                    |
| E2 Metals                      | E2M | shallower downtrend                   | gold exploration                        |
| Ecograf                        | EGR | new downtrend                         | graphite                                |
| Element 25                     | E25 | testing downtrend                     | manganese                               |
| Emerald Resources              | EMR | rising again                          | gold                                    |
| Euro Manganese                 | EMN | down                                  | manganese                               |
| Evolution Mining               | EVN | down                                  | gold                                    |
| Firefinch                      | FFX | strongly higher                       | gold                                    |
| First Graphene                 | FGR | back to support line                  | graphene                                |
| Fortescue Metals               | FMG | down                                  | iron ore                                |
| Galena Mining                  | G1A | breached downtrend                    | lead                                    |
| Galilee Energy                 | GLL | down                                  | oil and gas, CBM                        |
| Genesis Minerals               | GMD | testing downtrend                     | gold                                    |
| Genmin                         | GEN | back in downtrend                     | iron ore                                |
| Gold Road                      | GOR | weaker                                | gold                                    |
| Hastings Technology Metals     | HAS | rising again                          | rare earths                             |
| Hazer Group                    | HZR | new uptrend                           | hydrogen                                |
| Highfield Resources            | HFR | down                                  | potash                                  |
| Hillgrove Resources            | HGO | breached downtrend                    | copper                                  |
| Iluka Resources                | ILU | new high                              | mineral sands                           |
| Image Resources                | IMA | sideways                              | mineral sands                           |
| Independence Group             | IGO | new high                              | gold                                    |
| ioneer (was Global Geoscience) | INR | rising                                | lithium                                 |
| Ionic Rare Earths (Oro Verde)  | IXR | recovering long term uptrend          | rare earths                             |
| Jervois Mining                 | JVR | breaching uptrend                     | nickel/cobalt                           |

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|---------------------------------------|-----|----------------------------------|--------------------------|
| Jindalee Resources                    | JRL | testing uptrend                  | lithium                  |
| Kairos Minerals                       | КАІ | down                             | gold exploration         |
| Kingston Resources                    | KSN | down                             | gold                     |
| Kingwest Resources                    | KWR | surge out of downtrend           | gold                     |
| Latitude Consolidated                 | LCD | back to recent lows              | gold                     |
| Legend Mining                         | LEG | turned down at resistance line   | nickel exploration       |
| Lepidico                              | LPD | breached uptrend                 | lithium                  |
| Lindian Resources                     | LIN | new high                         | bauxite                  |
| Lithium Australia                     | LIT | rising again                     | lithium                  |
| Los Cerros                            | LCL | down                             | gold exploration         |
| Lotus Resources                       | LOT | rising                           | uranium                  |
| Lucapa Diamond                        | LOM | rising from lows                 | diamonds                 |
| Lynas Corp.                           | LYC | heavy fall                       | rare earths              |
| Magnetic Resources                    | MAU | back to highs                    | gold exploration         |
| Mako Gold                             | MKG | down again                       | gold exploration         |
| Manhattan Corp                        | мнс | stronger out of downtrend        | gold exploration         |
| Marmota                               | MEU | rallying                         | gold exploration         |
| Marvel Gold                           | MVL | new high                         | gold exploration         |
| Matador Mining                        | MZZ | down                             | gold exploration         |
| MetalTech                             | МТС | new high                         | gold                     |
| Meteoric Resources                    | MEI | down heavily                     | gold exploration         |
| MetalsX                               | MLX | new high                         | tin, nickel              |
| Metro Mining                          | ММІ | back to lows                     | bauxite                  |
| Mincor Resources                      | MCR | new high                         | gold/nickel              |
| Musgrave Minerals                     | MGV | down                             | gold exploration         |
| Neometals                             | NMT | new high                         | lithium                  |
| Northern Minerals                     | NTU | breached ST uptrend              | REE                      |
| Northern Star Res.                    | NST | down                             | gold                     |
| Oceana Gold                           | OGC | testing downtrend                | gold                     |
| Oklo Resources                        | ΟΚυ | testing downtrend                | gold expl.               |
| Orecorp                               | ORR | heavy correction after placement | gold development         |
| Orocobre                              | ORE | new high                         | lithium                  |
| Oz Minerals                           | OZL | testing downtrend                | copper                   |
| Pacific American                      | PAK | off its lows                     | coking coal              |
| Pantoro                               | PNR | breached support line            | gold                     |
| Panoramic Res                         | PAN | breakout on the upside           | nickel                   |
| Peak Minerals                         | PUA | new low                          | copper exploration       |
| Peak Resources                        | PEK | down                             | rare earths              |
| Peel Mining                           | PEX | down                             | copper                   |
| Peninsula Energy                      | PEN | new high                         | uranium                  |
| Poseidon Nickel                       | POS | breached uptrend                 | nickel                   |
| Perseus Mining                        | PRU | rising                           | gold                     |
| Pilbara Minerals                      | PLS | new high                         | lithium                  |
| Polarex                               | PXX | spike higher                     | polymetallic exploration |
|                                       |     |                                  |                          |

