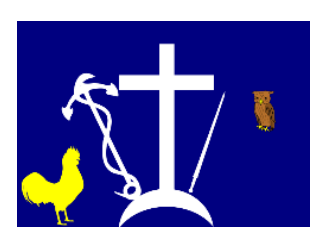




MAGFORUM 2024



Magnesium Minerals & Markets Conference

The Pomegranate Wellness Spa Hotel, Halkidiki — 13-15 May 2024

SUMMARY SLIDE DECK



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Salvador, 19-21 May 2025

Venue to be confirmed

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Welcome Reception



Tuesday Night Reception



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Grecian Magnesite	Millenis SAS	Scheruhn Industrie-Mineralien GmbH & Co	

Thank you for a fantastic conference, very well hosted and organised.

Daniel Verwey, Technology Manager, Protea Mining Chemicals, South Africa

It was a pleasure for me to participate in MagForum in Greece. This event brought the global magnesia community together for four days of informative presentations, panel discussions with experts and excellent networking opportunities.

Ibrahim Karakurt, Sales Manager, Lehmann&Voss Nederland BV, Netherlands

Outstanding venue, a really nice combination of presentations across our industry. MagForum allows me to speak to producers, distributors, and suppliers across many applications. The addition of the Roundtables has been great.

David Martin, Industrial Business Director, Premier Magnesia LLC, USA

Excellent programme, enjoyed the wide range of topics covered, well organised as usual.

Suren Dias-Jayasinha, Head of Sales & Marketing, QMAG, Australia

Thanks for hosting an unforgettable MagForum 2024 in Greece. And thanks to Grecian Magnesite for a truly well organised field tour.

Alex Medendorp, Managing Director, Magnesium Trade & Consultancy, Netherlands

Thank you very much to the whole team of IMFORMED. The conference was well prepared and organised. It was also great to see a lot of people from the Magnesia world again, to have good meetings and to make new connections. It was a great conference with many impressions and conversations. I'm looking forward to the next MagForum!

Jorn Messing, Executive Manager Raw Materials, Carl Spaeter GmbH, Germany

Some interesting and informative presentations, particularly relating to efforts on carbon reduction

Ryan Mackenzie, Director R&D, Baymag, Canada

As always it was a pleasure having nice discussions with the global magnesia community.

Lennard Spliet, Managing Director, Lehmann&Voss Nederland BV, Netherlands

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Industrial Mineral Forums & Research

Chairpersons



Mike O'Driscoll
Director, IMFORMED



Ted Dickson
*Consultant,
TAK Industrial Minerals*



Alison Saxby
*Research Director,
Project Blue*

Staff present to assist



Ismene Clarke
Director, IMFORMED



Sharon Thomas
Assistant, IMFORMED



Evie O'Driscoll
Assistant, IMFORMED

PROGRAMME

DAY 1

TUESDAY 14 MAY

07:30 **Registration**

INTRODUCTION & OVERVIEWS

08:45 **Opening Remarks & Introduction**

Ismene Clarke, Director & Mike O'Driscoll, Director, IMFORMED, UK

09:15 **Welcome Address**

Dimitris Portolos, President & CEO, Grecian Magnesite, Greece

09:30 **65 years in the world of magnesia: review of milestones & challenges**

Pantelis Vetoulas, Commercial Manager, Grecian Magnesite, Greece

10:00 **Magnesia supply trends and outlook**

Alison Saxby, Research Director, Project Blue, UK

10:30 **COFFEE**



PROGRAMME

DAY 1

TUESDAY 14 MAY

TURKEY | ADVANCED MGO USE | KEYNOTE PANEL

- 11:30 **Turkey a key source of world magnesia production & the role of Kumaş in today's challenging market**
Mustafa Çavaç, Marketing & Sales Manager Raw Materials, Kumaş, Turkey
- 12:00 **Advancing the use of MgO for the co-production of magnesium metal, spinel, and calcium aluminates**
Aaron Palumbo, CEO, Big Blue Technologies, USA

