New technology from SaltX enables production of "green quick lime" – results verified by the industry

SaltX Technology´s innovation is called Electric Arc Calciner (EAC), which can electrify the production of quick lime and at the same time separate and capture CO2 from the limestone. The innovation has the potential to remove all emissions from the lime industry. Leading actors in the sector have verified the positive results.



Lime is one of the most common materials in the world. It is an essential material for manufacturing steel, building materials, paper, and is also used in purification of water among many other use cases. Together with the cement industry, they account for 19 percent of total CO2 emissions in Sweden. In the process of manufacturing quick lime, a technique called calcination is used. In this process, CO2 emissions happen on two occasions, during fossil-fueled heating and when the material reaches a specific temperature.

With SaltX innovation, fossil fuel gets replaced with renewable energy, and CO2 emissions are isolated and captured in the production as a by-product. Lars Croon, Head of Process at SaltX, says:

- Today's manufacturing process for lime and cement is outdated and unsustainable, and emissions must be heavily decreased. We have rethought and applied innovative technology and knowledge from the ground up to create a net-zero solution that is scalable and has the potential to get started producing "green limestone."

Industry stakeholders have verified the results and the technology has gained significant interest from the market. Due to the increased market interest, SaltX and ABB have deepened their collaboration for the electrification of the lime industry. Carl-Johan Linér, CEO of SaltX comments:

- The electrification of energy-intensive industries is crucial for making the necessary green transition to reach net-zero emissions. With our patent-pending electrified calcination technology, we enable the production of decarbonized lime, which is a fantastic effort from our engineering team.

The innovation will also be used as a charging reactor for SaltX energy storage solutions to increase charging temperatures for increased power and scalability.

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About calcination
Calcination is a process in which solids change by heating to a hot temperature but not to their melting point. The purpose of calcination is usually to drive away a substance, cause a phase transition or cause a chemical reaction, often oxidation or reduction. Calcination often makes the material harder and more stable or more reactive. Calcination is, therefore, sometimes considered a purification process.

About SaltX Technology
SaltX Technology develops and sells patented energy storage solutions. SaltX works to develop and offer sustainable technology and solutions that benefit customers, the climate, and society. SaltX Technology's share is listed on the Nasdaq First North Premier Growth Market. FNCA Sweden AB, + 468-528 00 399, info@fnca.se is SaltX Technology's certified advisor. For more information, visit www.saltxtechnology.com