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Insights _ Polysius

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thyssenkrupp Polysius wins
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contract for the construction of the world's largest activated clay plant with a capacity of 3000tpd.

The plant will be located in the Brazilian state of Para, where the high-quality clay will be sourced from the gigantic clay reserves of the iron ore complex of Carajás and up cycled. The kaolinite content of the clay – up to 80% – is the reason for the very high quality of the product, which will be used as Supplementary Cementitious Material (SCM).

„We are honored to partner on this landmark project.“

Christian Myland, CEO of thyssenkrupp Polysius

"Leveraging high-quality local clay and our advanced activated clay technology, this plant will set a new benchmark for a carbon-conscious cement production", says Christian Myland, CEO of thyssenkrupp Polysius.

Circlua and thyssenkrupp Polysius have already started a vivid and ambitious technology partnership to develop a unique plant involving innovative technologies to calcine the clay using electrical-based solutions. The use of renewable electricity from the amazing renewable energy potential of Brazil, in particular its abundant and competitive hydroelectric energy, to power the plant is a key driver to target carbon neutrality, making the activated clay that will be produced for the global market, a unique SCM.

„This project reflects our dedication to advancing future-ready solutions.“

Dr. Luc Rudowski, Head of Innovation at thyssenkrupp Polysius

"Combining activated clay technology with renewable energy is a game-changer for reducing the industry's carbon footprint", added Dr. Luc Rudowski, Head of Innovation at thyssenkrupp Polysius.



The bottom line: Raw clay is available in large quantities worldwide. With polysius® activated clay, thyssenkrupp Polysius offers an innovative solution for the industrial use of previously hardly used clay sources as a substitute material and a sustainable, cost-effective alternative to conventional cement clinker.