12:30 KEYNOTE PANEL DISCUSSION – MARKET OUTLOOK

- *Moderator:* Mike O'Driscoll, Director, IMFORMED, UK
- Dr Christoph Beyer, Managing Director, QMAG, Australia
- Sven Rosemann, Managing Director IImagine by COFERMIN, Germany
- David Torres, Global Marketing Manager, Minerals, RHI Magnesita, USA
- Michael Tsoukatos, Development Manager, Grecian Magnesite, Greece

13:00 LUNCH



PROGRAMME DAY1

TUESDAY 14 MAY (CONTINUED)

CARBON REDUCTION

- 14:30 **Decarbonisation developments & objectives**
Andreas Drescher, VP Decarbonisation, RHI Magnesita, Austria
- 15:00 **Lowering the environmental footprint of magnesia products: alternative materials & CO₂ capture**
Dr. Haris Yiannoulakis, R&D Manager, Grecian Magnesite, Greece
- 15:30 **Magnesium oxide production with sustainability and CO₂ reduction**
Mohamed Abdelaziz, Project Manager Magnesium Development, ENOWA-NEOM, Saudi Arabia
- 16:00 **FLSmidth: Ready to support your carbon reduction targets**
Heinz Tolke, Global Manager - Technical Sales Support, FLSmidth, Germany



PROGRAMME DAY 1

TUESDAY 14 MAY

16:30 COFFEE & ROUNDTABLE NETWORKING BREAKOUT SESSION

Informal networking & discussion at hosted & themed roundtables

THEME	ROUNDTABLE HOST
Global Supply	Alison Saxby, Research Director, Project Blue, UK
Carbon Reduction & Utilisation	Andreas Drescher, VP Decarbonisation, RHI Magnesita, Austria
Refractories	Ted Dickson, Consultant, TAK Industrial Minerals, UK
Speciality Markets	Samantha Wietlisbach, Director Minerals Research & Analysis, S&P Global Commodity Insights, Switzerland

17:30 CLOSE OF DAY 1

19:00 **Networking Dinner Reception** *sponsored by*



**LOCATION:
Foyer Main
Hall**



PROGRAMME

DAY 2

WEDNESDAY 15 MAY

MARKETS 1: REFRACTORIES | CHEMICALS

*Speaker & title
change*

- 09:00 **Hybrid aluminosilicate lining of rotary kiln for production of dead burned magnesia**
Yannis Mathios, CEO, Mathios Refractories, Greece
- 09:30 **Magnesium chemicals: review & outlook of downstream supply & demand**
Samantha Wietlisbach, Director Minerals Research and Analysis, S&P Global Commodity Insights, Switzerland
- 10:00 **Magnesium hydroxide in wastewater treatment: an effective alternative to traditional alkalis**
Mac McCreless, Managing Director, Garrison Minerals, USA

10:30 COFFEE



PROGRAMME DAY 2

WEDNESDAY 15 MAY

MARKETS 2: AGRICULTURE | SPECIALITY | HYDROMETALLURGY

- 11:30 **Magnesium silicates use in CO₂ management on farms, forests, and pastures: A supply chain view from quarry to cash.**
Adam Wolf, Chief Innovation Officer, Eion, USA
- 12:00 **Speciality applications of ultra-high surface area magnesium oxide**
Phil Hodgson, Managing Director & CEO, Calix Ltd, Australia
- 12:30 **How & why CCM is used for cobalt hydroxide production in the Central African Copperbelt**
Daniel Verwey, Technology Manager, BME Mining Chemicals, South Africa
- 13:00 **Magnesia use in hydrometallurgy: outlook for nickel and cobalt demand**
Jorge Uzcategui, Senior Analyst Cobalt & Nickel, Benchmark Mineral Intelligence, UK

13.30 LUNCH & CLOSE OF CONFERENCE



Programme

**THURSDAY 16 MAY:
FIELD TRIP TO GRECIAN MAGNESITE, YERAKINI**

PLEASE NOTE:

