

CASE STUDY

FARNBOROUGH AIRPORT



From 2009 - 2018 Nationwide Utilities helped Farnborough Airport reach net zero.

OUR CLIENT

Farnborough Airport is the largest private business aviation airport in the UK and the most modern of its kind.



They have a keen focus on sustainability with goals to reduce carbon emissions across the site. This culminated in reaching the status of the first business aviation airport in the world to achieve carbon neutral status.

OUR CHALLENGE

The airport had been facing numerous utility challenges and Nationwide Utilities were tasked with providing support and guidance in **procurement, consumption and carbon reporting, utility metering and EV charging.**

Consumption and Carbon Reporting

They wanted to better understand their electricity, gas and water usage to reduce consumption and have data for compliance purposes.

Procurement

The client wanted to ensure utility costs were kept as low as possible whilst also utilising renewable energy supplies to achieve their carbon reduction goals. They had traditionally opted for long-term fixed rate contracts.

Utility Metering

They were having issues with their water metering with leaks onsite causing excessive bills that needed resolving.

EV Charging

There had been issues with their EV charging infrastructure. The charging units were only 5 years old but were very unreliable, slow to charge and the reporting platform wasn't functioning. They had been receiving inadequate support from their existing service provider to resolve the issues.

OUR APPROACH

- **Carbon Reduction Strategy** - we audited the business and implemented a strategy to support the clients goals.
- **Procurement** - we audited and provided a full impartial tender of all site utility supply contracts and negotiated the best terms available from our network of accredited suppliers. We ensured energy supply contracts were fully certified from renewable origins with carbon offsetting for existing non-renewable supplies.
- **EV Charging** - we assessed existing and future EV charging requirements; including the number of chargers at each site, available supply capacity, outputs and charging speeds. We then conducted a competitive tender exercise with multiple providers and project managed infrastructure upgrade.
- **Solar PV** - we carried out a feasibility study and project managed the installation of solar PV panels.
- **Data Collection and Consumption Reports** - we arranged the installation of automated meter readers for all site utilities with data collection, aggregation and meter operation agreements. Providing monthly utility consumption reports for gas, electricity, water and carbon.
- **Compliance** - we advised on regulatory compliance such as ESOS and SECR.

£1.7m

**Procurement
saving**

£17,000

**in pre-existing
supplier refunds**

2,000,000

**kg/year
reduction in carbon**

£14,000

**OLEV
Grant savings**

£100,000

**saved on EV
Charging**

THE RESULT

- Delivered significant savings through a £1.7M flexible electricity procurement framework to benefit from energy market volatility
- Saved over £17,000 through refunds from a supplier for an out of contract meter secured with another consultant
- Offered savings of over £30,000 per annum on a gas supply contract renewal
- Achieved carbon reduction of 2,000,000kg/year CO₂e from electricity consumption through REGO certified renewable supplies when compared with fossil fuels
- Advised on RGGO biomethane gas supplies to cut carbon emissions further
- Successfully tendered out EV charging infrastructure upgrade to multiple providers and achieved savings of over £100,000 off the cost of hardware and maintenance
- Suggested the OLEV Workplace Charging Grant scheme to save £14,000 off the cost of electric vehicle charging infrastructure installation
- Advised on installation of OCPP compliant EV charging solutions