

Safety Selector Valve Increases Power Plant Efficiency and Reduces Downtime

RESULTS

- Increased revenue by minimizing unscheduled plant shutdowns due to PRV maintenance
- Optimized plant efficiency and throughput

APPLICATION

Pressure Relief Valves

CUSTOMER

Geothermal power producer in Southeast Asia

CHALLENGE

Pressure relief valves installed on the super-heaters are sized to relieve 20% of the total boiler capacity to protect the tubes against overheating. However, unscheduled maintenance led to the loss of steam and unexpected plant shutdowns – resulting in high maintenance cost and the loss of revenue due to downtime.

SOLUTION

The Emerson team introduced the Anderson Greenwood™ Safety Selector Valve as an alternative offering to the existing installation method. It is engineered to mount two relief valves on a single vessel penetration to effectively “switch over” to the standby spare. It allows for continuous overpressure protection while never exceeding the recommended 3% non-recoverable pressure losses during the routine or emergency servicing of redundant PRVs with no process interruption.

RESOURCES

Anderson Greenwood SSV Brochure
Anderson Greenwood SSV Catalog



A geothermal power producer now uses the Safety Selector Valve to simply switch to a standby spare PRV to avoid unplanned downtime and increase efficiency.



Emerson Automation Solutions

Americas

T +1 800 558 5853
T +1 972 548 3574

 webadmin.regulators@emerson.com

 Emerson.com

Europe

T +39 051 419 0611

 [Facebook.com/EmersonAutomationSolutions](https://www.facebook.com/EmersonAutomationSolutions)

Asia Pacific

T +65 6777 8211

 [LinkedIn.com/company/emerson-automation-solutions](https://www.linkedin.com/company/emerson-automation-solutions)

 [Twitter.com/emr_automation](https://twitter.com/emr_automation)

Middle East / Africa

T +971 4811 8100