A Critical Materials Company

Uniquely Positioned for the Coming European EV Boom
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The Woxna project has never defined a mineral reserve and the previous preliminary economic assessment on Woxna dated October 29, 2013, has been superseded by a technical report dated May 11, 2015. As the Woxna facility is not in production but remains on a production ready status, any future decision to recommence mining at Woxna will not be based on a preliminary economic assessment demonstrating the potential viability of mineral resources or feasibility study of mineral reserves demonstrating economic and technical viability. Under these circumstances, there is increased risk of technical and economic failure for the Woxna project, and the Company discloses additional risk factors relating thereto. The Company advises that it has not based its production decision on a feasibility study of mineral reserves, demonstrating economic and technical viability, and, as a result, there may be an increased uncertainty of achieving any particular level of recovery of minerals or the cost of such recovery, including increased risks associated with developing a commercially mineable deposit. Historically, such projects have a much higher risk of economic and technical failure. There is no guarantee that production will begin as anticipated or at all or that anticipated production costs will be achieved. Failure to commence production would have a material adverse impact on the Company’s ability to generate revenue and cash flow to fund operations. Failure to achieve any anticipated production costs would have a material adverse impact on the Company’s cash flow and future profitability. Mineral resources that are not mineral reserves do not have demonstrated economic viability. The estimate of mineral resources may be materially affected by environmental, permitting, legal, title, socio-political, marketing or other relevant issues.

This presentation has been prepared, reviewed and approved by Blair Way, B.S. (Geology) M.B.A., a Fellow of the Australasian Institute of Mining and Metallurgy, the Company’s President and CEO and a Qualified Person as defined by National Instrument 43-101.
Leading Edge Materials is a publicly listed Canadian-Swedish materials company, founded in 2011 and headquartered in Vancouver, B.C., Canada. It has 100% ownership of industry-leading assets in the Nordic region and a unique position in the sustainable supply of critical materials for the high growth lithium ion battery market.

Driven by the need to reduce the impact of energy production and storage, a global electrification mega-industry has emerged with double-digit growth. Leading Edge Materials is a first mover in the sustainable supply of materials critical to European industry, as battery storage and renewable energy consumption grows.
Leading Edge Materials is a unique investment scenario, delivering the opportunity to gain exposure to high growth critical raw materials for a European market.

Investment Highlights

- Provides 100% exposure to the high growth electrification market through multiple critical materials
- First mover advantage in battery anode market with a fully constructed graphite mine
- EU Battery Alliance member, delivering high industry profile and access to public funding
- Growth opportunities through expansion to other critical materials
- Positioned for strategic acquisition opportunities within the electrification sector
- Recent Swedish listing still with low profile – rerating opportunity
- Technological disruption in transport and energy storage is accelerating.
- Significant forecast for demand for battery grade graphite due electrification of transportation
Energy Storage Is A Key Catalyst for Renewable Power

Electrification Has Arrived
Global Scale Industry Drivers

1. **ENVIRONMENT**
   - High level of individual engagement with lowering carbon emissions. The tipping point has passed. Sustainability is a key purchasing consideration.

2. **POLICY**
   - Countries are racing to meet ambitious emission targets. Widespread government incentives to create sustainable fossil free society

3. **ECONOMY**
   - Economic growth and employment security for European industry dependant on competitiveness in new industry. EU energy storage is €250bn market by 2025

4. **SECURITY**
   - Transition to a renewable energy society will deliver Europe a high degree of energy independence. Local sourcing of battery materials is a key platform.

*Future demand growth for critical raw materials is underpinned by global trends. Access to the materials that enable battery manufacture is key to creating a growing and sustainable society. Sweden and Leading Edge Materials are ahead of the pack and perfectly positioned be important contributors.*
Growth in Three Storage Segments

Portable | Stationary | Mobility

>5% | >10% | >20%

Forecasted annual growth rates until 2025
Government policy changes regarding vehicle emissions have accelerated the adoption of EVs. Mandated fuel efficiency targets for OEM fleets are widespread; plus strategies to ban IC engines in major European cities.

In October 2017, Volkswagen announced a 25% EV target by 2025, requiring over 200GWh of lithium ion battery cell production alone.

European electric vehicle purchases rose by 37% in the year to June 2018 as range grows and price falls.

