

Instrowest was established in 2006 to provide quality instrument and electrical contracting services to the mining and mineral processing industries, with a strong focus upon safety. Instrowest can provide a comprehensive installation, maintenance, calibration, and repair service to all sites within Western Australia. Instrowest can also help in solving any instrument or control related problem that you may be facing.

At Instrowest we are committed to providing reliable, high quality sales and service while maintaining respect, integrity and trust to our clients and those within our organisation. We aim to provide this service by understanding our client's needs, wants and constraints while finding a solution that is fit for purpose.

At Instrowest we will always maintain an innovative approach that sets us apart from others; if a traditional method is not suitable or ineffective, we will endeavor to find an alternative or innovative approach to achieve our client's goals.

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## UGL – Kwinana Power Station HEGT Instrumentation Calibrations

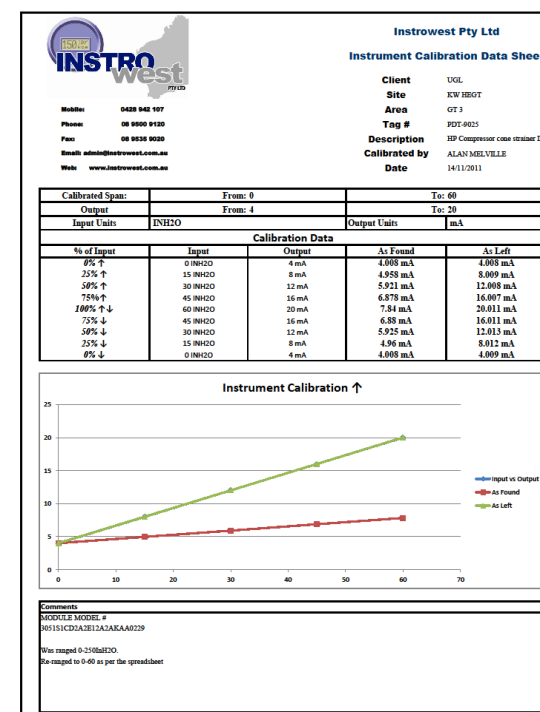
In November of 2011, Instrowest was approached by UGL to calibrate the instrumentation on two new GE LMS100 High Efficiency Gas Turbines (HEGT's) being installed at Verve's Kwinana Power Station. These units came as completed vendor packages shipped from GE overseas, and the majority of instruments did not have any form of calibration certificate or verification from the factory. As this was a requirement by Verve for UGL to be able to hand the project over, and with their completion deadline looming, UGL were in need of a third party to verify the accuracy of instruments at short notice and in the shortest time possible.

Well aware of the importance of this task and UGL's requirement to meeting their construction deadlines, Instrowest assembled a crew with both instrumentation and commissioning experience and mobilized to site within the shortest time possible. Upon arrival, our team immediately began to liaise with the engineering team and other contractors to begin work while causing the least amount of disruption to construction activities already underway.

Instrowest Technicians found several issues during our calibration and commissioning work that also had to be rectified. This included instruments with incorrect ranges, incorrect wiring and leaking tapping points and process connections, all of which were rectified.



Instrowest Technicians worked hard to ensure the deadline was met. All instrumentation was tested to full scale at 25% increments and the findings recorded on our electronic calibration sheets. Instrowest managed to calibrate all 268 instruments within seven days - five days ahead of schedule and a great result for UGL, GE and Instrowest.



## Results

Through efficient management and hard work from a dedicated crew of Instrument technicians, we were able to calibrate and verify the accuracy of 268 instruments on these two Gas Turbine Generators in seven days. This was far less than the originally estimated twelve days, and considering this included testing all transmitters to full scale, and rectifying a lot of issues, it was a great result.

This resulted in minimal disruption to UGL's construction activities and UGL could proceed to live commissioning of the turbines with complete confidence that there would be no issues with the instrumentation. With deadline breaches attracting large fines from the end client, UGL, GE and Instrowest were very pleased with the end result.

Ben Garza, Field Service Representative for GE Energy left the following comment on our Facebook page following the job:  
*"Alf it was great working with you and the team. A very professional team"*



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Or on our website: [www.instrowest.com.au](http://www.instrowest.com.au)

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