

SHJ

**MEDICAL GAS
SPECIALISTS**

DELIVERING LEADING INNOVATIONS

Medical Gas Installation Maintenance & Innovation



Real Time
Diagnostics

AI
Innovation

FL₂



Resilience &
Reliability

Energy
Saving

During the entirety of this project, SHJ adhered to their schedules, didn't compromise the hospital's medical air supply, and all staff acted in a professional and helpful manner. I couldn't be happier with SHJ's commitment to this project and would definitely work with them again.

- Nigel Watkinson, Estates Manager –
Scarborough General Hospital

SOME OF OUR CUSTOMERS



Royal Brompton & Harefield
NHS Foundation Trust



Cambridge
University Hospitals
NHS Foundation Trust

The ROYAL MARSDEN
NHS Foundation Trust



Chelsea and Westminster Hospital
NHS Foundation Trust



Buckinghamshire Healthcare
NHS Trust



Barts Health
NHS Trust



Royal Berkshire
NHS Foundation Trust



Circle Health Group



The Hillingdon Hospitals
NHS Foundation Trust



Imperial College Healthcare
NHS Trust



East Sussex Healthcare
NHS Trust



GIG
CYMRU
NHS
WALES

Bwrdd Iechyd Prifysgol
Betsi Cadwaladr
University Health Board



Doncaster and Bassetlaw
Teaching Hospitals
NHS Foundation Trust



East Suffolk and
North Essex
NHS Foundation Trust



Oxford University Hospitals
NHS Foundation Trust



The Newcastle upon Tyne Hospitals
NHS Foundation Trust

Healthcare Supplier of the Year 2021

About SHJ

Founded in 1967, SHJ is a leading supplier of medical gas pipeline systems and services and a market leader in remote AI monitoring and energy-saving technologies.

Winner of Healthcare Supplier of the Year 2021, we have been delivering leading innovations to NHS and private sector healthcare providers across the UK for over 50 years.

We invest heavily in R&D and cutting-edge innovations to remain at the forefront of our industry.

WHAT MAKES SHJ DIFFERENT

We are committed to building **strong, long-term relationships** with our customers and have been serving the UK healthcare industry since 1967.

If you are short on space, our unique containerised medical gas plant rooms offer hospitals a **quick, flexible solution** to their MGPS needs and an economical alternative to commissioning new building work.

Our engineers are directly employed by us and are experts in their field. They pride themselves on building a deep understanding of your site and Medical Gas Plant System (MGPS) to provide a **superior level of service**.

Our market-leading customer portal (**K'nect**), puts all **plant management data** at the customer's fingertips. Accessed from any device, 24/7. It makes proving compliance with statutory requirements, fast and simple.

SHJ only uses the highest quality medical gas plant and equipment. You can rely on our products now, and far into the future, and this **enhanced reliability** provides **great value for money**.

We invest heavily in R&D to remain at the forefront of our industry.

Our confidence in our plant is reflected in our long warranty length, and we offer a **5 year 'no quibble' guarantee** on all SHJ branded equipment.

SHJ offers a faster speed of supply than many of our competitors, meaning we can get your MGPS up and running **quickly and efficiently**.

Installation

Our medical gas installation service includes:

- Pipework for new and upgrade projects
- Medical vacuum plant
- Medical air plant

We plan each installation carefully, ensuring that our work causes minimal disturbance to hospital routines and is co-ordinated with the work of other site contractors.

We always strive to maintain a fully operational MGPS while carrying out work and can supply a range of temporary solutions to prevent patient care being disrupted during plant upgrades.

- Manifolds
- Medical gas alarm systems
- Anaesthetic Gas Scavenging Systems (AGSS)

Our installations are fully tested at each stage and upon completion, are certified in accordance with the requirements of HTM 02-01, ISO 13485 and ISO 9001.

Our long-term relationships with a variety of suppliers ensures competitive rates for all items of MGPS plant.

