SUPPLYING THE NEW DEMAND FOR GRAPHITE IN LI-ION BATTERIES

满足锂离子电池对石墨的新需求
Forward-looking Statements Advisory

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Global Demand for Flake Graphite Will Outstrip Supply 2018 / 2018年全球片状石墨需求将超越供应

New Investments in Cryptocurrency and Internet of Things / 加密货币和物联网领域的新投资
WWW.PROMETHIEUS.COM AND / 和 WWW.SHDDEVICES.COM

LOMIKO’S 2018 GOALS / LOMIKO 2018年目标

Drill New Discovery 110 M of 14.56% Cg Needs to be included in 43-101 / 需要将1.1亿吨石墨品位14.56%的钻探新发现加入43-101报告中

Complete further Graphite Metallurgy, Purity and Characterization Tests / 完成进一步的石墨冶金、纯度和特性描述试验

Upgrade 43-101 Resource filed for La Loutre of 4.1 Mt of 6.5% indicated / 升级La Loutre项目410万吨6.5%的43-101指示资源量
IS LOMIKO UNDERVALUED? A CHART OF COMPARABLES (LMR IN BLACK)/ LOMIKO 是否被低估？对比图（LMR为黑色）
The Graphite Market Today
Steel Market and Li-Ion Batteries

**Supply**
- 70% of the world's graphite market
- 40% Flake Graphite
- 60% Amorphous Graphite

**Highest price, Lowest supply**
High purity crystal flake graphite supply is very limited. Only this kind of natural graphite can be used for Li-ion batteries, fuel cells, and other green tech.

**Demand**
- 5% growth in the last decade
- Driven by Asian steel and auto markets
- USD $12,000,000,000 (Estimated worldwide graphite market in 2011)

**Compare Graphite with other markets**
- Graphite: 1.1 million tonnes per year
- Ni (Nickel): 1.3 million tonnes per year
- Mo (Molybdenum): 1.15 million tonnes per year
- REE (Rare Earth Elements): 1.3 million tonnes per year
- Li (Lithium): 2.9 million tonnes per year

**High Carbon Purity**
- Large Flake Size
- Carbon Flake Purity directly affects the price of the resource

**Graphite Market Diagram** by Lomiko Metals
当今石墨市场
钢铁市场和锂离子电池

石墨市场

供应
- 40% Flake Graphite 片状石墨
- 60% Amorphous Graphite 无定型石墨

70% 中国占世界石墨市场的70%

最高价 供应
高纯度透明片状石墨供应非常有限，只有这种天然石墨能够用于锂离子电池、燃料电池和其他绿色技术行业。

需求

USD $12,000,000,000
（2011年估测全球石墨市场规模）

对比石墨与其他市场

- 镍 Ni
- 石墨 Graphite
- 锰 Mn
- 稀土元素 REE
- 铅 Pb
- 锂 Li

110万公吨/年
Graphite’s Future is in Li-Ion Batteries

Graphite is a critical component of lithium ion batteries and cannot be economically substituted.

Virtually all commercial Li-ion batteries use graphite.

Up to 15x more graphite than lithium is needed to make each battery.

The ratio depends on the cathode material.

Graphite 8:1 NCA
- Lithium Nickel/Cobalt/Aluminum

Graphite 13:1 LFP
- Lithium Iron Phosphate

Graphite 15:1 LMO
- Lithium Manganese Oxide

Demand drivers for Li-ion Batteries

A: Electric & Hybrid Vehicles

Amount of Graphite in battery:
- Tesla Roadster: 166 kg
- Nissan Leaf: 66 kg
- Chevy Volt: 26 kg

HEV
- Hybrid Electric Vehicle
  - Uses battery power to boost efficiency of engine

PHEV
- Plugin Hybrid Electric Vehicle
  - Uses battery power or internal combustion engine

BEV
- Battery Electric Vehicle
  - Uses only battery power

4,000,000 Sales

- BEV: 372%
- HEV: 44.8%
- PHEV: 19%

2004 - 2010 - 2020 (proj.)

