AML

Reimagining the Magnet Technology that Drives the World

AML Magnets: Thinking Outside the Block!

Market & Supply Chain Overview

A Perspective into Our World

November 2025

Disclaimer & Safe Harbor

DISCLAIMER: THE MATERIAL FOUND IN THIS PRESENTATION DOES NOT CONSTITUTE AN OFFER TO SELL OR THE SOLICITATION OF AN OFFER TO BUY ANY SECURITIES. ANY OFFERING WILL BE MADE ONLY BY MEANS OF APPROPRIATE MATERIALS THAT WILL CONTAIN DETAILED INFORMATION ABOUT THE SECURITIES TO BE OFFERED. IN CONNECTION WITH ANY PLACEMENT OF SECURITIES, THE ISSUER WILL PREPARE AND DELIVER TO POTENTIAL INVESTORS AN OFFERING MEMORANDUM OR OTHER APPROPRIATE OFFERING MATERIALS RELATING TO AN INVESTMENT IN THE SECURITIES, WHICH WILL CONTAIN INFORMATION, INCLUDING A DESCRIPTION OF THE ISSUER, ITS MANAGEMENT, THE DEFINITIVE TERMS OF THE TRANSACTION AND INFORMATION CONCERNING THE MANNER IN WHICH SUCH SECURITIES WILL BE OFFERED. THIS PRESENTATION IS NOT AN OFFERING OF SECURITIES FOR SALE. ANY OFFERING WILL BE MADE ONLY BY MEANS OF AN OFFERING MEMORANDUM OR OTHER APPROPRIATE OFFERING MATERIALS. NO SALES WILL BE MADE, AND NO COMMITMENTS TO PURCHASE SECURITIES WILL BE ACCEPTED, AND NO MONEY IS BEING SOLICITED OR WILL BE ACCEPTED UNTIL SUCH OFFERING MATERIALS ARE MADE AVAILABLE TO PROSPECTIVE INVESTORS IN THE SECURITIES. RECEIPT OF THIS PRESENTATION INVOLVES NO OBLIGATION OR COMMITMENT OF ANY KIND. POTENTIAL INVESTORS WILL ALSO BE GIVEN THE OPPORTUNITY TO REVIEW THE ACTUAL DOCUMENTATION WHICH WILL GOVERN THE RIGHTS AND OBLIGATIONS OF THE PARTIES AND WILL BE AFFORDED THE OPPORTUNITY TO ASK QUESTIONS OF AND RECEIVE CERTAIN ADDITIONAL INFORMATION FROM THE ISSUER. PROSPECTIVE INVESTORS ARE NOT TO CONTSTRUE INFORMATION CONTAINED HEREIN, IN ANY OFFERING MEMORANDUM OR OTHER OFFERING MATERIALS OR IN ANY PRIOR OR SUBSEQUENT COMMUNICATION FROM THE ISSUER OR ANY OF ITS REPRESENTATIVES AS A RECOMMENDATION THAT ANY RECIPIENT OF THIS PRESENTATION INVEST IN AN ISSUER OR THAT THE SECURITIES ARE A SUITABLE INVESTMENT FOR SUCH RECIPIENT OR AS LEGAL ACCOUNTING OR TAX ADVICE. PRIOR TO MAKING AN INVESTMENT DECISION, INVESTORS SHOULD CONDUCT SUCH INVESTIGATIONS AS THEY DEEM NECESSARY TO VERIFY THE INFORMATION CONTAINED IN THE OFFERING MEMORANDUM OR OTHER OFFERING MATERIALS THAT WILL BE PREPARED AT A LATER DATE AND TO DETERMINE IF THEIR INTEREST IN INVESTING IN THE SECURITIES IS APPROPRIATE AND SUITABLE FOR THEM AND SHOULD CONSULT THEIR OWN LEGAL, ACCOUNTING AND TAX ADVISORS IN ORDER TO DETERMINE THE CONSEQUENCES OF AN INVESTMENT IN THE ISSUER AND TO MAKE AN INDEPENDENT EVALUATION OF SUCH INVESTMENT.