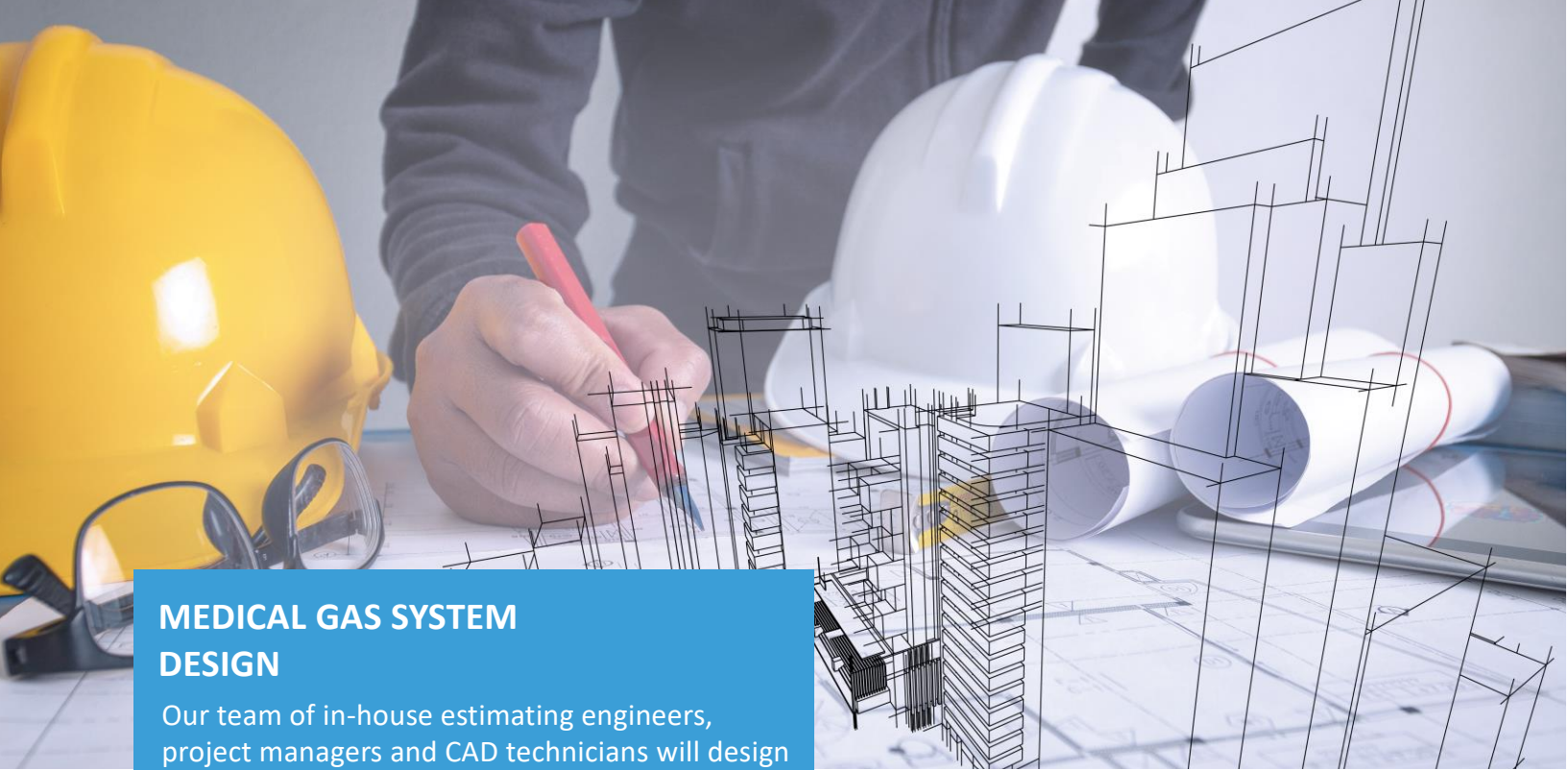
We supply and install a wide range of medical gas alarm systems, including our own brand (Evolution), which offers a 24/7 remote, multi-site monitoring and alert service.



