



thyssenkrupp

Insights_Polysius



Eagle Materials Inc. entrusts
thyssenkrupp Polysius with the
modernization and expansion of
its Cement Plant in Laramie,
Wyoming

Eagle Materials Inc. has awarded thyssenkrupp Polysius with the modernization and expansion of its Laramie, Wyoming cement plant. The

existing plant, which became operational in 1926, provides cement to several markets, including the growing northern Colorado area, Nebraska, Utah, and Wyoming.

The modernization project entails incorporating state-of-the-art technology to enhance operational efficiencies, resulting in a significant expansion of the plant's annual manufacturing capacity to approximately 1.1 million (metric) tons of cement. The project also furthers the customer's sustainability roadmap with the installation of an alternative fuel substitution system.

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Olivier Terver, President of thyssenkrupp Polysius North America

Olivier Terver, President of thyssenkrupp Polysius North America, states, "This project reflects our steadfast commitment to supporting our customers every step of the way. From maintenance services to green technology integration and full plant modernization, we address both our customers' evolving demands and our shared environmental responsibilities."

Benefits of the Polysius Design:

Putting safety first, the plant was designed with innovative features that improve both construction and daily operations. The modernization of the cement plant will deliver numerous benefits, including cost reductions achieved with lower-cost alternative fuels and natural gas, simplified maintenance, and improved operational efficiencies. The production expansion from the new finish mill will supplement the grinding capacity of the existing plant, which already operates with an integrated polysius® booster mill. The state-of-the-art polytrack® ECO cooler will facilitate efficient heat recovery and clinker cooling while improving process reliability.

Technical Scope:

- Limestone Impact Crusher Circuit
- quadropol® Vertical Roller Mill
- Blend Silo
- Five-Stage Preheater
- Two-Pier Rotary Kiln with polguide® Drive System
- In-line Calciner

- polysius® Step Combustor for Alternative Fuels
- polytrack® ECO Clinker Cooler

The bottom line: The project, which has received primary regulatory approvals, is slated to commence immediately, with construction scheduled for completion by the second half of year 2026.