Safe Harbor Summary: This presentation contains forward-looking statements. These forward-looking statements include information about possible or assumed future results of our operations or our performance. Words such as “expects,” “intends,” “plans,” “believes,” “anticipates,” “estimates,” “market size,” “Total Addressable Market (TAM),” “Market Opportunity,” and variations of such words and similar expressions are intended to identify the forward-looking statements. Although we believe that the expectations reflected in such forward-looking statements are reasonable, we cannot assure you that such expectations will prove to have been correct. These statements involve known and unknown risks and are based upon a number of assumptions and estimates which are inherently subject to significant uncertainties and contingencies, many of which are beyond our control. Actual results may differ materially from those expressed or implied by such forward-looking statements. Although we have attempted to identify important factors that could cause actual results to differ materially from expected results, such forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Proposition, or other future events, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. We undertake no obligation to publicly update or revise any forward-looking statements contained in this presentation, or the documents to which we refer you in this presentation, to reflect any change in our expectations with respect to such statements or any change in events, conditions or circumstances on which any statement is based.

Our Customer Base

Applications development – We've done 100s of design studies to date

Motor and Generator Applications

AML is working with major motor and generator firms to unlock new performance value and smart supply chain strategies.

Consumer Electronic Applications

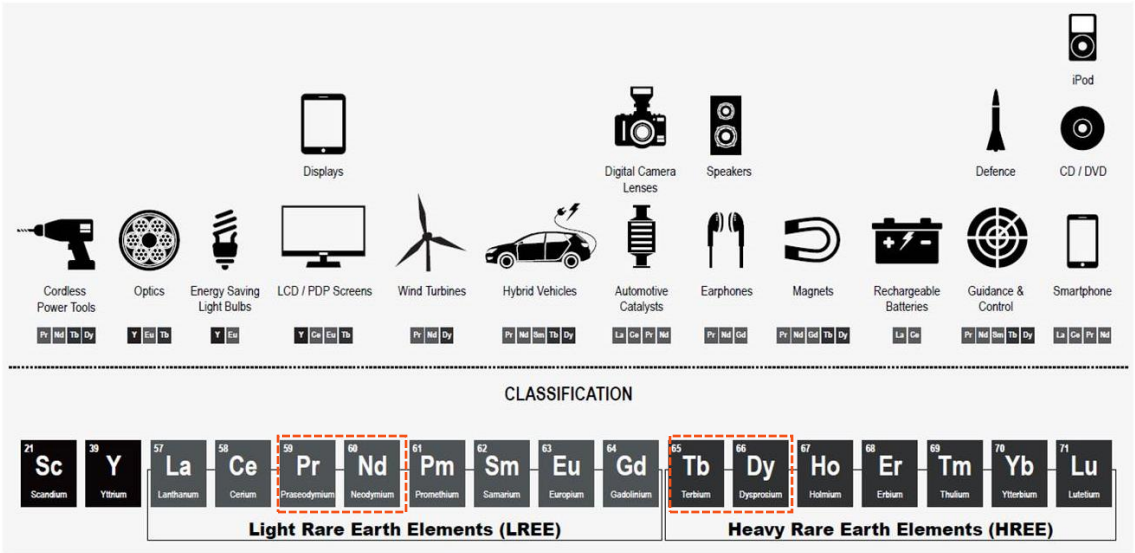
Data storage and other emerging applications are driven by the AI and quantum revolution – need for alternatives is a rapidly growing market.

Defense and Aerospace Applications

AML is engaged with firms developing motor and generator applications for defense.

Other Applications

Medical, robotics, automotive, and others.



Source: China Water Risk report, "Rare Earths: Shades Of Grey – Can China continue to fuel our clean and smart future?" (June 2016)

We are working to remove the constraints of a Neodymium, Praseodymium, Terbium and Dysprosium driven magnet supply chain.

What is the magnet supply chain?

What are Permanent Magnets?