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| Far East Capital Ltd - 2 October 2021 |                 |                                | Weekly Commentary                   |
|---------------------------------------|-----------------|--------------------------------|-------------------------------------|
| Queensland Pacific Metals QPM         | Λ               | new high                       | nickel/cobalt/HPA                   |
| Red River Resources RVF               | k               | down                           | zinc                                |
| Regis Resources RRL                   |                 | new low on large financing     | gold                                |
| Renergen RLT                          |                 | rising                         | gas, helium                         |
| RIO RIO                               |                 | collapse through support line  | diversified, iron ore               |
| Rumble Resources RTF                  | ł               | breached downtrend             | gold exploration                    |
| Salt Lake Potash SO4                  |                 | voluntary suspension           | potash                              |
| St Barbara SBM                        | 1               | testing downtrend              | gold                                |
| Sandfire Resources SFR                |                 | back in downtrend              | copper                              |
| Santos STC                            | )               | rallying                       | oil/gas                             |
| Saturn Metals STN                     |                 | breached short term uptrend    | gold exploration                    |
| Sheffield Resources SFX               |                 | breached uptrend               | mineral sands                       |
| St George Mining SGC                  | Q               | risen to resistance line       | nickel                              |
| Silex Systems SLX                     |                 | heavy correction               | uranium enrichment technology       |
| Silver Mines SVL                      |                 | down                           | silver                              |
| Sipa Resources SRI                    |                 | testing downtrend              | general exploration - Ni,Cu, Co, Au |
| South Harz Potash SHF                 |                 | breaching downtrend            | potash                              |
| Stanmore Coal SMF                     | 3               | new high                       | coal                                |
| Strandline Resources STA              |                 | pullback                       | mineral sands                       |
| Sunstone Metals STM                   | 1               | down                           | exploration                         |
| Talga Resources TLG                   |                 | testing downtrend              | graphite                            |
| Technology Metals TMT                 | -               | rising                         | vanadium                            |
| Tesoro Resources TSC                  |                 | new low                        | gold exploration                    |
| Theta Gold Mines TGN                  | 1               | testing downtrend              | gold                                |
| Thor Mining THF                       | ł               | strong rise                    | gold exploration                    |
| Tietto Minerals TIE                   |                 | improving                      | gold                                |
| Titan Minerals TTN                    | 1               | sideways                       | gold                                |
| Venturex VXF                          | ł               | down                           | zinc                                |
| Vimy Resources VM                     | /               | surge through downtrend        | uranium                             |
| West African Resources WAR            | -               | struggling at resistance line  | gold                                |
| Westgold Resources WG                 | x               | turned down at resistance line | gold                                |
| West Wits Mining WW                   | I               | strong rally                   | gold                                |
| Western Areas WS/                     | 4               | surge higher                   | nickel                              |
| Whitehaven Coal WHO                   |                 | surge to new high              | coal                                |
| Wiluna Mining WM                      | c               | testing downtrend              | gold                                |
| Yandal Resources YRL                  |                 | wedge forming                  | gold exploration                    |
| Zenith Minerals ZNC                   | ;               | placement and downtrend        | gold exploration                    |
| Zinc Mines of Ireland ZMI             |                 | softening                      | zinc                                |
| Totals 359                            | 6 50            | Uptrend                        |                                     |
| 339                                   | <sup>6</sup> 46 | Downtrend                      |                                     |
|                                       | 141             | 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.

| Sector             | No. of<br>Companies | Weighting |  |
|--------------------|---------------------|-----------|--|
| Gold               | 29                  | 20.6%     |  |
| Gold Exploration   | 25                  | 17.7%     |  |
| Nickel             | 13                  | 9.2%      |  |
| Copper             | 10                  | 7.1%      |  |
| Lithium            | 7                   | 5.0%      |  |
| Rare Earths        | 8                   | 5.7%      |  |
| Oil/Gas            | 6                   | 4.3%      |  |
| Iron Ore/Manganese | 6                   | 4.3%      |  |
| Zinc/Lead          | 5                   | 3.5%      |  |
| Mineral Sands      | 5                   | 3.5%      |  |
| Potash/Phosphate   | 5                   | 3.5%      |  |
| Uranium            | 4                   | 2.8%      |  |
| Graphite/graphene  | 4                   | 2.8%      |  |
| Coal               | 3                   | 2.1%      |  |
| Bauxite            | 2                   | 1.4%      |  |
| Silver             | 2                   | 1.4%      |  |
| Cobalt             | 1                   | 0.7%      |  |
| Tin                | 1                   | 0.7%      |  |
| Diamonds           | 1                   | 0.7%      |  |
| Other              | 4                   |           |  |
| Total              | 141                 |           |  |

#### Weightings of Sectors Represented in the Company Charts

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