LABORATORY GASES

We install the infrastructure for laboratory gases (nitrogen, helium, carbon dioxide, methane and mixed gas), vacuum plants and compressed air systems in research labs, using either copper or stainless-steel

pipework. We also take care of all associated plants, such as cylinder cages, gas detection sensors with automatic shutoffs and sounder beacons.



MEDICAL GAS SYSTEM DESIGN

Our team of in-house estimating engineers, project managers and CAD technicians will design your entire MGPS, for your refurbishment, upgrade, or new build.

Based on your planned usage and hospital layout, our design team will generate diversified flow calculations for each medical gas required. We will then recommend appropriate plant specifications to achieve the most efficient and reliable system. We also produce isometric drawings that can be incorporated into your Building Information Modelling system.

This is followed by a detailed project proposal and quotation, which sets out all the plant, pipework, materials, and labour needed. It addresses the site-specific requirements for installations and provides a detailed cost breakdown for the completed project.

EXPERT PROJECT MANAGEMENT

We have over 50 years of experience co-ordinating bespoke projects in both NHS and private healthcare establishments. From receipt of initial enquiry through to commissioning and final handover, our highly experienced installation team provide our customers with all the technical support they need.

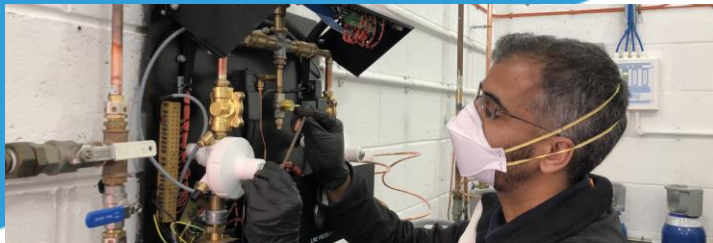
Our dedicated project managers are on hand for every project, overseeing it from conception through to completion. They will manage the entire project ranging from item replacements to the planning, design, installation, testing and on-going maintenance of a complete hospital MGPS. We can work directly with customers or in a supplier capacity with a contractor or sub-contractor.

Our project management services include:

- Detailed site and plant surveys
- As-fitted drawings with AutoCAD facilities
- Up to date asset registers
- Leading or directing engineering teams
- Planning and managing internal and external communications
- Undertaking Principal Contractor duties under CDM regulations
- Monitoring project progress against agreed milestones
- Preparing operation and maintenance manuals and as-fitted drawings
- Conducting post-project reviews
- Assistance with proving compliance
- Providing an Authorised Person (AP) for MGPS in the absence of their regular AP or where there is no directly employed AP onsite.

Maintenance

SHJ has over 50 years' experience in providing a full range of maintenance services including both fully-inclusive planned preventative maintenance and reactive options.



PLANNED PREVENTATIVE MAINTENANCE (PPM)

Our quarterly, bi-annual and yearly PPM programmes are based upon best practice and manufacturers' recommendations and cover whole systems, not just individual pieces of equipment.

Our PPM programmes are tailored to suit our customers' exact needs and include examination, testing and checking of medical gas plant, pipework, manifolds, valves, terminal units, fittings and alarm systems in accordance with the requirements of HTM 02-01. Once completed, any further works are quoted for, and we issue a complete report which is viewable on our online portal (K'nect), from any device, 24 hours a day, 7 days a week.

PLANT SERVICING

Plant servicing extends from routine care and checks in line with manufacturer's recommended service intervals, to a complete strip down and rebuild. We can also provide forecasted plant replacement schedules from condition summaries and data logging statistics. We hold an extensive range of MGPS plant and only use genuine original equipment, manufacturer spare parts and consumables.

WEB-BASED MEDICAL GAS DATA MANAGEMENT PORTAL

- Real-time plant and alarm monitoring 24/7
From any device, anytime, anywhere

Fully bespoke for each customer, it is tailored to your specific MGPS and site configuration. The encrypted data is available 24 hours a day from any browser, and helps you prove compliance with statutory regulations quickly and easily.



