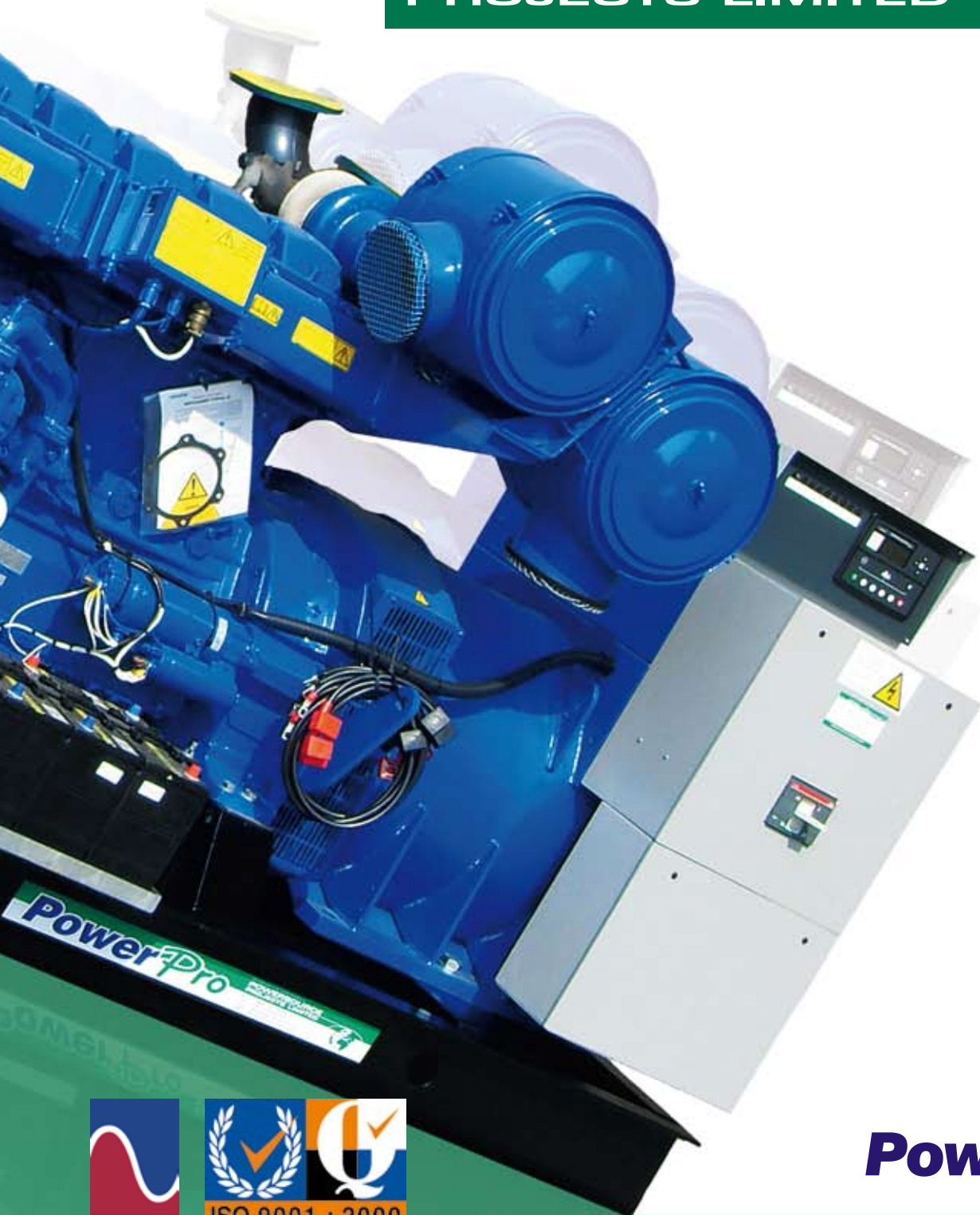
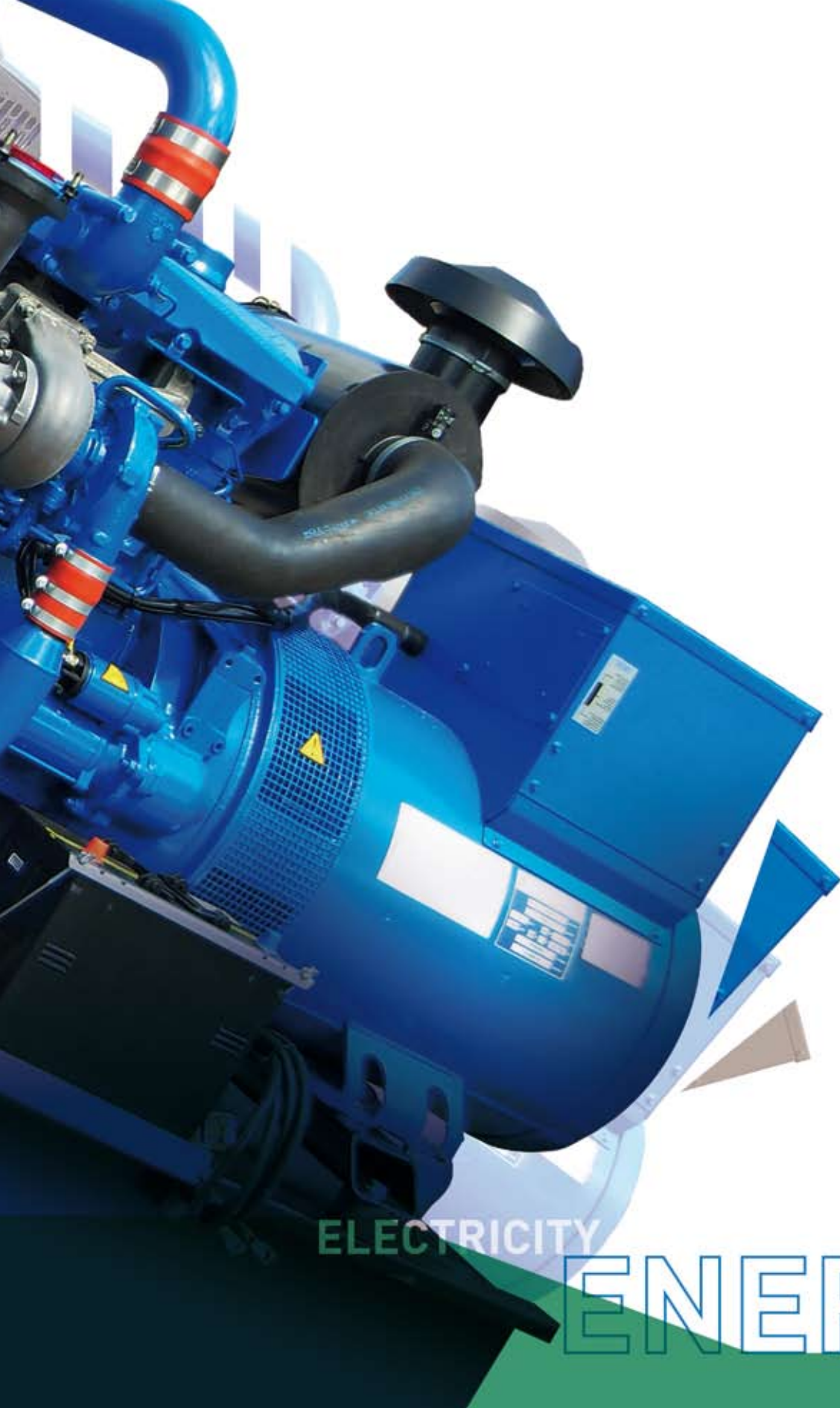


