



GAME-CHANGING APPROACH TO LOW-COST, ENVIRONMENTALLY-FRIENDLY PRODUCTION OF MAGNESIUM INCLUDING BYPRODUCTS & CO-PRODUCTS



OPPORTUNITY FOR A LOW COST, ENVIRONMENTALLY FRIENDLY, MODULAR PRIMARY Mg PRODUCTION PLANT IN NORTH AMERICA



"...By 2025, on average, 100 pounds of magnesium will be used in each vehicle, up from 10 lbs in 2016..."

"Special Report: Vehicle Lightweighting" Automotive World, Feb. 2016



MAGNESIUM FACTS (Mg)

Mg is the lightest of all structural metals

- 78% lighter than steel
- 35% lighter than aluminum (Al)
- Mg alloys: Comparable strength-weight ratio as Al
- High vibration dampening capacity = Ideal for high speed applications

Global Primary Mg Supply (CM Group)

• 878,000 tonnes (2016)

By sector, 2016 (CM Group)

- 37% Aluminum alloying (automobile, aerospace)
- 32% Mg die-casting (automobile)
- 15% Iron & steel (desulfurization)
- 10% Titanium production (metal reduction)
- 6% Others (ex. specialty chemicals)

MAGNESIUM MARKET LANDSCAPE

Global Primary Mg Demand will increase 6.4% annually to reach nearly **1.57M tonnes in 2026**. (CM Group) **= HIGH GROWTH POTENTIAL**

Lightweighting of gasoline-powered and electric vehicles will drive growth

85% of the world's Mg metal supply is produced in China. Approach is labor intensive & environmentally unfriendly – Large carbon footprint approx. 25 T CO2eq/T Mg metal

US-imposed anti-dumping tariffs (>100%) have discouraged the use of Chinese Mg in the US

FLAGSHIP PROJECT

Two Sites Secured in Southern Quebec, Canada

Exclusive access to pre-mined serpentinite tailings residues for CA\$1.00/tonne, payable only when used.

Metal	Asbestos, QC 50M tonnes Conceptual*	Thetford Mines 60M tonnes Historical*
Magnesium (Mg)	23.2%	23.0%
Silicon (Si)	17.9%	18%
Iron (Fe)	5.4%	5.75%
Nickel (Ni)	0.24%	0.23%

Commercial-Scale High Purity Magnesium Oxide (HP MgO) Plant)

→ Operational in 2020

Low cost, novel, chlorine free, virtually zero waste hydrometallurgical process 30,000 tpa high purity MgO 33,000 tpa high purity Amorphous Silica No environmental evaluation required

Commercial-Scale Primary Magnesium (Mg) Plant

Proprietary pyrometallurgical process Aluminothermic reduction of HP MgO 5,000 tpa Mg metal modules (repeatable) 7,000 tpa calcined (alpha) alumina No environmental evaluation required under 20,000 tpa metal Low carbon footprint: Low OPEX

COMPLEMENTARY PROJECTS

Commercial MgO Wallboard SIS Assembly Plant

→ Operational in 2018 - 2019

MgO Wallboard

- Replacement for gypsum
- Exceeds latest building codes and standards for fireproofing, mold & insect resistance, and energy efficiency
- Structural Insulated Sheathing (SIS) value proposition for commercial, institutional & industrial buildings
 - 46 days vs 5 months construction time
 - Lower Overall Installed Costs (\$/m2 or \$/ft2)
- JV with Magboard LLC (USA) in 2016
- Opportunity to target lucrative Eastern US & Canadian markets **US\$1B Addressable Market**

Commercial Secondary Mg Alloy Recycling

\rightarrow In negotiations

- 50% of shares of Quebec-based Mg alloy recycling technology company to be acquired
- Unique, low cost processing technology
- Commercial plant- Target Q4 2018
- Relationships with Mg scrap suppliers and alloy customers already established
- Excellent approach to entering Mg market ahead of primary Mg production

MagPower Mg-Air Fuel Cell Technology

- MagPower Systems acquired in 2016
- Proprietary magnesium-air fuel cell
- Ready-To-Use: add water \rightarrow make electricity
- 20-yr Shelf life (Dry) with no noxious by-products
- Lantern (6W) ready for commercialisation
- Target application emergency power in remote situations : ex. lifeboats mining. disaster relief

^{*}Management's decision to begin permitting efforts, as well as its commitment to processing these tailings to recover magnesium, silica and nickel have not been based on results from a feasibility study of mineral reserves that would demonstrate economic and technical viability of the project. Without this study there is increased uncertainty and increased economic and technical risks. Management does intend to engage an engineering firm to carry out a pre-feasibility study once the pilot plant effort is nearing completion and will use the pilot data as a basis for the study.

BENEFITS

- Low-cost, game-changing technology
- Metal with a high growth potential
- Environmentally sustainable production

ACCESS TO

- Inexpensive, already-mined feedstock
- Low cost clean energy & established infrastructure (transportation, utilities, etc.)
- Lucrative North American automobile market (100 Km to US border via rail & roads)

- Rapid commercialization through modular expansion & vertical product integration
- Experienced management/scientific team
- Rapid payback of capital invested
- Region targeted for investment by all Levels of government (grants)
- Skilled labour & business-friendly jurisdiction













том

NELSON

GILLIAN

JAMES

ROB

DAVID

 Shares outstanding:
 44,077,283

 Reserved for Issuance:
 11,796,382 (as of Feb 8th, 2018)

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Mag One is listed on the CSE with the symbol, "MDD", the Börse Frankfurt stock exchange ("Frankfurt") with the ticker symbol "304" and the OTCQB with ticker symbol "MGPRF". The listings on the Frankfurt and OTCQB exchanges provide the company exposure to the European and U.S. markets and potential investors. .Certain statements contained in this presentation may constitute "forward-looking statements" or "forward-looking information") as those terms are used in the Private Securities Litigation Reform Act of 1995 and similar Canadian laws. These statements relate to future events or future performance. The use of any of the words "could", "intend", "expect", "believe", "will", "projected", "exitated", "anticipates" and similar expressions and statements relating to matters that are not historical facts are intended to identify forward-looking information and are based on the Company the Property, financing and certain corporate changes. The forward-looking information contained in this release is made as of the date hereof and the Company is not obligated to update or revise any forward-looking information, whether as a result of new information, future events, except as required by applicable securities laws. Because of the risks, uncertainties and assumptions contained herein, investors should not place undue reliance on forward-looking information, future events or otherwise, except as required by applicable securities laws. Because of the risks, uncertainties and assumption does not constitute an offer of securities for sale in the United States. CSE has not reviewed this news release and does not accept responsibility for the adequacy or accuracy of the company's forward-looking statements, lease see the Company is not constitute an offer of biclosure for Mineral Projects, and has reviewed and approved all technical information in this document.

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