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Our Services:

PEC Consulting does a comprehensive evaluation of the overall performance of the plant's operations to identify areas which are not performing at levels according to benchmarks for the type of facility. After a detailed evaluation, recommendations for plant optimization are made.

PEC Consulting has experienced staff to undertake Energy Efficiency Audits and provide ongoing technical assistance to improve operational performance.

We will:

- Visit the plant and talk with the plant's operating personnel
- Collect data of historical stoppages and operating parameters
- Analyze the data to identify areas of improvement
- Submit a report providing observations and recommendations, including economic analysis to establish the cost/benefit ratios
- Develop an implementation program with Plant Management
- Work with Operating Personnel until the prescribed performance goals are achieved!

- **Benchmarking.** Plant audits evaluate the operation of a cement plant against the appropriate benchmark for the plant areas being analyzed. Based on the plant's conditions and specific requirements, comparison with the appropriate benchmark is done in order to improve targets.
- **Historic Evaluation.** Plant operational and stoppage data is collected, reasons for the stoppages are analyzed by department; trends are drawn and evaluated.
- **Thermal Energy** use reduction results in substantial \$ savings, and the reduction in unit heat consumption usually results in production increase.
- **Electrical Energy.** Large fans and mills drives are major consumers of electrical energy. Fan power is linked to specific heat consumption and many other operations parameters. Optimization of these parameters will lower power consumption. Ball Mills charge optimization and mill internals redesign will significantly reduce power consumption. Vertical Mills inspection of mill internals, separator, and adjustments in the operation will bring about improvements, both in energy consumption and production increase.