157,000 sales in 2004
735,000 sales in 2010

Lomiko Metals
石墨的未来在于锂离子电池。

锂离子电池需求的驱动因素

混合电动汽车
插电式混合动力汽车
纯电动汽车

使用电池动力来提高发动机效率，使用电池动力或内燃机发动机，只使用电池动力

电动汽车和混合动力汽车

电池中的石墨量

特斯拉Roadster
日产Leaf
通用Volt

特斯拉Roadster
日产Leaf
通用Volt

736,000销售
157,000销售
2004 → 2010 → 2020 (estimated)

石墨是锂离子电池的关键成分，没有经济的替代品。

石墨8:1 锂-钴-铝电池
石墨13:1 磷酸铁锂电池
石墨15:1 锰酸锂电池

石墨8:1 NCA
石墨13:1 LFP
石墨15:1 LMO

锂离子电池需求比锂最多高出15倍，比率取决于阴极材料。
TESLA SALES GROWTH
特斯拉销量增长

Tesla Total Sales Projections
特斯拉总销量预期

![Graph showing Tesla total sales projections from 2012 to 2020E.](image)
Metal Winners 金属赢家

随着电动汽车电池市场扩大，从钴到锂的金属需求预计将飙升

Cobalt to lithium demand is forecast to soar as electric vehicle markets expand

Source: Bloomberg New Energy Finance
THE TESLA GIGAFACTORY
IMPACT ON LI-ION BATTERIES
特斯拉超级工厂对锂离子电池的影响

THE GIGAFACTORY WOULD PRODUCE THE EQUIVALENT OF ALL 2013 LITHIUM-ION BATTERY PRODUCTION IN THE WORLD IN JUST ONE FACTORY.
超级工厂仅通过一个工厂就将可以生产相当于2013年全球总产量的锂离子电池

LITHIUM-ION BATTERY PRODUCTION
锂离子电池产量

- Global Production
- GigaFactory Production Only

<table>
<thead>
<tr>
<th>Year</th>
<th>Global Production</th>
<th>GigaFactory Production</th>
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<tr>
<td>2010</td>
<td>5</td>
<td>10</td>
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<tr>
<td>2011</td>
<td>10</td>
<td>20</td>
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<td>2012</td>
<td>15</td>
<td>25</td>
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<td>2013</td>
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<td>2020</td>
<td>35</td>
<td>40</td>
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GWh/Year Production
TESLA’S PROJECTED IMPACT ON THE GRAPHITE MARKET BY 2020

RAW MATERIALS

UBS, a bank, notes that raw materials account for 70% of the price of a lithium battery. The main battery raw materials are:

GRAPHITE

Natural or synthetic graphite is used in the anodes of lithium-ion batteries. Natural graphite is cheaper than synthetic.

2013 GRAPHITE PRODUCTION

375,000 TONNES (flake)

GIGAFACORY DEMAND INCREASE (Battery-grade graphite)

126,000 TONNES

If Tesla plant exists, the 126,000 tonne increase is a 34% increase on total demand, and a 154% increase on battery-grade demand.
TESLA’S PROJECTED IMPACT ON THE GRAPHITE MARKET BY 2020
预计到2020年特斯拉对石墨市场的影响

瑞士银行指出，原材料占锂电池价格的
70%
主要原材料为:

GRAPHITE 石墨
天然或合成石墨用于锂离子电池阳极中。天然石墨价格低于合成石墨。

2013年石墨产量
375,000 TONNES (flake)

超级工厂需求攀升（电池级石墨）
126,000 TONNES

如果特斯拉工厂存在，增加126,000公吨意味着总需求增加34%，而电池级需求增加154%。
QUEBEC LA LOUTRE Flake Graphite
EXCELLENT INFRASTRUCTURE / 魁北克省
LA LOUTRE片状石墨优越的基础设施

