



HS ORKA- Case Study

HS Orka Manages 8% of Iceland's Power with PULSE Management & Control platform



Powering Iceland

The third largest power provider in Iceland, HS Orka, generates approximately 8% of the power in the entire country, and it does so geothermally. Its two geothermal power stations are based on deep drilling and reach about 2-3 kilometers deep in volcanic soil that is approximately 800 years old. High-pressure steam is obtained from the deep drillings which enables power generation and water supply for domestic heating.

Expanding Command and Control

From PCIM to PULSE SCADA/HMI, HS ORKA has relied on Afcon automation technology for over a quarter of a century. The operation started out small with only one power plant, but as PCIM enabled HS ORKA to easily manage its multiple systems, they soon expanded to an eight plant operation and upgraded to PULSE to combine all of the power plants into their single control site. By doing this, they were able to enlarge the system even more to add more equipment

Empowering Power Stations with PULSE

The PULSE™ system installed in the power stations is large and complex, as it includes 25,000 I/O channels and more than 145,000 data points distributed to over a dozen servers, and has several dozen client stations in the control room at each site. The application developed for HS Orka deploys more than 2,500 active operation and monitoring screens in both control rooms.



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Benefits

PULSE enables all of HS Orka's systems to be operated from a single application and provides valuable insights for performance optimization. By measuring the various parameters of electricity generated and water usage, PULSE provides real-time analysis and alerts for engineers, and operational and business insights for managers:

- Continuous process analysis & optimization
- Reporting
- Business insights

PULSE Management & Control platform boosted HS Orka efficiency by making it possible for power station to supply energy at any given moment with adjusted pricing for market shifts by integrating to billing and customer pricing IT systems

Contact Info

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