

IMPROVING THE EFFICIENCY OF A POWER STATION WITH A OSISOFT PI ENTERPRISE HISTORIAN

"If I had nine hours to chop down a tree, I'd spend the first six sharpening my axe" - Abraham Lincoln

Industry Energy **Sector**Gas Power Stations

SegmentBusiness Systems



Project

- A 388MW natural gas fired power station has been constructed in Tasmania to support Tasmania's hydro generation capability.
- The power station was constructed to diversify power generation and to ease the pressure on the state's hydroelectric dams, which are prone to drought conditions.
- As part of ongoing operational improvements, management identified the need to collate and centrally store data from disparate systems into an Enterprise Historian; this way, the data could be evaluated and used for operational intelligence and data-driven decision making. This would support the optimisation of the asset, aid compliance and reporting.
- OSIsoft PI was selected as the Historian platform and the management team recognised they needed a partner who was fluent in the implementation of OSIsoft PI but also possess a wide ranging OT capability.

Solution

Cromarty Automation was engaged to work collaboratively with the client to:

- Develop a scope to identify business requirements for the Historian.
- Specify, install, and configure data collection interfaces to collect data from multiple data sources.
- Implement the OSIsoft PI Enterprise Historian to collect and store data

Once deployed Cromarty Automation:

- Developed an SQL reporting utility to automatically identify engine run events and calculate engine efficiency based on average exhaust temperatures when compared to a profile.
- Provided run hours and number of operations reports for equipment in the maintenance system.
- Provided ongoing OSIsoft PI upgrades, maintenance, and support of the system.
- Provided monthly system auditing and reporting.



Outcome