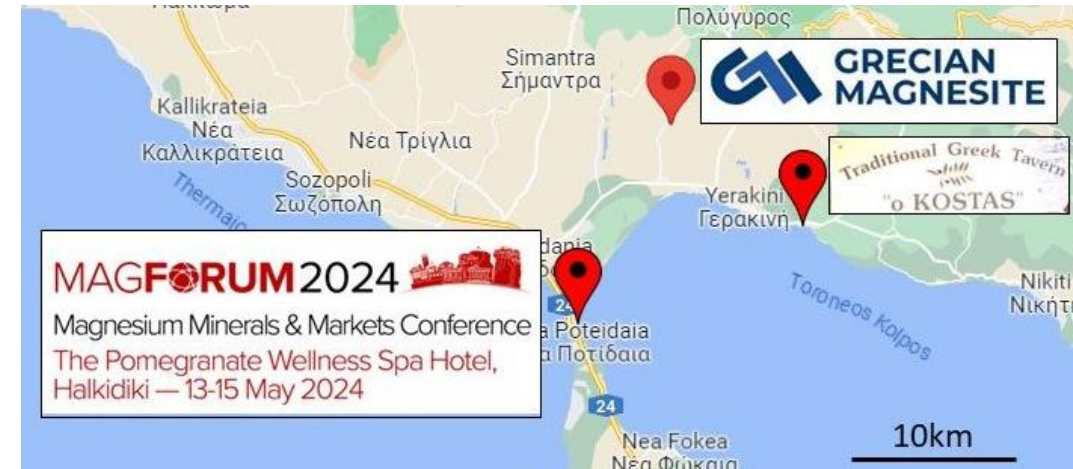
Field Trip is now full: attendees wishing to be placed on Waiting List please contact Ismene

Itinerary*

- 07:30** Meet Lobby Pomegranate Hotel
- 07:45** Bus departs from Pomegranate Hotel
- 08:30** Arrival at Grecian Magnesite, Yerakini; Welcome refreshments & presentation
- 10:00** Tour of operations
- 12:00** Departure from Yerakini
- 12:30** “Mag Art” exhibition inspired by GM’s mines in Yerakini by the Association of Visual Arts Artists of Chalkidiki, at the former GM plant & dock at Yerakini Beach.
- 13:00** Lunch at Kostas Restaurant, on the sea front at Psakoudia,
- 15:00** Buses depart to Pomegranate Hotel and Thessaloniki Airport
- 15:45** Arrive Pomegranate Hotel (16:00 Arrive Thessaloniki Airport)

* subject to change

PLEASE WEAR CLOTHING AND FOOTWEAR AS BEFITS A WORKING INDUSTRIAL SITE VISIT



MAGFORUM

SOURCE



**The world of magnesia
A world of diversity**



GRADE

MARKET



Greece & Magnesite

Where it all started?



Magnesia
(Greek: Μαγνησία)
Regional Unit of Greece

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Halkidiki — 13-15 May 2024

- derived from the tribe name *Magnetes*
- & son of Zeus, *Magnes*, first King of Magnesia
- homeland of the mythical heroes Jason, Peleus and his son Achilles.
- “Magnesite”, derived from the Greek *magnetes lithos* (μαγνήτης λίθος), = “stone of Magnesia” (also “magnet”, “manganese”)

Magnesia overview

Mineral source diversity

Other natural MgO minerals

Bischofite	$\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$
Carnallite	$\text{KMgCl}_3 \cdot 6\text{H}_2\text{O}$
Kieserite	$\text{MgSO}_4 \cdot \text{H}_2\text{O}$
Dolomite	$\text{CaCO}_3 \cdot \text{MgCO}_3$
Brucite	$\text{Mg}(\text{OH})_2$
Huntite	$\text{Mg}_3\text{Ca}(\text{CO}_3)_4$
Hydromagnesite	$\text{Mg}_4(\text{OH})_2(\text{CO}_3) \cdot 4\text{H}_2\text{O}$
Serpentinite	$(\text{Mg}, \text{Fe})_3\text{Si}_2\text{O}_5(\text{OH})_4$
Olivine	Mg_2SiO_4
Dunite	>90% olivine
Nesquehonite	$\text{MgCO}_3 \cdot 3\text{H}_2\text{O}$
Periclase	MgO