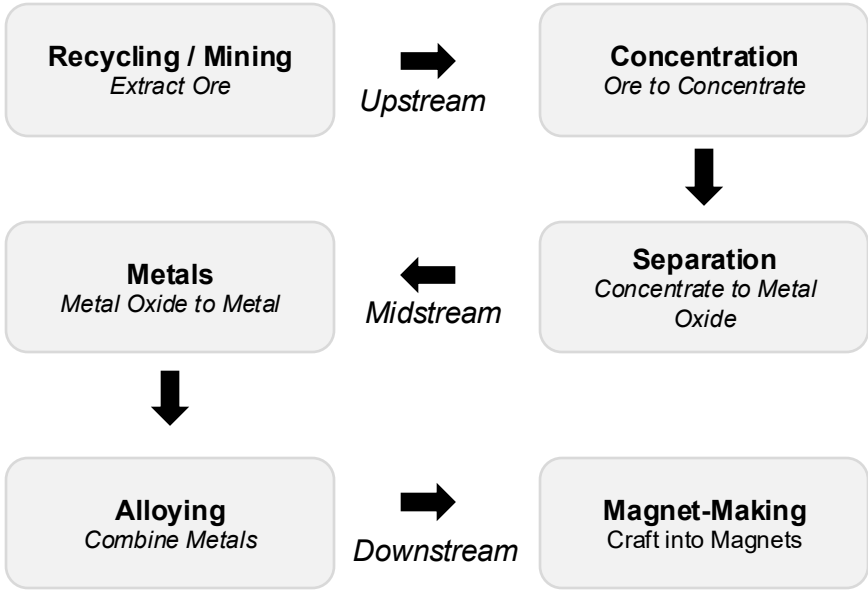
Permanent magnets are made from hard ferromagnetic materials such alloys of iron, cobalt, and nickel, or from ceramic materials such as iron oxide.

Neodymium	Neodymium iron boron (NdFeB) magnets are used in motors, generators, sensors, and applications such as power tools, MRI machines, power generation, and military uses.
Ferrite	Ferrite magnet applications include electric motors, speakers, and consumer products like refrigerator magnets.
Samarium Cobalt	Samarium Cobalt (SmCo) magnets are used in high temperature applications such as motors, actuators, and applications that require heat resistance.
Alnico and other	Motors, generators, sensors, and other component applications.

Quick Market Facts

- NdFeB and ferrite magnets account for over 90% of the global production of permanent magnets in the world.
- Heat and temperature can permanently weaken magnets – alloy compositions and magnet design can reduce this.
- Global permanent magnet market is expected to **exceed $40B by 2030**.
- Electric motors present one of the largest market opportunities for permanent magnets.

Steps in the Supply Chain



Each step may be represented by a single company or integrated together depending on the business and supply chain case.

What are we producing?

AML's Magnets – Outside the Block

AML's permanent magnets are made with the application in mind – shape, magnetization, material choice, and more.

	Description	AML Value Proposition	Target Applications
NdFeB	• Neodymium iron boron (NdFeB) sintered magnets. • AML seeks to reduce dysprosium (Dy) and terbium (Tb) where possible with magnet design.	• Flexible shapes (long straight, curved). • Flexible magnetization (radial, axial). • Single-piece Halbach (PM-360™).	• High power density permanent magnet motors. • Industrial motors.
(Mischmetal-Nd)FeB	• Sintered permanent magnets with lower content of Neodymium and no heavy rare earths. • AML replaces Nd, when needed with Lanthanum (La) or Cerium (Ce).	• Less critical rare earth elements. • No heavy rare earth content. • Increased traceability with inputs for customers.	• Permanent magnet motors with less critical REEs. • High power density permanent magnet motors.
SmFeN	• Samarium Iron Nitride (SmFeN) non-sintered magnets. • SmFeN is traditionally used in injected molded or bonded magnet making.	• Flexible shapes (long straight, curved). • Flexible magnetization (radial, axial). • Single-piece Halbach (PM-360™).	• Permanent magnet motors. • IPMs. • Industrial motors.
MnBi	• Manganese Bismuth (MnBi) was developed in the 1950s by the U.S. Naval Laboratory. • MnBi is highly corrosive, AML eliminates this issue with PM-Wire and does even more with the material than any other magnet making method.	• Rare earth free (domestic supply). • High coercivity at high temperature. • No corrosion. • High mechanical strength.	• Permanent magnet synchronous reluctance motors. • IPMs.
In Development	• AML is continuing to develop magnets with materials previously underserved by commercial markets. • **Examples include:** PM-360™ Samarium Cobalt, hybrid neodymium alloy compositions, other non-rare earth magnets.	• See above and prior slides.	• Defense applications. • High end permanent magnet motors.

AML's Market – Permanent Magnets

A Perspective into Our World

Global Magnet Market Size – 2030

Magnet Type	$ Billion	CAGR
Neodymium (NdFeB)	$29.3	9.00%
Ferrite	$12.3	7.00%
Samarium Cobalt (SmCo)	$0.7	2.50%
Alnico	$0.4	7.00%
Other	$0.3	5.00%
Total	**$43.0**	

NdFeB Magnet Market by Application

Application	Share
Offshore wind turbines	27%
Electric vehicles	28%
Consumer electronics	20%
Industrial motors	16%
Non-drivetrain motors	7%
Other sintered magnets	3%
Total	**100%**

Example Base Case – AML Potential TAM

By Business Segment	$ Billion
SmFeN displacement of NdFeB	$1.5
MnBi displacement of Ferrite	$0.7
Sintered NdFeB	$0.3
Total	**$2.5**

AML is transforming supply chains and unlocking value for customers and stakeholders.

