



Intelligent Solutions for Compressed Air Systems

Stillwater Mining Company (NYSE: SWC) is one of the world's leading producers of platinum group metals (PGMs) and the only significant primary producer of palladium in the Western Hemisphere. Located in Montana, USA, Stillwater Mining makes a strong commitment to safety, the environment and excellence in producing metals dedicated to clean air.

COMPRESSED AIR CONCERNS

Stillwater needed better management, control and reliability of compressed air delivery throughout their mining process. To that end, they needed to transform individual compressors into a facility-wide energy efficient network.

COST-SAVING SOLUTIONS

With the installation of Pneu-Logic's patented compressed air management technology, Stillwater's network **constantly analyzes air flow**

and related data to dynamically adjust compressor performance to changing demand conditions. Total electrical energy cost savings at the Stillwater Mine site currently **exceed \$200,000 annually**.

Total electrical energy cost savings at the Stillwater Mine site after installation of Pneu-Logic's patented compressed air management systems and technology are more than \$200,000 annually.

In addition, Pneu-Logic solutions applied to Stillwater's compressors (rated at 3,350 HP) resulted in the following:

- ▶ Individual compressors transformed into a facility-wide network, turning systems on and off at any frequency necessary to save energy efficiently, and meet dynamic system wide requirements.
- ▶ Unprecedented control and dependability of compressed air delivery throughout Stillwater's mining process.

Success Story:

Stillwater Mining





PNEU-LOGIC SYSTEM INSTALLATION AND INTEGRATION

Networked Compressor Deployment included three separate compressor rooms at the mine site:

- ▶ Westside (3 Gardner Denver - 500 HP)
- ▶ Off-shaft (2 Gardner Denver - 500 & 250 HP)
- ▶ Eastside (2 Ingersoll Rand - 550 HP)

Pneu-Logic Compressor Management Network included:

- ▶ Communication between the three compressor rooms at the mine site is via a Cisco radio network
- ▶ Remote sensor input over network
- ▶ Central Pneu-Logic management processing

Energy Savings at Stillwater:

- ▶ Montana Power provided Stillwater Mining Company with utility incentives in the form of self-directed funds

Pneu-Logic Technology Managed Compressors:

- 4 - Gardner Denver - 500 HP Compressors
- 2 - Ingersoll Rand - 550 HP Compressors
- 1 - Gardner Denver - 250 HP Compressors
- 7 - Compressors, rated at 3,350 HP

About Pneu-Logic

Pneu-Logic is a privately owned company located in Portland, Oregon, with Authorized Resellers located in the US, EU, and South Africa. As the industry leader in advanced compressed air energy efficiency management systems and control technology, Pneu-Logic helps companies 1) substantially reduce industrial compressed air electrical energy consumption and costs through improved operational management and control efficiency, and 2) increase industrial net productivity by reducing process latency periods between demand and supply for air through “real time” compressed air flow management. Pneu-Logic also offers best-in-class compressed air engineering services and assessments.

Contact Pneu-Logic

If you're interested in learning more about our advanced systems and engineering services designed to decrease electrical energy costs and improve system performance, contact us today. Call us toll-free at 866.348.5669 or visit us on the web at www.pneulogic.com.

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