



## Advanced Reports Compressor Success Story



### Advanced Reports compressor success story

Recently, one of our customers provided an interesting anecdote on how the PowerLogic system helped them pre-empt a potentially significant energy waste at their plant.

This US based manufacturing facility uses PowerLogic® System Manager™ Professional Edition software with its PowerLogic® Advanced Reports. The reports are configured to automatically send a weekly report every Monday morning to the plant electrical engineering department. One Monday, the engineers noticed something unusual on the trend report that shows the kW trend of the main air compressors in the plant.

Normally, only one machine is running and the others work as trim machines and backups. One of the compressors was running in a normal loading and unloading pattern until Friday afternoon where all of a sudden, it stayed “pinned” at its fully loaded point. The problem would have remained undetected except that when the engineer looked at the kW trend on Monday, he immediately contacted his maintenance operations group.

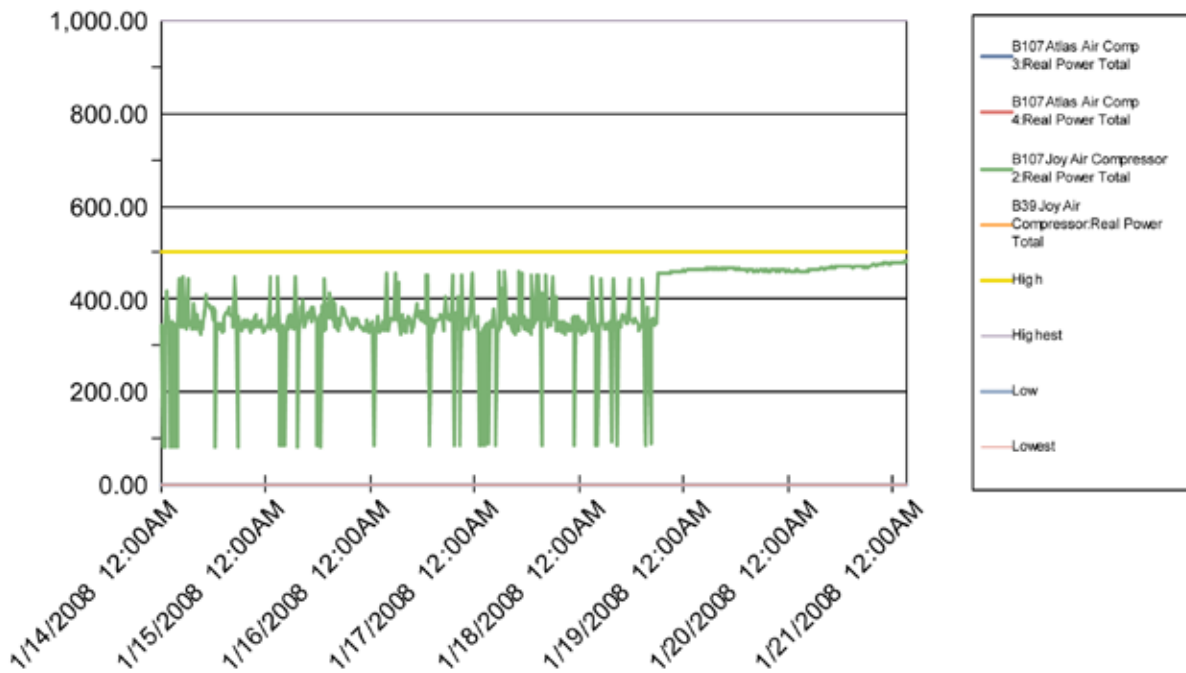
Initially, the technicians checked the compressor alarms but no alarms were present on the air compressor and everything appeared normal except for the PowerLogic® system readings showing the high kW. However, upon further investigation they found that the inlet vane actuator on the air compressor was “stuck” in the full open position which was causing the machine to always run at full load. This was about a 100 kW jump from the normal loading point.

The engineer was very pleased with the outcome, thanked the PowerLogic product team and stated “Who knows how long this extra energy might have been wasted if the weekly trend did not alert us to the fact that something was wrong.”



## Air Compressors Weekly kW Trend

Report Start Time: 1/14/2008 12:00:00AM  
 Report End Time: 1/21/2008 12:00:00AM  
 Report Generated On: 1/21/2008 8:01:10AM



If data is missing, the x-axis may vary.

### Statistical Summary

B107 Atlas Air Comp 3:Real Power Total						
Minimum	Date	Average	Maximum	Date	Std. Dev.	Load Factor
0.000	1/14/2008 12:00:00AM	0.000	0.000	1/14/2008 12:00:00AM	0.000	0.000
B107 Atlas Air Comp 4:Real Power Total						
Minimum	Date	Average	Maximum	Date	Std. Dev.	Load Factor
0.000	1/14/2008 12:00:00AM	0.000	0.000	1/14/2008 12:00:00AM	0.000	0.000
B107 Joy Air Compressor 2:Real Power Total						
Minimum	Date	Average	Maximum	Date	Std. Dev.	Load Factor
82.000	1/14/2008 12:15:00AM	381.300	481.000	1/20/2008 11:30:01PM	86.520	0.790

Powered By  
**PowerLogic**

Printed On: Monday, January 21, 2008 8:01:10AM



by Schneider Electric



*If data is missing, the x-axis may vary.*

### Statistical Summary

B39 Joy Air Compressor:Real Power Total						
Minimum	Date	Average	Maximum	Date	Std. Dev.	Load Factor
0.000	1/14/2008 12:00:00AM	0.000	0.000	1/14/2008 12:00:00AM	0.000	0.000

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