Sibelco's huntite-hydromagnesite mine in Kozani, Greece



Thermolith's olivine mine, Skoumtsa, Greece

Magnesia overview

Grade & market diversity

MAGNESIA MARKET APPLICATIONS SUMMARY						
➔ Decreasing reactivity, increasing heat treatment, refractoriness, & price/tonne ➔						
RAW MAGNESITE	700-1500°C CAUSTIC CALCINED MAGNESIA			1500-2300°C DEAD BURNED MAGNESIA	2800-3000°C FUSED MAGNESIA	
	Synthetic CCM	Natural CCM		Refractory grade 93,95,97% MgO	Refractory grate 97%+ MgO	Electrical grate 97.0%+ MgO
Mg metal Fertiliser Glass Ceramics Rubber Insulation Paper Plastics Pigment Surface coating explosives Pesticide carrier Landscaping	HP FM electrical grade Mg metal Mg chemicals Pharmaceuticals Ceramics UHP MgO	Feedstock	DBM, FM	Refractories — bricks — gunning — mixes — castables Welding	Transformer steel coatings Refractory bricks	Cable insulation Electrical elements UV sensors Hi-tech ceramics
		Cement	Insulation boards Sorel cement Adhesives Concrete/ cement Paints Abrasive wheels			
		Agriculture	Animal feed Fertiliser			
		Environmental	Water/waste FGD CCS			
		Ceramics Metallurgical flux Plastic filler Pesticide carrier Designer ceramics Foundry sand Coatings Absorbent Dessicant Flame retardant Lubricant additive Fuel additive Slag conditioner Hydrometallurgy				

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Programme/Speaker Enquiries

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CHINA REFRACTORY MINERALS **FORUM** 2024



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The latest trends and developments in China's refractory minerals supply, processing, logistics, and market demand

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The 11th China Liaoning (Anshan Haicheng)
International Magnesium Materials Expo in 2024
October 24-26, 2024
Haicheng, Anshan, China



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CONFIRMED SPEAKERS

European sea salt production & markets

Gonzalo Diaz Caicoya, President, SEASALT Europe, Spain

Solar salt works & technology developments on increasing salt yield & quality with sustainability

Dr Bhoomi Andharia, Senior Scientist, Salt and Marine Chemicals Division, CSIR-CSMCRI, India

Advancements in solar salt industry: a comprehensive exploration of automation for enhanced efficiency and sustainability

Param H Dave, Manager, Tata Chemicals Ltd, India

The California Supreme Salt project

Vladimir Sedivy, President, Salt Partners Ltd, Switzerland

Salt global supply overview & market outlook

Dr Stefan Schlag, Managing Director, Salt Market Information, Switzerland

Status of Pakistan salt supply, markets & future prospects

Ismail Suttar, Chief Executive Officer, HubSalt, Pakistan

The potential of sodium-ion batteries & salt requirements

Sean Hoffman, Critical Minerals Research Analyst, Project Blue, South Africa

Crystallizer pilot study to produce high-purity NaCl salt from monovalent-ion dominant concentrated desalination brine

Dr Christopher Fellows, Researcher, Saline Water Conversion Corp., Saudi Arabia

The role of salt in the chlor-alkali industry & its outlook

Stephanie König, Head of European Chlor-Alkali, Argus Media Ltd, UK

Innovation approach to salt plant optimisation

Titan Salt, Netherlands

Topics to include

- Resources & New Sources
- Exploration & Development
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- Regional Supply Trends
- Market Demand
- Processing Developments
- Logistics
- New applications

