

## J8 cylinder Perkins® 4008 range is a popular choice for gensets

OEM Simpson Power Equipment has supplied a generator set powered by a UK-made Perkins® 4008-30TAG3 engine for standby power for the Yanload River Bay real estate project.

The versatile 8 cylinder Perkins® 4008 range is a popular choice for OEMs. "Featuring exceptional power-to-weight ratios, these engines deliver 844 to 1,250 kVA (555-1,000 kW). Their compact design makes these engines simple to install and transport. They are supplied with or without radiator and air cleaner," comments

Perkins Asia sales director Tommy Quan who joins a team from Perkins distributor Elco on a recent visit to the Yanload River Bay project. [www.perkins.com](http://www.perkins.com)



## New high-torque Xcel Series hydraulic motors now available from Eaton

Eaton has added two new options to its Xcel Series portfolio of low-speed, high-torque hydraulic motors.

The new XL4 motors are available in six displacements between 160 and 495 cc/rev and offer output torques of 10,470 in. lb. (1185 Nm) at flows up to 40 gpm at speeds up to 868 rpm.

The XL6 motors are offered in eight displacements from 195 to 985 cc/rev, with output torques as high as 16,800 in. lb. (1898 Nm) at speeds of 866 rpm. Flows range from 40 gpm (XL4) to 60 gpm (XL6) at intermittent pressures up to 4500 psi.

Incorporating Eaton's Geroler design, the Xcel motors use an internal three-zone architecture for high, low and case pressure dampens pressure spikes in both directions, which helps deliver lower operating temperatures, extended shaft seal life and improved overall reliability, Eaton reports. Eaton's XL4 motor. "Competitive motors are

are often designed with two zones and no case drain," said Mandeel Liberty, product manager, Geroler Motors, Hydraulics Group, Eaton.

"This makes them vulnerable to motor damage and premature failure. The three-zone architecture of Eaton's Xcel motors dampens pressure spikes in both directions, extends shaft seal life and enhances overall reliability."

The Xcel motors also include a tapered bearing set designed to support high side loads, along with a rear disc valve to help maintain high efficiency at high pressures and high torque conditions.

The motors also offer the most frequently used options for shafts, ports, mounts and displacements to simplify and shorten the design process, Eaton said.

[www.eaton.com](http://www.eaton.com)



## WM15 Power Analyser for measurement and analysis



Detecting Controls and Automation specialist, Carlo Gavazzi has extended their product offering by launching the WM15, a 96x96 panel mount power analyser for three phase systems (MID versions available) which can be installed into any switchboard to manage and control energy consumption, main electrical variables and harmonic distortion.

The WM15 is easy-to-install due to the intuitive setup and navigation whilst the wizard and wiring check on first startup provides a quick, guided and error free installation and commissioning via the free UCS software. This new 3 phase power analyser is particularly suited to the measurement of main electrical variables, voltage, current harmonic distortions, measures active and reactive energy, apparent energy and load operating hours.

All measurements are displayed on the easy to read backlit matrix LCD display in both digits and bar graph format. Its front panel uses a simplified 4 push button user interface for easier switching between pages, and fast scrolling through the readout.

Providing error proof installation by using self-power supply and phase sequence detection the WM15 offers various interfacing capabilities such as digital output for pulse transmission or alarm, optional RS485 Modbus RTU (100ms data refresh) and continuous sampling of each voltage and current.

The onboard optical port provides fast, easy and remote programming for mass production of electrical panels via the Optoprog battery powered device. The embedded Bluetooth 4.0 communication allows the user to connect a Smartphone (via UCS Mobile Android APP) or a PC (via UCS Desktop software) to the meter, allowing fast and easy configuration.

The WM15 is the perfect solution for Building and Industrial automation, cost allocation, MID fiscal metering applications and anywhere where energy and main electrical variable monitoring is required. Together with the UWP web-based solution, data can be managed by a complete energy management solution for both single or multi-site applications.

As with other Carlo Gavazzi energy products the WM15 power analyser conforms to the EU Measuring Instruments Directive (MID); it also meets Class I European accuracy standards EN62053-21, EN 62053-23 and EN50470-3 (Class B), CE and eUL certified.

[www.carlogavazzi.co.uk](http://www.carlogavazzi.co.uk)



## New interchangeable vertical pump system supplied for Sizewell B Power Station by specialist company Amarith



Amarinth, a leading company specialising in the design, application and manufacture of centrifugal pumps and associated equipment has supplied EDF with a fully interchangeable vertical pump to replace an obsolete Goodwin ATEX unit at the Sizewell B Power Station.

A subsurface wastewater management pump supplied by Goodwin in an ATEX Zone 1 tank was commissioned at the Sizewell B site some 25 years ago and so was coming to the end of its natural working life. However, these pumps are now obsolete, so a direct replacement was no longer available, meaning engineers had to find a new solution to maintain operations.

EDF required a pump that would perform the same duty as the Goodwin pump with minimal modification to pipework and fittings and that could

be supplied on a 20-week deadline to fit around a planned shutdown window.

Replacement of obsolete equipment in power stations to maintain operations has become a major issue for the power generation companies and so Roll-Royce has created the Proactive Obsolescence Management System (POMS) to quickly identify equipment suppliers that can provide replacement solutions for the obsolete equipment.

Amarinth proposed a bespoke vertical sump pump as the most cost-effective solution to replace the Goodwin subsurface pump. The company leveraged its unique modular design suite for vertical pumps which it has configured to handle over 100,000 pump variants.

All assemblies and sub-assemblies have been checked against mating parts for clashes using computer-aided design tools ensuring that any variant assembled from the modules fits together perfectly. Amarith quickly produced a new ATEX certified 1.3m vertical sump pump design, manufactured in stainless steel, that was dimensionally and hydraulically interchangeable with the Goodwin unit.

The new ATEX compliant vertical pump was designed, manufactured, tested and supplied to site all within the necessary 20 weeks enabling EDF to fit the new pump during the scheduled shutdown period. This pump will now deliver another 25-year working life at Sizewell B with the support and supply of spare and replacement parts directly from Amarith.

[www.amarith.com](http://www.amarith.com)