How can investors gain exposure to this accelerating trend?
Energy Storage Relies on Critical Materials

Tesla Model S 85kWh

Battery pack weight: 540 kg
Contains
7,104 lithium ion cells of “18650” type
298 kg of cells in a battery pack
Each 18650 is 18mm x 64mm (slightly larger than AA)
42 grams & 3400 mAh

Each 18650 cell in the Tesla Model S contains an anode and a cathode which together are “active materials” which allow the cell to hold power

CATHODE = Nickel Cobalt Aluminium (NCA)
ANODE = Graphite

<table>
<thead>
<tr>
<th>Model S Active Material Composition</th>
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<tbody>
<tr>
<td><strong>%</strong></td>
</tr>
<tr>
<td>Cathode</td>
</tr>
<tr>
<td>Lithium</td>
</tr>
<tr>
<td>Cobalt</td>
</tr>
<tr>
<td>Aluminium</td>
</tr>
<tr>
<td>Nickel</td>
</tr>
<tr>
<td>Anode</td>
</tr>
<tr>
<td>Synthetic Graphite</td>
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<tr>
<td>Natural Graphite</td>
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</table>

Graphite is required for all lithium ion battery chemistries and range from 0.5 to 1 kg per Kwh

Over the coming decade, lithium ion batteries will become the dominant market for many active materials including graphite, cobalt and lithium
Multiple gigafactories planned, all seeking new access to sustainable critical materials. Highly import and competitor exposed

Strong EC support – estimate of EC battery industry achieving €250bn annual revenue by 2025

Founding membership of the EU Battery Alliance gives Leading Edge Materials high exposure as future anode supplier and direct access to new cell manufacturers

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Europe’s Emerging High Growth Battery Industry

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![Graph showing 2018 Global Cell Manufacture Market Share](image)

- **Northvolt (Sweden)** 32 GWh
- **TerraE (Germany)** 38 GWh
- **LG Chem (Poland)** 5 GWh
- **BMZ (Germany)** 3 GWh
- **CATL (Germany)**
- **Samsung SDI (Hungary)**
- **Leclanché (Switzerland)**
- **Tesla**
- **BDY**
- **GS Yausa**
- **Lishen**
- **GSR Capital/NEVS (Sweden)**
- **SK Innovation (Poland)** 7.5 GWh
- **Panasonic Sanyo**
- **BYD**
- **LG Chem**
- **Samsung**
- **Wanxiang**
- **GS Yuasa**
- **Lishen**
- **Other**
Driving Demand for Materials

Megafactory Impact On Raw Materials

Raw material demand vs global lithium ion cell/Megafactory capacity

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>2017</th>
<th>2023</th>
<th>2028</th>
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<tbody>
<tr>
<td>LITHIUM</td>
<td>92,240</td>
<td>375,600</td>
<td>713,200</td>
</tr>
<tr>
<td>GRAPHITE</td>
<td>138,360</td>
<td>563,400</td>
<td>1,069,800</td>
</tr>
<tr>
<td>COBALT</td>
<td>45,439</td>
<td>106,909</td>
<td>176,692</td>
</tr>
<tr>
<td>NICKEL</td>
<td>65,995</td>
<td>255,760</td>
<td>474,800</td>
</tr>
<tr>
<td>TOTAL GWh</td>
<td>134.8</td>
<td>564.5</td>
<td>998.5</td>
</tr>
</tbody>
</table>

The data in this chart does not constitute a forecast, and assumes 100% utilisation rates. Benchmark’s forecast numbers are available via a separate subscription, please contact info@benchmarkminerals.com for further information.

Source: Benchmark Mineral Intelligence

www.benchmarkminerals.com
Accelerating Demand For New Materials

Forecasts for EV uptake are very strong. By 2025, it is estimated that of the 100m cars sold globally per year, 8-12% will be EVs.

European EV sales forecasts are much higher, estimated at 25% of total sales giving 4.5 million EVs annually.

Critical material growth is equally high. Graphite demand from European EVs forecast to grow from less than 5,000t in 2017 to 250,000t in 2025. Substantial investment is required to meet this exceptional growth.

Current graphite, cobalt and lithium supply is strained or controlled by Chinese industry through supply contracts, ownership or off-take.

New and sustainable European raw materials are highly sought after to supply a fast growing industry. Leading Edge Materials will sell into this expanding market, without displacing incumbent Asian suppliers.

