



**Service/Product Provider**

**FLSmidth Inc.**  
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Bethlehem, PA 18017

Business: Industrial Equipment Manufacturer  
and Services Provider

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**Industrial Partner**

**Titan Florida Cement – Pennsuco Plant**  
11000 NW 121st Way  
Medley, FL 33178

Business: Cement Manufacturing

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**FLSmidth reduces energy at processing facilities saving Titan Florida Cement \$55,000 annually**

**Project Scope**

FLSmidth Inc. (FLS) evaluated heat efficiency, power efficiency, processes, mechanical operation and controls for the crushing and vertical coal mill systems at the Titan Florida Cement – Pennsuco Plant.

**Project Summary**

FLS provided equipment operational analysis, energy analysis, design recommendations, and operational support identified during the assessment. Implemented recommendations included adjusting mix control programming of limestone feeders in front of the crusher to provide maximum consistent flow of material, repairing the coal mill product sampling system to work in scheduled time intervals in order to make the necessary adjustments to maximize the efficiency of the grinding system, and altering the coal mill operating approach to maximize production and decrease specific power consumption.

- **Energy Savings**  
\$50,000/yr from improvement in vertical coal mill production efficiency and \$5,000/yr based on improvement in limestone crushing production efficiency
- **Investment**  
\$23,000 for the audit and repairs, in addition to a customer credit provided by an association
- **Financial Return**  
5 month payback on cost of audit services, trip expenses and equipment repairs
- **Other Benefits**  
Improved maintenance and operating time

**Monitoring & Verifying Energy Savings**

Final inspection was performed on site after recommendations were carried out, ensuring maximum savings from the project by tuning the process to operate at peak efficiency.

**Distinguishing Value**

FLSmidth Inc. was able to provide engineers with 40 years of total cement processing experience to provide a quick return on investment for Titan Florida Cement. FLSmidth's support of Titan's production facilities through the years has fostered a strong relationship that facilitates making equipment upgrades and operational recommendations such as this assessment at the Pennsuco facility.