Depending on your contract, this will include:

- Invoices and quotes
- Asset register
- KPI compliance data
- Plant diagrams
- Safety certificates
- Insurance certificates
- Permits to work
- Comprehensive details of PPM visits
- Faults logged during past service visits and due dates of future service visits.

K'nect is FREE to all customers with a maintenance contract.

We have been a customer for SHJ for just over year, they are carrying out the medical gas PPM to a high standard and always go above expectations to aid in compliance. SHJ have also installed a new air and vacuum plant, which was completed on a tight schedule, and accommodated complex shutdowns to meet the needs of the hospital.

James Hutchinson, Head of Estates – Doncaster NHS Trust

Nationwide Coverage



MEDICAL GAS TRAINING

As experts in our chosen field, SHJ are ideally placed to support and deliver training for healthcare professionals engaged in maintaining and operating MGPS.

Much of what we teach our own staff and the experience they have gained is of value to personnel responsible for the maintenance and operation of MGPS on site.

We benefit from close working relationships with key suppliers, which enables us to offer training programmes relating to specific items of plant or equipment.

Working with accredited training providers, we help our clients to determine their specific learning needs and identify the most appropriate programmes, and provider, to match those needs.

Training can be provided in our dedicated Training Centre, at the client site or in authorised and fully approved training establishments.

PLANT HIRE

Need to hire a plant in an emergency, temporarily or on a semi-permanent basis, we can help. In an emergency, we can deliver, connect and get the replacement plant into service within hours of your call.

Whilst in use, we take care of the maintenance of the plant following industry practice and in accordance with the manufacturer's recommendations. It's not just our customers we can help. We provide emergency support to any hospital, based on need.

EMERGENCY SERVICES

SHJ responds to medical gas emergencies 24 hours a day, 7 days a week, 365 days a year.

Our nationwide backbone of engineers ensures we meet all emergency callouts, and our guaranteed call-out response time (to site) is within 4 hours of a call. The combination of experience and high stock levels ensures that our first-fix rates are high.

Our engineers are supported by a dedicated spare parts department, holding substantial stocks of components and spare parts for all medical gas system manufacturers, including compressors, dryers, controllers and AGSS, meaning that we can usually repair or replace faulty equipment very quickly.



Cutting Edge Innovations

SHJ is leading the industry in harnessing the power of 21st century communication technologies to implement AI-driven techniques of medical gas plant control.

Real-time diagnostics allow for ever-smarter predictive maintenance and energy saving measures - vastly increasing a system's productivity and efficiency.



Our market leading products include:



The first and most advanced cloud-based medical gas data management portal in the industry. 24/7 real-time plant and alarm monitoring, from any device.



Our intelligent plant control system providing fully automated control, ensuring medical gas plant is safe, reliable and working at maximum efficiency.



Our medical gas alarm monitoring system which offers a 24/7 remote, multi-site monitoring and alert service.



Our oxygen flow rate and line pressure monitoring and alerting system.

Accreditations

As a business, we understand how important industry accreditations are and constantly strive to improve our products and services.



Our standards comply fully with the requirements of HTM 02-01: Medical Gas Pipeline Systems and we are a Company Affiliate Member with The Institute of Healthcare Engineering and Estate Management (IHEEM).

We hold Constructionline Gold, Alcumus SafeContractor, Alcumus SafeContractor SafePQQ and CHAS accreditation.

We operate a quality management system which shows that we comply with the requirements of ISO 9001:2015. We are also certified for ISO 14001:2015 for our Environment Management System and ISO 13485:2016 for Medical Devices, which is the most accepted global

standard of its kind, ensuring the devices in our medical laboratory are safe, effective and delivered to a high standard.

All our engineers are directly employed by us and fully trained to Competent Person (MGPS) level, with some trained to AP (MGPS) and quality control level. They are all DBS-checked. They also undergo continuous in-house product training, verified by our Reset membership.

We are Awarded Suppliers for both the NHS London Procurement Partnership and the NHS North of England Commercial Procurement Collaborative.



