

About Us

Calibrate Energy Engineering design, install and maintain commercial energy transformation solutions. Our aim is to reduce our client's operational expenditure, provide an additional income stream and create a positive impact on their carbon profile.

We do this by re-thinking and re-shaping how energy is more economically used and consumed -

Making Net Zero a Reality.

Products and Services

Ground Source Heat Pump (GSHP)

We install between 499kW and 6MW UK-wide and pride ourselves on our bespoke, innovative, modularised and 'hands off' solution.

Combined Heat & Power (CHP)

With output ranging from 50kW to 2.5MW, the Calibrate CHP can run on gas, LPG, CNG or hydrogen and produces electricity and heat up to 85°C.

Calibrate Analytics

Our Calibrate Analyser will assess your energy use and identify how to improve your energy use.

Gridflex

Our energy balancing service allows customers to profit by matching their energy generation and use to the needs of the National Grid.

Maintenance

All our products come with the option of up to a 20 years' maintenance package for continued support and peace of mind.

Key Industries

The systems we install are industrial in size and commercial in scope and we have gone the length and breadth of the UK to do this.

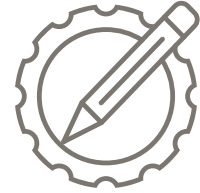
They are ideally suited to high energy-use industries such as:

- **Construction & Property**
- **Manufacturing & Processing**
- **Healthcare & Education**
- **Food & Drink**
- **Tourism & Leisure**



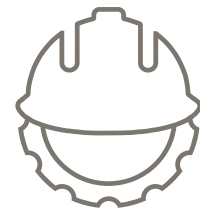
Calibrate

Energy Engineering



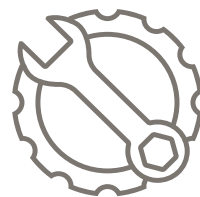
Design

We design a system around your business, not the other way around, providing you with full remote access.



Install

We ensure that all Calibrate systems are installed on-time and with least disruption to your business.



Maintain

Our systems come with the option of a 20-year warranty ensuring you have peace of mind at all times.

Contact:

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Calibrate
Energy Ltd



Calibrate Energy
Engineering



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How Do We Do This?

Energy Transformation Plan

How to make energy work for your business

Stage 1



ANALYSE | Take Control

Innovative energy assessment to identify energy behaviours in your business and how they can be improved

- ▶ Bespoke software platform
- ▶ Real time, fully adjustable control of power generation and use
- ▶ Control everything from heating through to lights
- ▶ Simulate the benefits of power generation or power savings
- ▶ Track, & monitor everything from your phone or laptop.

Stage 2



OPTIMISE | Re-Calibrate

Install new carbon-reducing technologies or adjust and engineer improvements to existing assets to optimise performance

- ▶ Automate and control your energy-hungry equipment correctly
- ▶ Fine tune processes in real time from your phone
- ▶ Improve mechanical and electrical system with our in-house commercial and industrial renewables specialists
- ▶ Hands-off Maintenance Package for peace of mind.

Stage 3



CAPITALISE | Trade Energy

Grid balancing for extra income, similar to an energy stock exchange

- ▶ Turn off heat pump at set times and receive ££ from the National Grid
- ▶ Turn up heat pump when there is too much electricity available at the Grid and receive ££ to use cheap power
- ▶ Trade carbon credits
- ▶ Balance onsite usage to match power generation, avoiding import costs
- ▶ Digital real time dashboard to evidence power income.

Energy Transformation in Action

Calibrate analysed energy use and optimised systems for one client so they could capitalise on the improvements.

- Saving £117,000 p/a on electricity
- Reducing carbon emissions by 136 tonnes CO₂ per year
- Increasing efficiency of heat pump to Ofgem RHI standards to maintain income

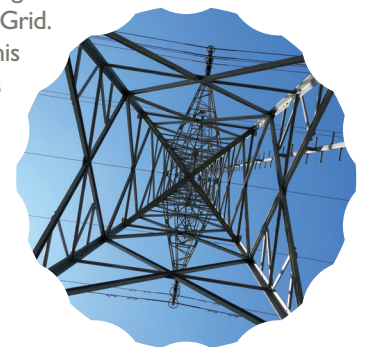
With prices rising steeply, Calibrate helped a client save £117,000 per year on energy, as they saw energy bills double from £220,000 to £440,000 per annum. By re-engineering their older system, Calibrate transformed the business's energy profile, reducing carbon as well as costs.

Analyse | By attaching the the Calibrate Analytics® controller to the site's existing technology (an older heat pump installed by another provider) we demonstrated in real time, what some simple changes would make to the business's bottom line, surpassing all expectations for the system. With the data gathered from the controller, the team set about designing a series of improvements to optimise performance and the outcome was significant.

Optimise | By re-working some inefficient settings and implementing some re-works to the heating loop, the heat pump's co-efficiency of performance (COP) doubled, rising above the standards expected by Ofgem, meaning the client's RHI rebate was no longer threatened and overall performance improved upon.

Capitalise | Following this sort of project, and with a software upgrade, the next stage that the client can consider is Calibrate's **Gridflex** service. This is where the controller acts as an energy aggregator, adjusting electricity use at peak times and selling excess energy back to the National Grid.

Gridflex fully manages this behaviour, providing clients with a totally hands-free passive income running in parallel to business-as-usual and making energy work for your business's bottomline.



In partnership with



Accredited Installer

Making Net Zero a Reality

Get in touch for further information.

*All formulas and calculations are derived from industry suppliers and MCS guidelines, it is advisable to have the calculations and formulas checked by a certified mechanical engineer, and as such, Calibrate Inc. Ltd (Company # 08277206) will not be held liable for any incorrect formulas or calculations or any accidental misrepresentation.