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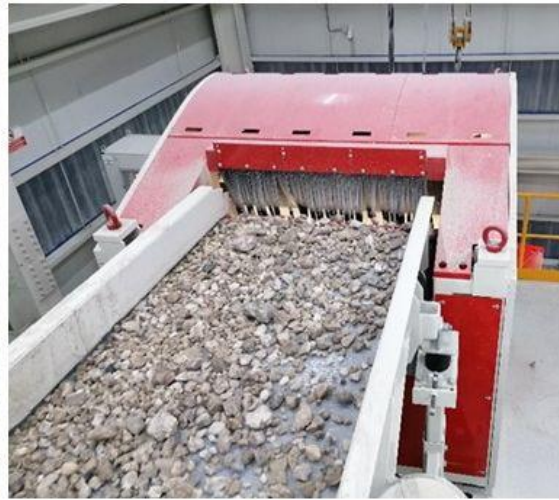
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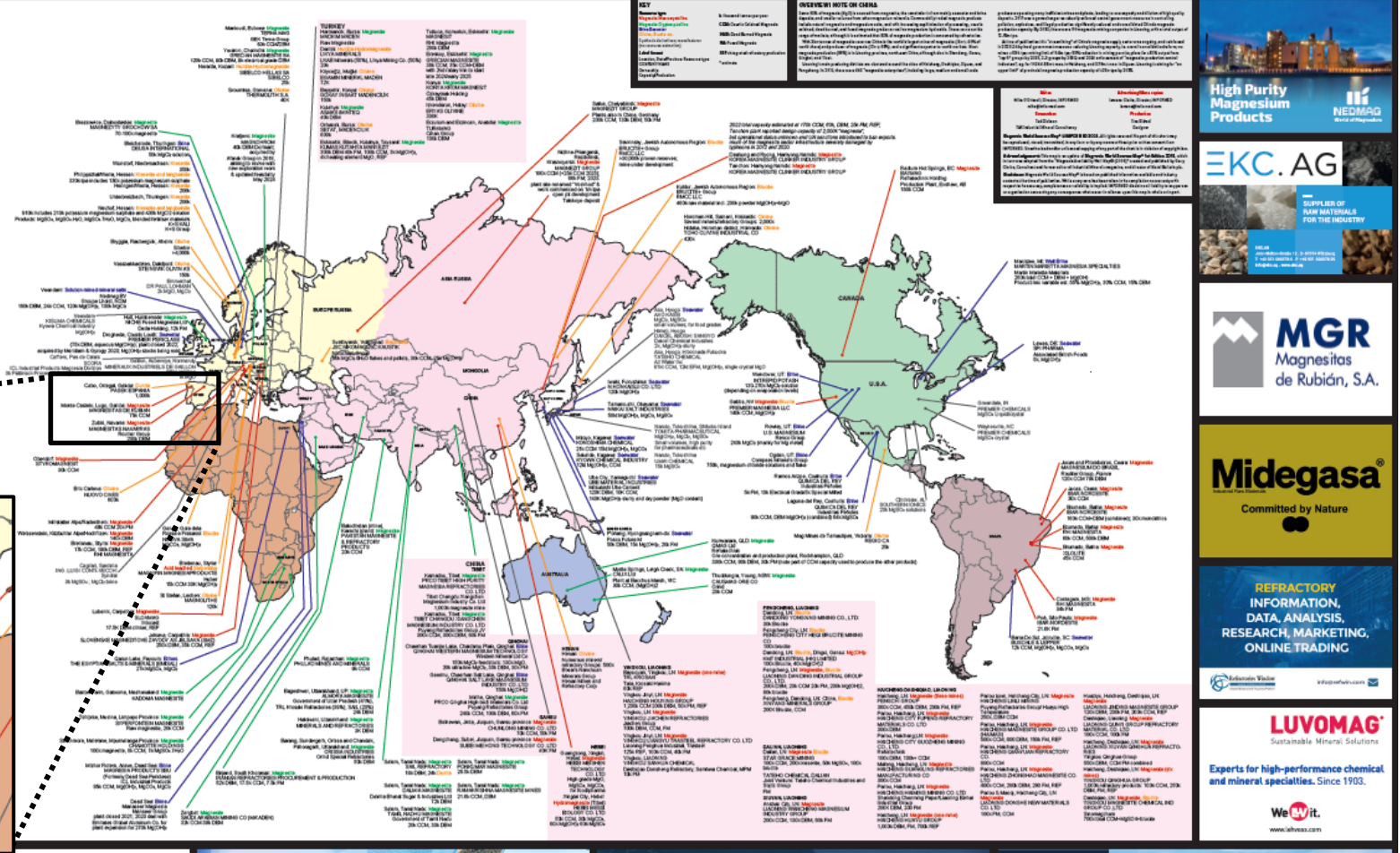
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Refractory minerals overview

