Boston Metal is commercializing Molten Oxide Electrolysis (MOE), a tonnage metals technology platform powered by electricity, to decarbonize steelmaking and transform how metals are made. MOE provides the metals industry with a scalable, cost-competitive and green solution for the production of steel and high-value metals from a variety of feedstocks and iron ore grades. Backed by visionary investors and led by a world-class team, Boston Metal is headquartered in Woburn, Massachusetts and has a wholly owned subsidiary in Brazil. Learn more at www.bostonmetal.com.

Our technology

When applied to steelmaking, MOE replaces fossil fuels with renewable electricity to convert all iron ore grades into steel through an energy efficient, one-step process that has the potential to cut nearly 10% of the world’s carbon emissions. MOE eliminates multiple steps in traditional steelmaking, like coke production, iron ore sintering and pelletizing, blast furnace reduction and basic oxygen furnace refinement. The modular MOE cells can be scaled to reach capacity targets and do not require process water, hazardous chemicals or rare-metal catalysts.

Once this groundbreaking steel decarbonization technology becomes commercially available in 2026, steel producers will be able to cost-effectively achieve net-zero Scope 1 and 2 emissions to meet the growing global demand for green steel.

MOE also offers a sustainable and profitable solution for the mining industry as it can be used to extract valuable metals from complex, low-concentration materials that are currently considered waste. This enables mining companies to leverage a natural by-product of metal production to create new revenue streams.

By the numbers

Over $350 million raised as of September 2023
170+ employees

2013 2018 2022 2024 2026
Company founded First venture capital round High-value metals subsidiary opened in Brazil First revenues from MOE high-value metals business anticipated Expected commercial deployment of MOE steel
Our team

From a small group of visionary researchers, engineers and metallurgists, we’ve grown to a team of over 170 professionals – and counting.

LEADERSHIP

Tadeu Carneiro
Chairman & CEO

Itamar Resende
President, Boston Metal do Brasil

Fernanda Fenga
SVP, Corporate

Adam Rauwerdink
SVP, Business Development

Investors

Aromco
ArcelorMittal
Baillie Gifford
BHP
Climate Investment
Energy Impact Partners
M&G Investments
Microsoft
PIVA
Prelude Ventures
SiteGround
VALE

Awards

2023 GLOBAL CLEANTECH100 AWARDS
BNEF pioneers
S&P GLOBAL PLATTS GLOBAL METALS AWARDS 2021 WINNER

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