The Math Behind the Logic:

AML Market Capture	
SmFeN displacement of NdFeB	10.00%
MnBi displacement of Ferrite	10.00%
Sintered NdFeB	0.95%

Total Addressable Market (TAM) – is the largest possible market size, assuming no constraints like competition, geography, capital scarcity, or regulation.

NdFeB Total, $ Billion	**$29.3**
NdFeB in Motor	$14.7
% in Motor	50%
% SmFeN Adoption	10%
Ferrite Total, $ Billion	**$12.3**
Ferrite in Motor	$7.1
% in Motor	58%
% MnBi Adoption	10%

Estimate Notes

- Conservative growth and market size comparable to data from industry and publicly available reports.
- Total Addressable Market is a function of target market for electric motors and potential adoption of AML technology and displacement of existing markets. AML believes that these estimates are conservative and with further analysis could be larger.
- No assumption for significant adoption of AML enabling sintered 'block magnet market' with PM-Wire.

How do we get our supply?

AML has spent nearly a decade building supply chain relationships with the biggest and the best around the world.

	Collaborations and Partnerships
NdFeB	• ReElement Technologies (oxides and metals). • Rare Element Resources (oxides). • Phoenix Tailings (metals).
Samarium Iron Nitride (SmFeN)	• Several global firms for sourcing SmFeN with strategic partnerships planned for supply and collaborative sourcing of Samarium. • AML is qualifying PM-Wire and PM-360 permanent magnets with SmFeN for motor, generator, and other customer applications.
Manganese Bismuth (MnBi)	• Several sources and strategic partnerships planned for supply and collaborative sourcing of Manganese and Bismuth (non-Rare Earth). • Powder production at AML pending further business developments with domestic suppliers.

*American Resources Corporation, a 19% stakeholder of ReElement Technologies, is a stakeholder of AML with board representation.

AML is building alliances across the magnet supply chain and unlocking new benefits for suppliers.

Our Supply Chain

AML is spearheading several supply chains driven by customer demand.

	NdFeB	(Mischmetal-Nd)FeB	SmFeN	MnBi
Magnet Material	Neodymium, Iron, Boron	Mischmetal (Mixture of Cerium, Lanthanum, Neodymium), Iron , Boron	Samarium Iron Nitride	Manganese Bismuth
Commercialization Customers	Existing NdFeB magnet market users	In development	Motor and generator companies	Motor and generator companies
Key Ingredients (1)	Neodymium (30%) Iron (68%) Boron (1%) Other (Pr, Dy, Tb)	Neodymium (15 - 22%) Iron (68%) Boron (1.5%) Other (Mischmetal)	Samarium (23%) Iron (73%) Nitrogen (3%) Other (1%)	Manganese (50%) Bismuth (50%)
Other Comments	New sources coming online an available increasingly in coming years.	Replacing Nd with Mischmetal presents significant cost savings and traceability for applicable applications.	AML has strategic partnerships developing for SmFeN and sourcing and separating Samarium ex-China.	Domestic sourcing, refining, and processing of these materials is underway in the United States.

(1) Ratios are estimates based upon public information and subject to change or be of varying opinions or preference. NdFeB generally includes dysprosium and/or terbium for performance requirements.

AML invites new opportunities for strategic relationships for sourcing oxides, metals, and alloys.

Let's Partner

AML - The Future of Magnetics

REE supply partnerships

Let's build a diversified globally supply chain for value-add magnet products

Let's build better products with magnets

Innovation for improved applications through smart magnet designs

Enabling new magnet materials for a tech revolution

AML is leading the transition to non-REEs and new materials for applications

AML-Enabled.com

Corporate Address

Advanced Magnet Lab, Inc.
1604 S Harbor City Blvd.
Melbourne, FL 32901
media@amlsm.com

Management

Wade Senti, President
wsenti@amlsm.com
321.501.6660

Philippe Masson, CTO
pmasson@amlsm.com
321.728.7543

"Magneto"
Making Better Magnets
USA