



Power Plant Position Feedback Cylinder Reduces Pollution 10% and Increases Efficiency 15%

Challenge:

A recycling facility uses the energy created from burning solid waste to heat a boiler, which in turn runs a turbine that generates electricity. To control the temperature, they were using two-position actuators that would open a damper all the way, or close it completely. Looking for a way to control the temperature and combustion process more effectively, they turned to Bimba.

Solution:

The facility installed Bimba PFCN cylinders and PCS controls to adjust the dampers in a test installation. Using the PCS controls and PFC cylinder for closed loop operation, the dampers could be opened to intermediate positions. This allowed them to accurately control the temperature, which enabled tighter control of the combustion process.

The test installation was monitored for over a year. In addition to better heat control, the Bimba closed loop pneumatic system reduced pollution by 10% and improved efficiency 15%. Impressed with the products' performance and durability, and pleased with their own process improvements, the facility expanded use to other plants.



Benefits:

- Accurate temperature control.
- Tighter control of combustion process.
- Reduces pollution 10% and improves efficiency 15%.

Other Applications:

- Diverting
- Position Control
- Packaging
- Throttle Control
- Web Tensioning
- Filling



Contact Bimba at [1-800-44-BIMBA](tel:1-800-44-BIMBA) or cs@bimba.com
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