Electrification has created a permanent and rapid shift in demand for raw materials. Oil and gas are no longer essential to transport, while graphite, cobalt, lithium and nickel are.
Leading Edge Materials Corp

A First Mover in Sustainable Critical Materials
With few local opportunities to invest in European energy storage, Leading Edge Materials has attracted family offices and institutional investors in Sweden, Switzerland, Monaco and Germany. A dual-listing on Nasdaq First North Stockholm was chosen to meet this demand. Shares traded from January 2018.

**Shares on Issue:** 89.5M; **Fully Diluted:** 105.8M

**Market Cap:** CA$ 29M; SEK 195M; € 19M

**Cash:** CA$ 1.6M @ July 31 2018

**Daily TSX Trade Volume:** 100,000 shares

**Insider Position:** 12%

**Listed Peers:**
- Syrah Resources Ltd (ASX:SYR) MC: CA$ 770m
- Magnis Resources Ltd (ASX:MNS) MC: CA$ 195m
- Mason Graphite Corp (TSX:LLG) MC: CA$ 140m
- Talga Resources Ltd (ASX:TLG) MC: CA$ 100m
- Bass Metals Ltd (ASX:BSM) MC: CA$ 60m

TSXV : LEM
Nasdaq First North : LEMSE
OTCQX : LEMIF
FSE : 7FL
While high potential projects in jurisdictions that allow rapid development are the exception in Europe, as early movers, Leading Edge Materials has acquired a market leading position. The Company has 100% ownership of graphite, cobalt, lithium and rare earth element deposits across three mining supportive jurisdictions.

The European Commission’s “Critical Raw Materials” list that captures significance to Europe and supply risk closely matches the LEM view and aligns with investment strategies.

In October 2017, the European Commission launched the 'European Battery Alliance' in cooperation with industrial stakeholders and with Leading Edge Materials as a founding member. Delivering a European approach for the full battery value chain, focused on sustainability, starting with the extraction and processing of raw materials.

For over a decade, the Leading Edge Materials team have sought opportunities in critical materials. Through technical rigour, patience and deep networks, a portfolio of assets has been developed with varying risk and reward. And the search continues, for high merit opportunities that can grow the Company.
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Woxna Graphite Mine, Sweden
Woxna Graphite Mine – Central Sweden

Commissioned 1996 • Fully permitted until 2041
Overview: Leading Edge Materials owns one of the western world’s few permitted graphite mines in central Sweden. The Woxna mine was commissioned in 1997, and is fully permitted for 100,000 tonnes per annum feed equating to 10,000 tpa of graphite.

The project includes significant high-grade mineral resources secured by Mining Leases.

LEM is focussed on value-add opportunities for the Woxna graphite products, including battery-grade materials, expandable graphite and thermal products.

- Production facility re-opened July 2014
- Measured and indicated resource of 7.7 M tonnes at 9.3% graphite
- Test work to produce high purity graphite for emerging markets has been successful. Optimization work is on-going
- Excellent infrastructure – road, power, ports, water and services
- Unique ability to underpin a secure and sustainable European graphite supply chain.
- Road access to customers, minimizes transport and handling costs for traditional and emerging markets
Woxna Graphite Mine – The LEM Flagship

- Fully built and permitted until 2041. Includes mine, processing facility, waste management facility, and all supporting infrastructure. Excellent local community support.

- Established site where battery materials can be produced quickly with minimal disruption, ground disturbance or permitting delay

- Multiple value add opportunities

- Graphite and graphene research underway

- Graphite is an essential component of lithium ion batteries, up to 20% graphite by weight

- New customers on the doorstep incl northvolt

Leading Edge Materials owns and operates one of the western world’s few graphite mines. The Woxna mine was commissioned in 1997, has an operating permit until 2041, and includes high-grade NI43-101 mineral resources. LEM is now investing in value-add graphite opportunities including battery materials, graphene and thermal products.
### Woxna Graphite Mine - Resources

