



# Gas Engine Control Solutions

Increasing asset visibility,  
increasing revenue



Unlock the Power...

# Take Control

**Break the chains to your OEM supplier and release the potential of your asset.**

**Applied Power Engineering** work closely with customers, providing Generator & CHP Engine Control Systems and Switchboards, giving their clients the freedom to take control of their own Power Generation assets.

Whatever Generator / Engine you choose...



Whichever Gas you use...



**Applied Power Engineering** offer control and power Solutions to meet your individual requirements.



2 x Jenbacher 616 gas generators



Jenbacher 616 natural gas panel replacement



Gas engine control system

## Gas Applications

**Do you have limited access to your gas engine or CHP? Does your OEM system limit local and remote control, limit access to YOUR system data for reports and fault diagnostics?**

APE have been replacing OEM & third party gas engine controls for more than 12 years, our solutions provide operator adjustment, diagnostic pages and are complimented with local colour operator screens, supported with software packages for remote interrogation.

We offer solutions for Landfill gas, Sewage, Anaerobic Digester CHP's, Natural gas, Synthetic gas applications for generation and Combined Heat & Power (CHP).

Applications for Cummins QSV81 & 91, Jenbacher 208 to 620 series, CAT 3400 & 3500 series, Perkins 4000 series, MAN, Mercedes, Deutz, Waukesha, Crossley.

## Benefits

- Standard and site specific functions with specific set points that can be adjusted locally or remotely
- Full access to the functionality of your gas engine or CHP
- Options of Air Fuel Ratio solutions for lean burn, turbo, none turbo and stoichiometric engines
- Air Fuel Ratio offered in a number of forms; our standard solutions are based on Lambda and Manifold Pressure control
- Option to control Air Fuel Ratio based on cylinder temperature
- Solutions for Cummins & Jenbacher gas engines with single or dual throttle control, gas mixer control & turbo bypass control loops
- Integral PLC logic, site specific pump and three port valve control (using PID control loops)
- For CHP: expandable monitoring of sensors within the installation, site specific alarm set points

Completed AFR retrofit; Natural gas, Animal feed mill

CAT 3516 AFR retrofit, Landfill



All-In-One AFR Controller

## Air Fuel Ratio (AFR) Solutions

**APE are authorised solution providers for Motortech AFR and gas engine related products, including their All In One (AIO) control system, ignition and knock detection modules, with over 250 gas engines in service using products from ComAp, Motortech, Heinzmann, Woodward and Altronic equipment.**

We aim to provide a gas engine solution tailored for the best fit to the customers' technical needs.



### **novera energy**

*"As a Landfill Gas operator we require a control system to provide a complete solution to satisfy all our units regardless of the Prime Mover, our gen-sets are powered by CAT, Deutz, Jenbacher. In partnership with ComAp Systems UK (APE, editor's note) and their experienced team of site engineers we have provided retrofit controls to our fleet of engines, this included the Air Fuel Ratio system which has demonstrated its flexibility to operate with our engine fleet."*

**Robert Tomlins** Novera Energy



08456 52 54 54

sales@apeltd.com | www.apeltd.com

5b Innovation Way, Adwick Park,  
Manvers, South Yorkshire, S63 5AB