- 2,867.29 Ha Property / 2,867.29 公顷项目区
- 25 hole program planned Jan 2018 / 2018年1月规划25个钻孔项目
- Road to the Property built / 已建造到项目区的公路
- 192 km Highway to Port of Montreal / 与蒙特利尔港口公路距离192公里
- 53 km to 20 year IMERYS Mine which has 5.2MT open pit at 7.42% Cg / 与有着20年历史的IMERYS矿相距53公里，该矿有着520万吨石墨品位7.42%露天矿资源
- Near Surface Mineralization / 近地表成矿
- Open Pit, Large Scale Target / 露天矿大型靶区
- 80% owned, 100% earn-in started / 持有80%，已经开始挣得100%权益
ONLY 2 OF 10 IDENTIFIED ANOMALIES AT LA LOUTRE DRILLED / LA LOUTRE十个已发现的异常带仅钻探了两个
TOP LINE RESOURCE OF 4.1 Mt of 6.5% CG IS VERY SIMILAR TO PRODUCER IMERYS / 410万吨石墨品位6.5%的顶级资源，与生产矿IMERYS十分相似

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<tr>
<th>Zone</th>
<th>Cut-off Cg (%)</th>
<th>Tonnage (metric tonne)</th>
<th>Grade Cg (%)</th>
<th>Graphite (metric tonne)</th>
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<td>All Zones</td>
<td>&gt; 3.0</td>
<td>4,137,300</td>
<td>6.50</td>
<td>268,800</td>
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<td>&gt; 2.5</td>
<td>6,927,500</td>
<td>4.95</td>
<td>342,900</td>
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<td>15,181,200</td>
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<td>3.63</td>
<td>631,600</td>
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</table>

Graphite (metric tonne) | Cut-off Cg (%) | Tonnage (metric tonne) | Grade Cg (%) | Graphite (metric tonne) |
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<tr>
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<td>&gt; 0.5</td>
<td>17,400,900</td>
<td>3.63</td>
<td>631,600</td>
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NEW HIGH GRADE 10%+ ZONE WITH SAME FOOTPRINT – BETTER ECONOMICS / 具有同样足迹的新的高品位区（10%以上）—经济效益更佳

2016 DRILL HIGHLIGHTS (YELLOW)
2016年钻探亮点（黄色）

<table>
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<tr>
<th>Hole #</th>
<th>From (m)</th>
<th>To (m)</th>
<th>Length* (m)</th>
<th>Gp %</th>
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<tbody>
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<td>LL-15-50</td>
<td>2.20</td>
<td>48.45</td>
<td>46.25</td>
<td>5.43</td>
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<tr>
<td>including</td>
<td>5.80</td>
<td>9.75</td>
<td>3.95</td>
<td>17.95</td>
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<tr>
<td>including</td>
<td>42.70</td>
<td>46.95</td>
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<td>LL-15-51</td>
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<td>37.50</td>
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<td>including</td>
<td>9.00</td>
<td>37.50</td>
<td>28.50</td>
<td>16.53</td>
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<tr>
<td>including</td>
<td>91.55</td>
<td>122.50</td>
<td>30.95</td>
<td>8.18</td>
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<tr>
<td>including</td>
<td>91.55</td>
<td>98.50</td>
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<td>18.31</td>
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<td>including</td>
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<td>including</td>
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<td>2.80</td>
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2017 DRILL HIGHLIGHTS (BLUE)
2017年钻探亮点（蓝色）

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<tr>
<td>Fully Diluted / 完全摊薄后股数:</td>
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<tr>
<td>Market Capital / 市值:</td>
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<tr>
<td>Working Capital / 运营资本:</td>
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<td>(Fully diluted)（完全摊薄后）:</td>
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<td>1 YR EX. Budget / 一年支出预算:</td>
<td>$ 600,000</td>
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SHARE STRUCTURE
股权结构
A. Paul Gill — Chief Executive Officer / 首席执行官