<table>
<thead>
<tr>
<th>Mining Lease</th>
<th>Classification</th>
<th>Tonnes (Mt)</th>
<th>Graphite (“Cg”) %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gropabo 1</td>
<td>Indicated</td>
<td>1.5</td>
<td>8.8</td>
</tr>
<tr>
<td>Mattsmyra 1</td>
<td>Indicated</td>
<td>3.4</td>
<td>8.4</td>
</tr>
<tr>
<td>Kringelgruven 2</td>
<td>Measured</td>
<td>1.0</td>
<td>10.7</td>
</tr>
<tr>
<td>Kringelgruven 2</td>
<td>Indicated</td>
<td>1.8</td>
<td>10.7</td>
</tr>
<tr>
<td><strong>TOTAL MEASURED</strong></td>
<td></td>
<td><strong>1.0</strong></td>
<td><strong>10.7</strong></td>
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<tr>
<td><strong>TOTAL INDICATED</strong></td>
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<td><strong>7.7</strong></td>
<td><strong>9.3</strong></td>
</tr>
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<tbody>
<tr>
<td>Gropabo 1</td>
<td>Inferred</td>
<td>0.7</td>
<td>8.7</td>
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<tr>
<td>Mattsmyra 1</td>
<td>Inferred</td>
<td>1.2</td>
<td>8.4</td>
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<tr>
<td><strong>TOTAL INFERRED</strong></td>
<td></td>
<td><strong>1.9</strong></td>
<td><strong>8.5</strong></td>
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</tbody>
</table>

*These mineral resources are calculated in accordance with Canadian Institute of Mining, Metallurgy, and Petroleum (“CIM”) guidelines and reported within two National Instrument 43-101 reports with effective dates October 11, 2013 and March 24, 2015. See [www.sedar.ca](http://www.sedar.ca) for reports and more information.*
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Norra Karr REE Project, Sweden
Overview: Leading Edge Materials is 100% owner of one of the largest heavy REE deposits globally, and the only deposit of its type within the EU. Norra Kärr is a large, well drilled resource that begins from surface to at least 300m depth. A recent PFS showed a mine life in excess of 20 years.

LEM is focused on adding value to high value by-product materials from Norra Kärr, including nepheline, silica, aluminum, zirconium and hafnium.

- Norra Kärr is a nepheline syenite intrusion, 300m wide, 800m long from surface
- REE metals are hosted by the mineral eudialyte which dissolves easily in most acids
- Resource grade of 0.61% TREO, 52% HREO/TREO = high basket price
- PFS was completed January 2015. Can produce > than 200 t of dysprosium oxide per year for at least 60 years.
- The extraction process requires no new technologies, uses common chemicals and equipment
- Only advanced REE project in the EU with extensive transport/power/water infrastructure. Close to major European REE consumers
- Numerous value-add opportunities
In the top four HREO assets
Norra Kärr – A World Class Asset
The Leading Edge Materials Team

Blair Way  
(CEO, Director)  
B.Sc., MBA, FAusIMM  
Mr. Way has over 35 years management experience within the resources and construction industry throughout Australasia, Canada, the United States and Europe.

Mark Saxon  
(Director)  
B.Sc.(Hons), GDipAppFin, FAusIMM, MAIG  
Mr. Saxon has 25 years of experience in exploration geology with a focus on critical materials. Fifteen years of executive and management experience in natural resource companies.

Michael Hudson  
(Chairman, Director)  
B.Sc (Hons), GDipAppFin, FAusIMM, MAIG  
Mr. Hudson is an explorationist and entrepreneur. He graduated from the University of Melbourne in 1990 with a B.Sc. (Hons 1st).

Filip Kozlowski  
(Director)  
MSc  
Mr. Kozlowski brings 15 years of EU capital market experience, including as investment manager for private funds, trader with a tier one bank, and as advisor to boutique investment firms.

Nick DeMare  
(CFO)  
CPA, CA  
Mr. DeMare, a chartered professional accountant, providing accounting, management, securities regulatory compliance service.

Leading Edge Materials brings together a team experienced in exploration, mining, and emerging technologies, combined with knowledge and success in capital markets. The Directorship has a long operating experience in the Nordic region, and can draw on an extensive network across European mining and financial markets.
Leading Edge Materials owns a fully built mine with operating permits until 2041, that will deliver high value sustainable battery materials to nearby European customers.

The Company is focused on the highest growth markets, geared to the wave of European electrification. Provides investors potential exposure to the electrification phenomenon in a public company.

The region will remain the key raw material supplier to Europe. Critical materials require resources, high skills and low cost energy, delivering a new Nordic “sweet spot” for investment.

Leading Edge Materials is highly experienced in operating in Europe. The Group is committed to the best practice and lowest impact in all facets of sustainable exploration, mining and manufacturing.

emerging materials • expanding markets • exceptional opportunities
Leading Edge Materials Corp

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