

ENERGY STARS



Phoenix Cement Company's cement plant in Clarkdale, Arizona was honored with the U.S. Environmental Protection Agency (EPA) ENERGY STAR® award.

The plant scored a 97 on the Energy Performance Indicator used by the EPA to establish energy efficiency. In order to qualify for an ENERGY STAR® award a score of at least 75 is required. In addition, the plant must have a three-year history of complying with several other environmental regulations.

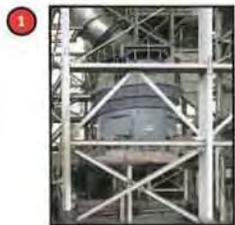


"This score puts us in the upper 25 percent of energy efficient plants in the United States," Roger Smith, President and CEO of Phoenix Cement Company. "We are very proud of the plant's accomplishment."

The Phoenix Cement plant features energy efficient roller mills for coal, raw meal, and finish grinding. The finish grinding mill was the first such mill to be installed in the U.S. In addition, an energy efficient clinker cooler captures and uses more waste heat in the system.

Along with significant energy savings, these improvements allow the plant to reduce emissions and water consumption.

For more than a decade, the cement industry has been dedicated to manufacturing a superior product while continuously challenging manufacturing policies and procedures to improve energy efficiency and minimize emissions. It was among the first major industries to tackle the issue of climate change, and it has remained at the forefront of developing policies and improving the manufacturing process. In 2000, the industry created a way to measure carbon dioxide (CO₂) emissions, and by the year 2020, the industry plans to voluntarily reduce CO₂ emissions by 10 percent below the 1990 baseline.



1 OK Mill - First 4,000 hp vertical roller mill for cement grinding in the USA. 40% more efficient than typical ball mill grinding system.

2 Clinker Cooler - SF Cross-Bar cooler which allows better heat recovery for secondary combustion air for firing the kiln and improved stable operation.



3 Raw Mill - FRM 2250 hp vertical roller mill for raw meal grinding. 40% more efficient than a typical ball mill grinding system. Also uses hot preheater gasses rather than natural gas for drying.



4 Preheater/ Kiln - 5 stage Low-Nox ILC preheater/ calciner and a 2-support 4.4 meter x 48 meter friction drive rotary kiln with a DOUFLEX Low-Nox burner. 50% more efficient than typical long dry kiln system.

5 Coal Mill - FRM 350 hp vertical mill for coal grinding. Uses hot preheater gases for drying, produces a uniform fuel for good combustion and does it with significant energy savings over similar coal grinding systems.



Mission Statement

Creating Opportunities and Solutions with Quality Products and Exceptional People

Values

Profitability The Right Way... Integrity, Accountability, Excellence