SaltX achieves significant breakthrough at its plant for electrified, emission-free quicklime production

SaltX today announces that the company has achieved key milestones in material quality and operational runtime during tests conducted at its pilot facility in collaboration with SMA Mineral. The company has also produced a significant volume of high-quality quicklime, which will now undergo testing and evaluation in steel production. This success marks an important breakthrough, paving the way for further commercialization and expansion.

Since the fall of 2024, SaltX has focused substantial resources on conducting extensive technology and material testing at its test and research facility (ECRC) in Hofors. The primary objectives have been to ensure high material quality (degree of calcination and reactivity) and extend operational runtimes while maintaining material quality. These goals have now been met, and a delivery of electrically produced quicklime is being prepared for testing in steel production at a Swedish steel manufacturer during the spring of 2025. Lina Jorheden, CEO of SaltX:

“This breakthrough proves that the technology and concept for electrically produced quicklime meet the highest quality standards and are scalable. We can now take the next step in our validation and scaling plan for the technology and begin preparations for additional material testing.”

SaltX has fulfilled the quality requirements for calcination (material and reactivity) relevant to the steel, pulp, and paper industries, confirming a stable and high-quality process well-suited for industrial application. In specific test runs, the operations team has achieved a calcination rate of 99 percent (carbon content <0.1%), proving the potential of the technology. After numerous adjustments and optimizations to the overall system, the company has also surpassed the target of plant operating hours with consistent material quality. Lars Croon, CTO at SaltX, explains:

"In 2022, we verified our solution at our initial pilot plant. Now, we have demonstrated that the technology is scalable, which is a significant achievement and something I take great pride in.”

SMA Mineral has played an active role in the extensive testing that has been underway at the SaltX facility in Hofors. Svante Fielding, CEO of SMA Mineral, states:

“These results are very encouraging and of utmost importance to us in our continued journey towards building the electrified and emission-free lime plants of the future.”

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About SaltX Technology
SaltX is a Swedish Greentech company that develops and markets sustainable technologies that benefit customers, the climate, and society. The company focuses on the electrification of emission-intensive industries such as the lime and cement industries. SaltX Technology's share is listed on Nasdaq First North Premier Growth Market, with FNCA Sweden AB as the Certified Adviser. For more information, visit: www.saltxtechnology.com.

About SMA Mineral
SMA Mineral is one of the largest lime producers in the Nordic region, supplying lime to the steel, paper, and pulp industries, as well as many other applications. Since its inception in 1980, SMA has been at the forefront of extraction, processing, and distribution of products based primarily on calcium carbonate and dolomite. With a constant commitment to sustainability and environmentally responsible methods, SMA's minerals are crucial components in various industries including steel, paper, and water and flue gas purification. For more information, visit www.smamineral.se.

About Electric Arc Calciner (EAC)
EAC is a patented technology for electric calcination, an industrial process where materials are heated to extremely high temperatures to alter their characteristics. This technology replaces fossil fuels with renewable energy and separates and isolates the carbon dioxide released from the material during heating, enabling a completely emission-free production process.

About Electric Calciner Research Center (ECRC)
ECRC is an industrial test and research facility for electric calcination, located in Hofors, Sweden. The facility serves as the bridge between the previous smaller pilot project and the full-scale industrial plants that will be established with our partners.