



## CASE STUDY NEWMARKET HOUSE

### PROJECT

Newmarket House (Refuse and Street Cleansing Services)

### VALUE

£1.2 million

### SERVICES

Mechanical, Electrical & Public Health Design and Build

### CLIENT

Leeds City Council

### CONTRACTOR

Kier

### DURATION

7 months

### G&H DIVISIONS

Building Services



### ULTRA-MODERN

green factory for new department

### 42 ELECTRIC

vehicle charging points installed

### 166 SOLAR

panels installed

### VEHICLE BAYS

can be converted to electric, biofuel & hydrogen

### 128 TONNES

reduction of CO2 each year

### 63KW PER HOUR

generated

Newmarket House is the new, purpose-built green headquarters of Leeds City Council's Refuse and Street Cleansing Services – the second largest local authority run waste service in the UK.

Uniting refuse services – including 130 vehicles and frontline staff – under one roof, the state-of-the-art facility is an exemplar project of sustainability, evidenced by it producing more energy than it uses in summer months.

G&H Building Services played a central role in the design and installation of an array of energy efficient mechanical and electrical features for a large facility that is in constant use.

Central to this approach was the creation of a range of green fuelling options for vehicles.

A total of 20 electric charging points were installed for refuse wagons and a further 22 for the fleet of vans.

G&H Building Services' Design department also futureproofed the facility allowing it to adapt to new technologies when needed by providing the option to convert all bays to electric, biofuel or hydrogen fuelling.

A large solar array sees 82 panels installed to the depot's roof and 84 panels fitted to the car port.



The solar panels will generate over 63kW per hour allowing the local authority to export surplus energy back to the grid during the hottest periods of the year.

G&H's mechanical, electrical and public health (MEP) work maintained a sustainable approach throughout with high efficiency LED lighting installed which also include daylight saving controls.

External lighting was designed with energy efficiency in mind too by linking to clocks and photocells while a large mechanical heat recovery ventilation systems services all office areas.

Pre-construction Director at G&H Building Services, David Davis, said: "Sustainability was the central feature throughout this project in order to support Leeds City Council in its bid to tackle the climate change emergency.

"Newmarket House will be a heavily-used facility from staffing and large vehicle perspectives.

"To offset this potentially high carbon footprint we designed MEP systems internally and externally to not only save energy but actually produce a surplus in summer that can be exported back to the grid."

G&H Building Services' work also saw data systems, fire alarm system with automatic opening ventilation, disabled refuge, power for all mechanical services, domestic cold water, point of use water heaters, extraction, compressed air systems to workshops and installed.

The final result has helped Kier win numerous awards with the new purpose-built green facility seeing the council's Refuse and Street Cleansing Services reduce its carbon footprint by 128 tonnes of CO2 each year and supports Leeds City Council's commitment to be carbon neutral by 2030.



## TESTIMONIAL

“A big thank you to G&H Group for all the help, collaborative approach and hard work making this a successful project. Your approach assisting us and Leeds City Council in making it a sustainable project during and upon completion was greatly appreciated.

Your fantastic attitude to making a difference in the community has helped us leave a lasting legacy in Leeds – we look forward to working with you again.

Steven Fry, Project Manager, Kier Construction