

Mining Compressed Air Station Valves



Benefit:
5.5MW_{Peak} & 3.2MW_{EE}
R27.3M Energy Savings
per Year



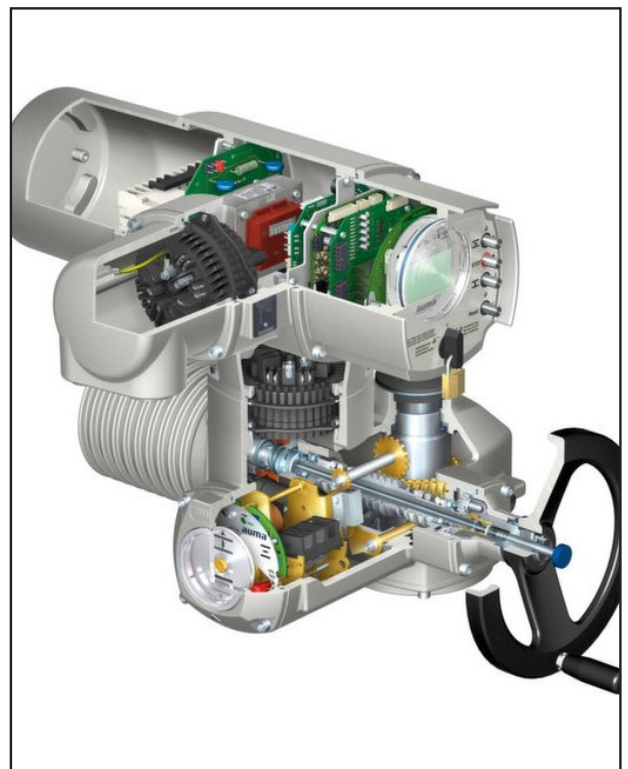
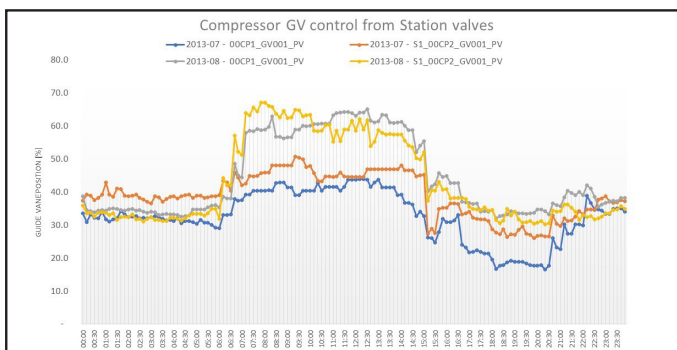
Cost:
R 11M



Payback:
<6 Months

Legacy compressed air systems in deep gold and platinum mines are highly inefficient and leaky due to their age. Blanket supply is delivered 24/7 to periodic drilling, loading and cleaning demand.

Large amounts of energy can be saved by profiling pressure demand upstream, especially during evening peak periods, according to specific demand patterns downstream. This minimises wastage by reducing flow to a leaky system.



For this project:

BBEnergy installed and upgraded 40 underground station valves in order to be controlled to follow specific pressure setpoints as well as a unique schedule for each valve based on mining days and activities.

Completed in 2015.