Mr. Gill is the President of AJS Management Inc., a company providing management consulting to private and public companies. From November 2003 to October 2006, Mr. Gill was heavily involved in the dynamic growth stage of Norsemont Mining (TSX: NOM) as a Officer, and Director, V.P. Business Development, while the company grew from a market capitalization of $1 million to $50 million with a final buyout of $512 M. Mr. Gill is also a Director of Graphene 3D Lab (TSXV: GGG), CEO of Lomiko Technologies and an Advisor to Altair Resources (TSXV: AVX) / Gill先生是AJ S Management Inc总裁，该公司为私人及上市公司提供管理咨询。2003年11月至2006年10月，Gill先生作为一名高管、董事及业务发展副总裁积极参与了Norsemont Mining (TSX: NOM)的动态增长阶段，期间该公司由市值$100万增长至$5000万，并最终以$5.12亿的价格被全部买下。Gill先生还是Graphene 3D Lab (TSXV: GGG)董事、Lomiko Technologies首席执行官以及 Altair Resources (TSXV: AVX) 的一名顾问。

Jacqueline Michael — Chief Financial Officer / 首席财务官

Ms. Michael has over 20 years of financial and administration experience. In 1988, Ms. Michael co-founded The Conac Group, a software development company for construction management, where she acted as President and CEO. In 1997, Ms. Michael was successful in taking the company public on the CDNX Exchange and helped raise over $5 million in private placement financings for the company. Ms. Michael has acted as the President and Chief Executive Officer for public companies for over 10 years. / Michael女士拥有20年以上的财务和管理经验，1988年联合创立了建筑管理软件开发公司The Conac Group，担任总裁兼首席执行官。1997年成功带领该公司在加拿大风险交易所上市，帮助该公司通过非公开发行融资超过$500万。Michael女士十多年一直担任上市公司总裁和首席执行官。
DIRECTORS / 董事

Julius Galik — Director / 董事

A business man and a financial advisor with PFSL, Mr. Galik has been involved in start-up situations within the mining exploration industry in Western Canada since 2002, and during the past 8 years has been instrumental in the development and financing of various small capitalized companies, both private and public. Between 2006-2007 Mr. Galik served as director of Dorex Minerals Inc. (TSX-V: DOX), and in September 2009 was elected Dorex President and CEO. / Galik先生是一名商人，也是PFSL金融顾问，自2002年以来一直参与加拿大西部矿产勘探行业创业领域，过去八年期间为多家小型私人及上市公司的发展和融资发挥了至关重要的作用。2006至2007年期间，Galik先生曾担任Dorex Minerals Inc. (TSX-V: DOX)董事，2009年9月被选为Dorex总裁兼首席执行官。

Brian Gusko – Director / 董事

Brian has significant international business experience at the highest level. He was the CFO of UC Resources Ltd., an emerging producer of silver and gold in Mexico. Years ago he was a research associate with the U.S. Department of Commerce at an embassy posting. His international experience includes working in Corporate Planning with a Mitsubishi Group company in Tokyo, Product Management at a Vodafone spin-off in the Netherlands, and being Managing Director of Palm South Africa’s wireless subsidiary. Mr. Gusko received a Bachelor of Arts in Biology (1990) from Carleton University, and an MBA from the University of Calgary (2003). He currently serves on the Board of Directors of Emergent Waste Solutions, and is an Advisor to the Board of Solegear Bioplastics(a bio-plastic company). Brian is a Partner at Vancouver-based, Sustainable Capital Corporation, a capital markets advisory firm. / Brian拥有丰富的最高层国际商务经验，曾担任墨西哥新兴白银和黄金生产商UC Resources Ltd首席财务官，多年前曾是美国商务部派驻大使馆的一名助理研究员。他的国际经验包括曾在东京三菱集团公司参与企业规划，在沃达丰在荷兰拆分的公司从事产品管理，以及担任Palm South Africa无线子公司总经理。Gusko先生获得了卡尔顿大学生物学专业文学士（1990年），卡尔加里大学工商管理硕士（2003）。他目前是Emergent Waste Solutions董事会成员，并且是生物塑料公司Solegear Bioplastics的董事会顾问，也是温哥华资本市场咨询公司Sustainable Capital Corporation的合伙人。