World distribution of primary established sources of main minerals

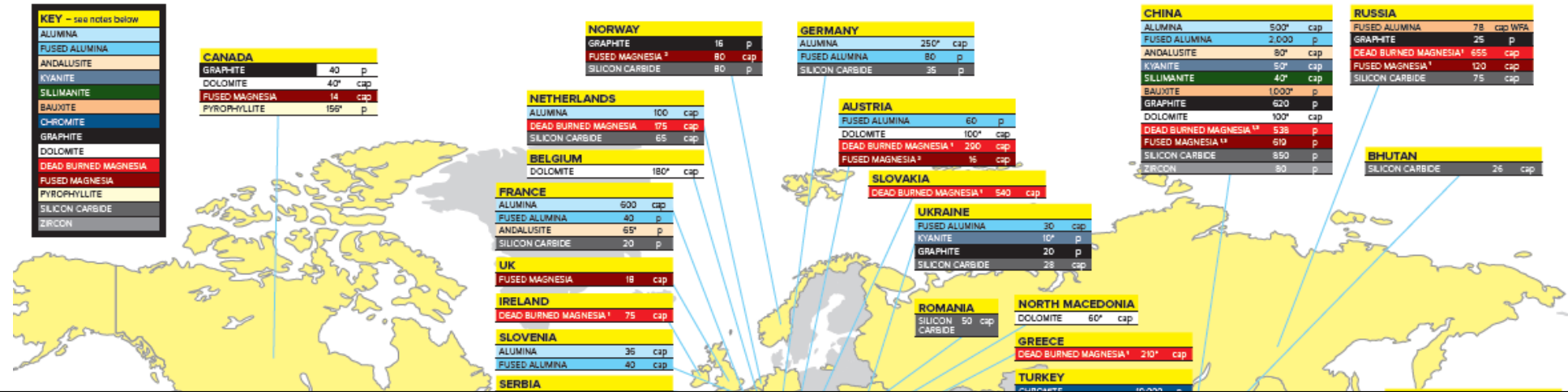
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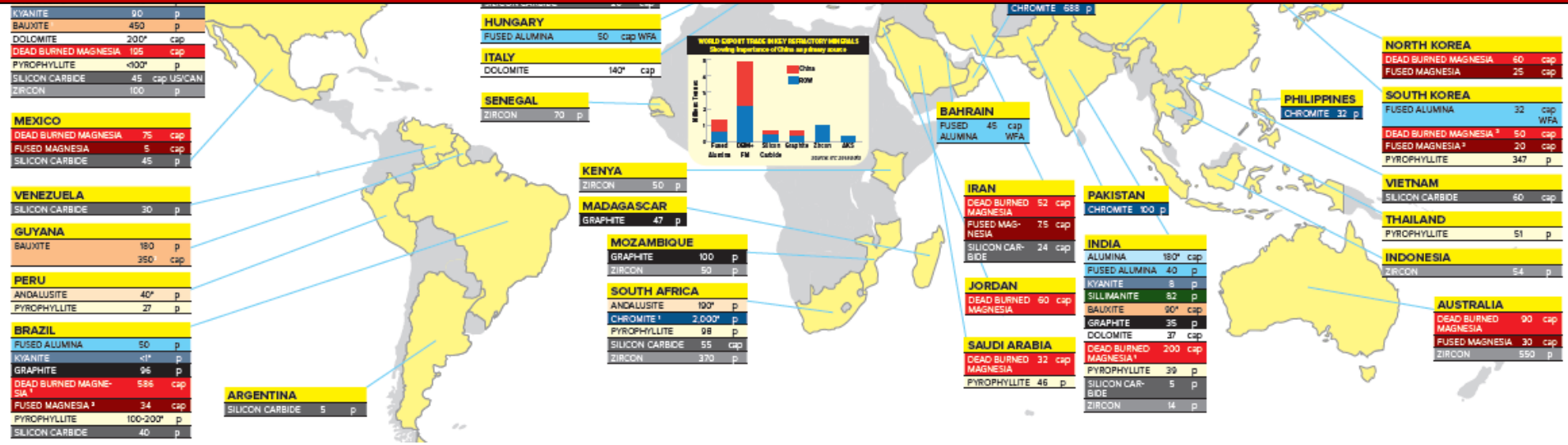
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KEY - see notes below

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FUSED ALUMINA	
ANDALUSITE	
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SILLIMANITE	
BAUXITE	
CHROMITE	
GRAPHITE	
DOLomite	
DEAD BURNED MAGNESIA	
FUSED MAGNESIA	
PYROPHYLLITE	
SILICON CARBIDE	
ZIRCON	



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