



**TIME SAVED,
COSTS CUT,
QUALITY INCREASED**



G&H CONTENTS

FABRICATION

5

INTRODUCING
G&H FABRICATION

6

SERVICES PROVIDED

7

OUR APPROACH

8

THE BENEFITS

10

SECTORS AND CLIENTS

11

OUR PEOPLE

12

CASE STUDY
DON VALLEY
ACADEMY

14

CASE STUDY
SELBY: CHP ENERGY
GENERATION STOR



INTRODUCING G&H FABRICATION



James Sherburn
Manager
G&H Fabrication

The need for construction projects to be completed on time and on budget in the most efficient way is more crucial than ever.

As such, we provide specialist fabrication of all mechanical and electrical building services equipment and materials.

This ensures quality is improved; time is saved; costs are cut; productivity increases; bespoke designs are created; safety improved; more space is freed on-site; and, the environmental impact is reduced.

Our BIM-led operations are run from a purpose-built, controlled facility - the perfect environment for us to design, create and test tailor-made products before distributing them directly to site for installation.

G&H Fabrication is part of the G&H Group – a £25m specialist mechanical and electrical company that also comprises of Building Services, Sustainability and Maintenance divisions.

Working closely with the Building Services and Sustainability divisions in particular, we provide bespoke services for their schemes and also work independently for our own direct clients.

We continue to grow at pace and our approach is to reinforce relationships with established clients and build enduring new ones with like-minded businesses in our key markets across the UK.

SERVICES PROVIDED

To influence and shape the project, add our expertise and deliver all the benefits of prefabrication, our involvement starts at the design stage.

Our in-house design team provides working drawings of all required works.

From this our designers can identify where value can be added.

For example, by reducing pipework, streamlining the assembly process and ensuring all parts are sized correctly.

Our bespoke work sees us deliver an array of fabricated pipework from simple flanged lengths to 18" stainless steel flue pieces, large skid-mounted plant rooms and components for industrial-scale energy generation facilities.

Once designed, manufactured, tested and approved, we deliver, install and connect on-site.



OUR APPROACH

All work is overseen by G&H Fabrication's management team that liaises closely with designers, engineers and welders to guide and examine every element of the fabrication process.

The prefabrication is carried out in our purpose built facility by our highly trained, skilled and experienced team, all of who are coded in a range of materials including stainless steel, carbon and duplex and all structural grades.

Prototyping, thorough checking, non-destructive testing and re-testing is carried out before the assembly process begins.

All work is subject to the highest level of scrutiny before any components leave our premises, guaranteeing quality assurance.

We then deliver to site at the most convenient time for the contractor.

This results in:

- 1) A superior finish
- 2) Quicker connections on-site
- 3) Zero defects at installation



THE BENEFITS

35%

Build cost savings

40%

saving on labour costs

90%

reduction in the time taken to install following delivery to site



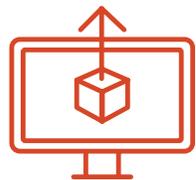
Early installation before structures are put in place negates on-site obstacles



Reduces reliance on external suppliers, giving greater control and accuracy



Reduces hot works, welding and heavy overhead lifting in reduced spaces on-site



BIM-led designs ensure all fabricated parts are manufactured to exact dimensions



Greater control and cleaner delivery



Guaranteed quality assurance with any amendments and re-testing carried out before delivery



Reduces on-site congestion, freeing space for other trades



Equipment is delivered when needed therefore reducing disruption on-site



Fewer transport deliveries considerably lowers a scheme's environmental impact

SECTORS AND CLIENTS



EDUCATION

Don Valley Academy
Calderdale College
Crookesmoor College
University of Cambridge
University of Reading

POWER GENERATION

Selby Power
Pontyclun Power
Red lake Power
Merseyside Power
Wolverhampton Power
Leeds Combined Courts (Tri-generation)

HEALTHCARE

Watford General Hospital
Macclesfield District General Hospital
Royal Stoke University Hospital
Clatterbridge Cancer Centre
Arrowe Park Hospital

FMCG

Coca-Cola

INDUSTRIAL

Waggs Pet Food

TRANSPORT

Network Rail

LEISURE

Bourne Leisure



OUR PEOPLE

Our entire workforce is employed directly.

They have great experience and are highly skilled – all are coded in a variety of materials.

By investing heavily in training and providing high-quality career development opportunities, we retain a high level (95%) of our workforce, significantly above the industry average.

All on-site staff wear branded uniforms to make them easily identifiable and accountable.

The safety of our people and the environment in which they operate in is of paramount importance.

We commit large resources – financially and culturally – to make health and safety the top priority before any work begins.

By operating in controlled factory conditions, health and safety is significantly improved.

CASE STUDY
**DON VALLEY
ACADEMY**



HEADLINES

75%

of the plant room was made off-site

50%

reduction in the time taken to build, test and install the main plant room

DELIVERED

the skid-mounted plant room at the most convenient time for the contract

DEFECT

and snag-free installation due to the rigorous testing carried out in our specialist facility

KEY FACTS

Project title: Don Valley Academy
Location: Sheffield
Client: Oasis Community Learning

Contractor: BAM Construction
Value: £125,000
Duration: 8 weeks

HOW WE DID IT



This was a fast-track project that saw us working to a non-negotiable deadline as the academy had to open for the new school year in September.



Our Building Services division was delivering the M&E for the scheme and its deadline was reduced by 50% to just 40 weeks.



To help meet this tight schedule, the client recognised the important role we could play in saving valuable time

We worked closely with G&H Building Services' designers and recommended prefabricating as many of the services as possible to not only speed up the programme, but to create space on-site for other trades who were also working to a deadline.

delivered to site was defect-free. This allowed for a quick connection and installation on-site, saving time, space and improving quality.

Our involvement also minimised the amount of hot works welding on site, which improved safety.

Thanks to the rigorous checking and re-testing regime carried out in our purpose built facility, the skid-mounted plant we

It took just three weeks to build, test, deliver and install compared to six weeks if traditional methods had been used.

Our work played an intrinsic role in the deadline being met and the scheme handed over on time and on budget.

In total, we made 75% of the plant room off-site.

CASE STUDY
**SELBY: CHP ENERGY
 GENERATION STOR**



HEADLINES

20 MEGA WATT

combined heat and power on-site energy generation STOR

90%

of the site's pipework fabricated off-site

10 TONNES

of structural steel and stainless pipe works made in our specialist facility

**EIGHT X
 18"**

bespoke stainless steel flue pieces among the large-scale fabrications made and delivered



KEY FACTS

Project title: Selby CHP: Energy Generation Facility STOR
 Location: Selby, North Yorkshire

Value: £580,000
 Duration: 20 weeks

HOW WE DID IT



We fabricated and installed all the components required for this industrial scale, purpose-built CHP on-site energy generation STOR facility.



We assembled a 16-strong team of engineers, welders, site supervisors and project managers to deliver the scheme that had been pre-designed by the client.

Our works included fabrication, off-site checking, delivery, installation, (including various crane lifts), connection and on-site testing.

The five-month-long scheme demonstrates our capacity on large scale projects as the site has the potential to generate 20 Megawatts of energy in just seven minutes.

Additionally, we fabricated the equivalent of one mile of LTHW and oil lube lines for the gas fired turbine engines.

A high level of planning and liaison with the client's project team ensured the works were delivered ahead of schedule and defect-free.

Given the facility's industrial size, large individual components were made bespoke in our factory, such as eight, 18" diameter flue pieces and a 12" gas main that was 120m long.

We installed over 10-tonnes of steel pipework and in total, 90% of the pipework was prefabricated in our facility.



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