NHS London Procurement Partnership
Building, Engineering and Maintenance Services Dynamic Purchasing System



Estates Maintenance & Engineering Services

NHS
Shared Business Services



Testimonials

SHJ have maintained the piped medical gas systems in 53 of our hospitals and decontamination units for the past 3 years. I have been very satisfied with the level of general support, the quality of service and the standard of reporting received. Their response has always been excellent even through the difficult times caused by the COVID 19 pandemic. We have developed an excellent working relationship with the SHJ team.

Steve Buchan, Group Chief Engineer - The Circle Health Group

SHJ have been maintaining the Trust's equipment for 40 years. I'm more than happy with their levels of service. They are conscientious, 100% committed to any work that they undertake, and nothing is too hard for them. I always recommend that they tender for any job that arises within the Trust and am happy to recommend them to anyone.

Gerry Vella, Estates Manager - The Royal Marsden Hospital

SHJ have the technical knowledge and access to suppliers that was invaluable. We never had problems getting people on site. We have a very good working relationship that's been developed over a considerable period of time. They are almost part of the furniture, and add real value to what we do with medical gases.

Shane King, Head of Estates Operations - Imperial College Healthcare NHS Trust

SHJ took on a complicated scheme that combined last minute instructions with a tight time scale. They rose to the extreme challenge, and accomplished it in their customary professional manner.

Wycombe Hospital

Great company, very knowledgeable and always on hand for support and assistance. We have been customers of SHJ for more than 2 years. Could not be happier with their service and responsiveness to our clinic needs. Highly recommend!

Roksolana Mykhalus - Happy Kids Dental, Chelsea

I have worked with SHJ for more than 20 years, and they have never failed to deliver every project on time and to budget. The quality of workmanship and expertise is second to none. They always add vital detail to design, and long term viability to an installation. Their strategic approach to each project is an example to others.

Ian Svenson, Estates Management Consultant – Healthcare Estates Management

Excellent service and technical support. I have been working with SHJ for nearly ten years now. Highly recommended.

Radek M, Estates Manager – Hammersmith Hospital

From when I joined the project as AP for Eastbourne DGH, I found that SHJ were very good with their planning and communications. With regular site meetings, they followed their planned timeline, and their staff were professional, polite and helpful.

Peter Paine, Estates Officer - East Sussex Healthcare NHS Trust

We were extremely impressed with your technician's knowledge, deportment, and professionalism. He remained calm and confident, and he is a credit to his profession and to your company.

Estates Officer - Mid Essex Hospital Services NHS Trust

Having worked with SHJ for over 20 years, I would like to take this opportunity to say how innovative they have been in their design and installation works. Their staff have always been outstanding and go above and beyond when attending to emergencies. I would have no hesitation in recommending this company to any NHS organisation, or private healthcare company.

Ron Bryant, Estates Manager – Charing Cross & St Mary's Hospital

Having used SHJ for many years, they are in my opinion leaders in the medical gas industry. They have a vastly experienced team of skilled engineers and management, who have always been there when I have needed them. Whether it be to consult on project installations, or last minute call outs, they are always on the end of a phone 24/7. I would recommend SHJ to anyone who is looking for a reliable and trustworthy partner to work alongside in the medical gas industry.

R Ventura, Estates Manager – Chelsea & Westminster Hospital

On reflection communication was the dominant aspect to the successful scheme. The project team listened and understood the requirements of the Trust from both an engineering and sustainability aspect.

Ian Clayton, Senior Specialist Engineering Officer - The Newcastle upon Tyne NHS Foundation Trust

Your Medical Gas Our Responsibility

- ◆ Medical Gas system design
- ◆ Installations
- ◆ Refurbishments & upgrades
- ◆ Planned Preventative Maintenance
- ◆ Plant Servicing
- ◆ Emergency plant hire

Real-time web based medical gas data management
AI driven intelligent plant control and predictive maintenance
Medical gas alarm monitoring and alerting
Oxygen flow rate monitoring and alerting

Nationwide coverage 24 x 7 x 365
4 - hour emergency response time
5 year no quibble guarantee
Fully HTM 02-01 compliant

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