

**beamex**



**BEAMEX CASE STORY**

# WHITETOWER ENERGY **SECURE RELIABLE, STABLE POWER GENERATION**

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# SCALABLE CALIBRATION SOLUTION HELPS SECURE RELIABLE, STABLE POWER GENERATION FOR THE UK GRID

Whitewater Energy's team of field technicians rely on the Beamex calibration ecosystem to perform and manage calibration work across seven power plants around the UK. With technicians often working alone and between multiple sites, their Beamex hardware and software helps them execute jobs, manage data, and share information quickly and easily.

Whitewater Energy is a small but vital part of the UK's domestic power generation market. Its seven flexible gas-powered plants supply peaking power to balance the grid. The Peterborough plant, with a generation capacity of 293 MW, is home to the company's central control room, from where all its UK sites are monitored. Whitewater Energy's plants together contribute over 600 MW of power generation capacity to the UK grid.

A team of four regional Electrical, Control, and Instrumentation (EC&I) Technicians keeps these vital energy infrastructure assets working safely and reliably around the clock. Lee Sigsworth, EC&I Technician for Northern England, takes care of the Viking Plant in Stockton-on-Tees and Thornhill Power Station in Dewsbury.

"As well as calibrating transmitters, switches, and indicators at the plants, our team handles reactive maintenance, safety

and compliance-related tasks, breakdown response, and engineering work for new installations," Lee explains. "We primarily work remotely across the sites we're responsible for, partnering with trusted third-party contractors when needed."

## BRINGING VITAL CALIBRATION WORK IN HOUSE

The EC&I team handles around 1,400 calibration work orders a year across seven plants using the Beamex ecosystem. Today, each technician is equipped with a Beamex MC6 Advanced Field Calibrator and Communicator and a mobile device that connects to the cloud-based Beamex LOGiCAL Calibration Management Software.

"Several of our team members had worked with Beamex hardware in previous roles, so we knew what the solutions are capable of and how much easier and more efficient they make the work," Lee says. "When we started to look for a new solution for in-house calibrations, it just made sense to go to Beamex first – plus, the third-party company we use for annual outages was already using Beamex software," he continues.

The team at Whitewater started out with a single MC6 unit, which was passed around between the technicians as needed.





It soon became obvious that if each technician had their own equipment the calibration work would be much quicker and more straightforward.

“Before we came onboard with the Beamex ecosystem, we had no access or control over our own instrument database,” Lee explains. “After a calibration was done by the service company, we’d receive a certificate and that was it. With LOGiCAL we have full control over all our calibration data and can manage everything ourselves.”

“When we initially discussed Whitetower Energy’s requirements, it quickly became apparent that LOGiCAL was the perfect fit for them,” says Aidan Farrelly, Regional Sales Manager at Beamex. “The software allows them to scale up their usage over time, adding new instruments as needed, and to manage their external vendors effectively.”

## PAPERLESS CALIBRATION PLUS SEAMLESS DATA SHARING

LOGiCAL puts easily scalable calibration management in the hands of Whitetower’s technicians, providing a cost-effective way to manage the instrumentation assets they are responsible for. Technicians know what, when, and how to calibrate and can complete their work efficiently without Excel sheets or manual data recording.

Combined with their MC6 calibrators, this gives them everything they need in the field to do their work and share information with whoever needs it.

“The Beamex calibration ecosystem is just so easy to use,” Lee points out. “With the MC6 we can do temperature, pressure, and frequency calibrations all with a single unit. The calibrator guides you through the whole process right down to reminding you what cable to connect to which port, and once you’re done it syncs up with LOGiCAL, and everything is safely stored.”

Lee and his colleagues have also made use of the vast knowledge base available on Beamex’s YouTube channel, which includes a wide range of helpful how-to videos and other guides. These resources have even been used to help onboard new team members with the Beamex hardware and software.

The Beamex ecosystem also makes sharing calibration data far easier. Technicians can access the database from anywhere, check calibration records, and call up a full history for any device. When working with external parties, they can be given read-only access to the data they need to perform their work, so they arrive on site properly prepared and can work more efficiently.

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*EC&I Technician for Northern England, Whitetower Energy*

## NO CRACKING UNDER PRESSURE

A great deal of the calibrations that Lee and his colleagues perform involve pressure, with the instruments they calibrate having to comply with the Health and Safety Executive’s Pressure Systems Safety Regulations (PSSR). The team uses a variety of Beamex manual calibration pumps to generate pressure, but the ace in their hand is the Beamex ePG Electric Pressure Pump and Controller.

The Beamex ePG is a portable, battery-operated electric pressure pump and controller for industrial pressure calibrations applications in ranges from -0.85 to 20 bar (-12.4 to 300 psi). It provides an effortless way to generate pressure or a vacuum and can be used together with any pressure calibrator.

“Like all our other Beamex hardware, you just set the ePG up and let it get on with its job,” Lee says. “There’s no need for tiring manual pumping, and it’s handy for doing things like loop checks. I’m usually working alone, so with the ePG I can go away and check the data on an HMI screen somewhere else in the plant and leave the pump to maintain the correct pressure without worrying.”

This kind of reliable performance is vital in an industry where an out-of-compliance instrument or failed piece of equipment can result in massive financial losses from plant downtime.

## Whitetower Energy

### CALIBRATION SOLUTIONS

- Beamex LOGiCAL Calibration Management Software
- 4 × Beamex MC6 Advanced Field Calibrator and Communicator
- 3 × Beamex ePG Electric Pressure Pump and Controller
- 6 × Beamex PGHH Calibration Pump
- 1 × Beamex PGC Calibration Pump
- 1 × Beamex PGM Calibration Pump
- 1 × Beamex PGC Calibration Pump
- 1 × Beamex FB150 Field Temperature Dry Block
- Beamex Care Plan covering the MC6 calibrators

### MAIN BENEFITS

- **Scalability:** Beamex LOGiCAL Calibration Management Software scales with the customer's needs and is easy to deploy.
- **Simplicity and efficiency:** Performing calibrations is quick and easy for a single technician working alone in the field.
- **Practicality:** Accurate pressure calibrations can be performed with less manual effort using the Beamex ePG.
- **Peace of mind:** A Beamex Care Plan covers all repairs and recalibrations and includes automatic reminders to ensure all units remain accurate and in perfect working order.

### HOLISTIC AFTER-SALES CARE REDUCES STRESS AND EFFORT

Whitetower benefits from the added peace of mind of a Beamex Care Plan for all four Beamex MC6 units. The plan covers annual recalibrations, repairs, and much more, and Lee is well aware of the value this brings.

"We never have to worry about remembering when the units need recalibrating because Beamex contacts us well in advance to remind us," he says. "When we send a unit off, they don't simply calibrate it and send it back – they take care of any small repairs or adjustments too, so it's like a full health check for our equipment. On top of that, we get 100% cost predictability. We know year in, year out what the cost is, and we don't need to waste time raising additional purchase orders for small repairs or other work on the units, which reduces stress and effort for us."

The ability to provide feedback on their Beamex solutions and see changes as a result is another aspect of the relationship that Lee values highly. "We had heard about the ability to perform a mass checkout of instruments in Beamex CMX Calibration Management Software, which saves a lot of time," Lee explains. "We discussed this functionality with Beamex, and they were able to add it to LOGiCAL for us. It's a great example of how Beamex listens to their customers and updates their solutions in line with their needs."

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### FOR MORE INFORMATION

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