



DID YOU KNOW

IRL has helped make some of New Zealand's largest and most energy intensive industries more efficient and provide an economic benefit by improving the accuracy of temperature measurements used for plant process control.

Optimising the temperature of furnaces improves processing efficiency and extends the lifetime of industrial materials. However, inaccurate readings in high temperature processing plants had been an extensive industry problem.

Research conducted by IRL's Measurement Standards Laboratory enabled scientists and engineers to gain a better understanding of why errors in temperature readings occurred and come up with innovative correction methods and new measurement techniques.



WHAT DOES THIS MEAN?

Thanks to IRL's work, understanding of the use of radiation thermometry in industries including steel, petrochemical, aluminium,



ceramics and power generation has greatly improved.

As a result, productivity at New Zealand plants has significantly increased, and millions of dollars have been saved through the reduction of costly shutdowns required when furnace parts have to be replaced.

IRL's measurement expertise is available to New Zealand industry to help identify areas for improvement and cost savings.