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Insights _ Polysius

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thyssenkrupp Polysius builds flash activator for CIMPOR Ltd. in Ghana

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CIMPOR Global Holdings, as a pioneer in activated clay manufacturing, will also become the largest activated clay producer in the world. The Ghana plant will be the 4th clay activation facility of the company and the total activated clay capacity will reach up to 1.5 million tons of activated clay per year.

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Leo Fit, Product Owner polysius® activated clay

Leo Fit, Product Owner polysius® activated clay: "Our technology is not only more environmentally friendly, but also creates cost benefits for our customers like CIMPOR Global Holdings. In many regions, limestone is scarce and clinker has to be imported at high cost. At the same time, suitable clay sources are available. The increasing pressure to reduce greenhouse gas emissions is leading cement manufacturers to rethink. They need an alternative that is cost-efficient and at the same time provides high-quality cement. This is exactly what polysius® activated clay offers."

With polysius® activated clay, thyssenkrupp Polysius has developed a technology that can reduce the clinker factor below 50 %. The clay is heated at much lower temperatures compared to the clinker production. In addition, the total heat requirement for clay activation is lower. Due to the significant energy savings in the production of thermally activated clay, and virtually no raw material-related CO₂ emissions, CO₂ emissions per ton of cement can be reduced by up to 40 percent.

This is the second time that CIMPOR Global Holdings has relied on thyssenkrupp Polysius' activated clay technology. The cement manufacturer already awarded thyssenkrupp Polysius with the construction of an activated clay plant near the Cameroonian seaport of Kribi.

Technical scope

The contract includes engineering, supply of core equipment and supervision. This includes parts of the clay handling, the preparation of the clay by means of a hammer mill, the drying in the flash dryer, the preheating, activation and cooling as well as the subsequent storage of the activated clay in silos and its loading. The Tema plant is fired with natural gas.



The bottom line: Raw clay is available in large quantities worldwide. With polysius® activated clay, thyssenkrupp Polysius GmbH 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.
