



PROTECT YOUR POWER, PROTECT YOUR PATIENTS

IPU protects your emergency diesel generators, ensuring the reliability of your critical power and safety of everyone on-site. We have years of expertise fighting fuel contamination, harmful emissions and providing reliable engine starting.

**YOUR BACK-UP EMERGENCY
GENERATORS ARE ONE
THING YOU SHOULDN'T
HAVE TO WORRY
ABOUT**

CRUCIAL EXPERTISE FOR CRITICAL APPLICATIONS.



KEEP CLEAR

PROTECT YOUR POWER, PROTECT YOUR PATIENTS

You understand the importance of back-up generators. They're always there in the event of a mains power failure. The lives of your patients depends on them.

We know the complexities of a Healthcare site, and that the most critical systems that rely on back-up power include:

- life support systems
- monitoring systems
- fire prevention and sprinkler systems

But maintaining your back-up generator infrastructure is more than just keeping fuel clean and dry. With Clean Air Zones and further legislation coming into force, the air quality on healthcare sites is being scrutinised more than ever.

IPU has been working with hospitals for over 10 years. Our on-site team are experienced at dealing with the delicate nature of a NHS or Private Healthcare facility. We can navigate around site, causing no disruption to the facilities team, staff or patients.

We know that healthcare trusts and sites are always under pressure to save. You need to make sure that funds are spent wisely. That's why we have a solution and service plan for every budget.

The staff at healthcare facilities are always there to hold our hands. Let IPU take care of your critical power.

Get in touch and we will conduct a free sample of your fuel to give you a view of its condition.

OUR SOLUTIONS RANGE FROM:

■ Fuel Sampling

Sampling is an inexpensive way of learning the condition of your fuel.

IPU recommends that three fuel samples are taken from every tank: top, middle and bottom to get the most accurate picture of your fuel condition.

IPU will sample your fuel and can instantly analyse it with our DieselCheck Portable Fuel Analyser.

We can then analyse it in-house or at an independent laboratory and provide a detailed report on the results. We'll talk you through the findings and recommend your next steps.



■ OFTEC Surveys

No matter what the fuel you are storing, it is crucial to look after the fuel tank infrastructure and keep it in good condition.

Every site that stores diesel needs an annual OFTEC inspection.

IPU's fuel team is fully OFTEC qualified so can advise you of potential issues found with building and fire regulations.



■ Fuel Cleaning

Fuel cleaning is essential for the supply of your generators and fire pumps. IPU's dedicated fuel cleaning team have a large fleet of cleaning rigs, designed and built in-house by the IPU team.

Our high flow-rate systems generate turbulence within the fuel storage tank. This technique disrupts the pockets of contamination that build up in low turnover tanks and forces contaminants into the cleaning systems.

Our field team have years of experience cleaning fuel, and we have been to almost every type of site. They are supported by in-house project managers, service coordinators and an engineering team to ensure every eventuality is considered and every job goes smoothly.

Fuel is left clean, with both solid and water contaminants removed.

■ Diesel Defence Fuel Polishing

Diesel Defence fuel polishing units ensure your fuel continues to exceed ISO4406 and EN590 standards months and years after our Fuel Cleaning team have left your site.

They keep your fuel clean by combining cutting-edge filtration and circulation techniques with unbeatable flow rates.

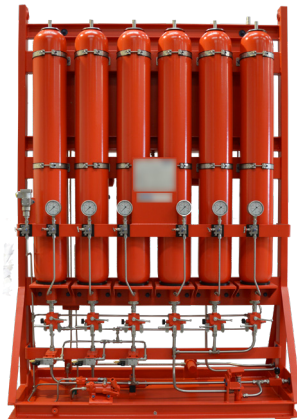
One, two or three-stage filtration removes water, particulate and microbial contamination down to 1 micron when necessary.

The EKO Fuel Polishing system with Kapture Technology is a perfect package of high-performance, superior intelligence and great adaptability without the hefty price tag.



■ Engine Starting - Hydraulic and Air Systems for Fire Pumps

A fire pump in correct working order can mean the difference between life and death. IPU's hydraulic and air starting systems guarantee reliable start-up by using pressurised hydraulic fluid or air to crank the engines on the fire pumps. They're tough, low maintenance, safe for use in hazardous areas and extremely reliable.



■ Emissions Gas Testing & Emissions Reduction

Due to the delicate nature of a healthcare site, which often sit within Clean Air Zones, there is a responsibility for the welfare of your staff and patients to reduce emissions on-site.

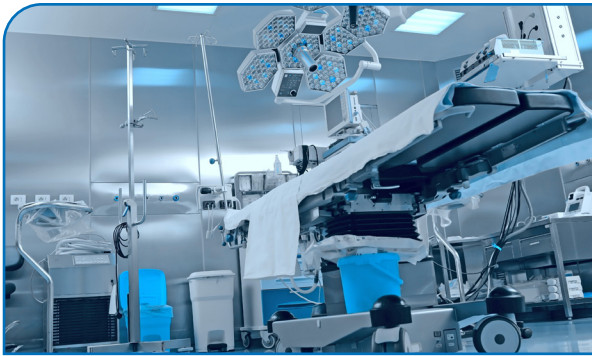
As a first step, IPU's gas testing service will generate accurate and certified emissions data for submission to the Environment Agency for permitting purposes.

Installing our Selective Catalytic Reduction (SCR) systems and Diesel Particulate Filters (DPFs) can reduce NOx emissions up to 100% and particulate matter by 95% which is far below even the most stringent Emissions Limits Values (ELVs).



CASE STUDY

KENT & CANT. HOSPITAL



Problem

Concerns were raised about the quality of the fuel used to power the hospital's generators. IPU's DieselCheck service found that the fuel stored in all 6 tanks was heavily contaminated with high levels of water and solid particulates.

Challenges faced

- IPU's DieselCheck identified extremely high levels of water and solid particulate contamination including wax, resins, organic and other debris.
- Each of the 6 fuel tanks were in different locations.

Solutions delivered

- IPU's Fuel Cleaning service cleaned both the fuel and tanks simultaneously without taking the generators offline.
- IPU supplied Diesel Defence fuel polishing units to ensure the fuel stayed within EN590 and ISO4406 standards.

" When we saw the results of our fuel tests we were concerned as reliable power is so critical to our hospital. IPU has been excellent in restoring our diesel and providing solutions that will protect our fuel in the future. **"**

Estates Department | Kent & Canterbury Hospital

CASE STUDY

GOOD HOPE HOSPITAL



Problem

IPU identified that the hospital's diesel was heavily contaminated, putting critical power at risk. It contained solid particulates such as colloid carbon - a substance that can clog filters and cause poor combustion.

Challenges faced

- IPU's DieselCheck test showed that the 7 storage tanks were all suffering from particulate contamination.
- Each of the tanks were in different locations.

Solutions delivered

- IPU's Fuel Cleaning team restored the fuel to EN590 and ISO4406 standards without requiring man-entry and without taking the generators offline.
- IPU supplied 5 Diesel Defence polishing units to keep the fuel clean.

" Clean, dry fuel is so important for our backup power systems. When we saw the results of our fuel test we knew we had to act. **"**

Estates Department | Good Hope Hospital

TRUSTED KNOWLEDGE. TAILORED SOLUTIONS.

How well you understand a problem defines how well you solve it. Speak to an IPU technical specialist about fuel polishing and, after asking some astute questions, we'll provide a tailored solution you can trust - backed by years of industry experience and engine know-how.



More details at www.ipu.co.uk

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