

## Out with the Old and In with the New

*The Kaeser solution brings metal products plant serious green*

### PROBLEM:

For many years, the compressed air system at a metal products plant grew without taking the time to weigh the energy consumption and age of their current compressed air equipment. When production changes caused pressures to drop below acceptable levels, the plant simply added a new compressor to their existing system, without removing older compressors (averaging 15 years but ranging up to 36 years old).

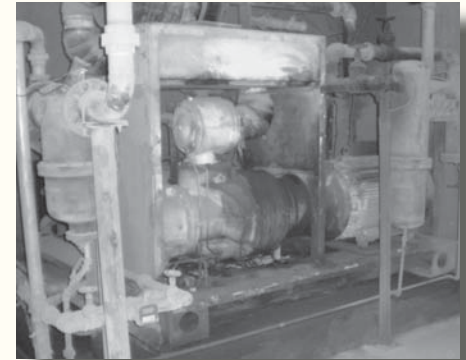
### SOLUTION:

A comprehensive Kaeser Air Demand Analysis (ADA) was performed on the plant's air compressor system to help them understand the compressed air issues they currently had and make sound recommendations on system improvements. Kaeser also completed a leak detection audit, not only documenting the size and location of each leak but also quantifying the overall leakage cost to the facility.

### RESULT:

Kaeser identified approximately 75% potential compressed air system energy consumption savings. Taking Kaeser's recommendations, the leaks were fixed, the black iron piping was updated with Kaeser SmartPipe™ and a new compressed air plant design was installed, including a Kaeser Sigma Frequency Control (SFC) compressor and Sigma Air Manager (SAM) Master Controller. In the end, Kaeser's compressed air solution yielded the following results:

|   |                   |
|---|-------------------|
| Operating Energy Cost for Previous System:                  | \$90,000 per year |
| Estimated Savings for Fixing Leaks:                         | \$51,000 per year |
| Estimated Savings from New Compressors and System Controls: | \$17,000 per year |
| <b>Total Annual Energy Savings:</b>                         | <b>\$68,000</b>   |
| Utility Incentive:  | \$25,000          |



# REDUCE, REUSE, RECYCLE

**A**ny school age child knows these three R's to eliminating waste, saving energy, and protecting the environment. But in the rush to identify the next breakthrough energy technology — will it be solar, wind, or biodiesel — what often gets overlooked is the first on the list: reduce.

Though often not as interesting as the others, reducing energy consumption is almost always the most cost effective, as well as the quickest and easiest to implement. This is certainly true with compressed air energy.

As the air systems specialist, we have developed a unique Kaeser Air Demand Analysis (ADA) program. No other approach offers our distinctive combination of affordability, convenience, and comprehensiveness. Our air system audit provides a complete and accurate air demand and consumption profile without interrupting daily operations and is suitable for all system sizes.

Our field service experts have the knowledge, experience, and tools to evaluate your air system and make solid recommendations that can reduce your energy costs up to 50% and often increase productivity.

**Call us today, you'll thank us tomorrow!**



Data logging with highly accurate sensors are attached to the system to monitor the compressed air usage (top). Time-stamped data logging enables more thorough analysis (bottom).

Kaeser's Air Demand Analysis takes out the guesswork and provides unbiased compressed air system data collection to give you an accurate picture of system dynamics with meaningful analysis. Learn more at [kaeser.com/ada](http://kaeser.com/ada).

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