POWERSOURCE PROJECTS LIMITED



PowerPro





ELECTRICITY

ENERGY

RELIABLE. RESPONSIVE. REASSURING.

At Powersource Projects,
we value and support our customers.

We offer a reliable solution to unstable power supplies and erratic national grid systems that put our customers operations at risk. Commercial and technical considerations ensure our clients recognise and appreciate the reliability and durability of our power solutions.

The PowerPro range of generators are founded on the concept that quality should surpass all other buying criteria. We only use high quality major components from Western Europe and the US – to ensure our clients benefit from the full international warranty offered by these renowned manufacturers. Other suppliers may seek to reduce pricing by using components sourced from factories building under licence or market specific. In using them end clients run the risk of a lack of available warranty or after-sales support.

In fact over the years, many of our dealers and distributors have returned to us time and time again. They appreciate our long term commitment to providing a quality product and after-sales support.

At Powersource Projects we seek to give customers peace of mind and enable them to focus on their core business or organisation – free from the worry of power supply disruption.

CARING. COMPETENT. CONFIDENT.

As our name suggests, at Powersource Projects we specialise in supplying power generation equipment, control switchgear, ancillary equipment and parts. We work with and represent a wide range of internationally-renowned engine manufacturers such as Perkins, Volvo, Deutz, Scania and MTU. They are complemented by our matching them to market leading products from Stamford Newage (CGT), Mecc Alte and Leroy Somer alternators.

The packaging of the PowerPro range is then finished with a full AC / DC control solution from simple key start panels with analogue instruments and gauges to digital LCD microprocessor panels with scrollable displays that can even interface with the modern engine CANBUS controls.

And as you would expect from a business of our reputation, we are assessed and accredited to ISO9001. We are also a full member of AMPS – the Association of Manufacturers of Power Generating Systems.

Powersource Projects – diesel driven.....
people powered!!

As well as supplying the equipment and spare parts, our experience and knowledge of overseas markets means we can give clients across the globe:

- Fast delivery
- Reductions in communication and banking costs
- Minimised documentation
- Extensive choice from our vast product library database for both generators and parts
- Greater security in shipment
- A degree of customisation for certain power generation equipment
- Power supply solutions that take into account their local operating conditions
- Dedicated technical support and after-sales care

When our Thai associates enquired if Powersource could supply 2 x 2000 kVA prime powered sets each with ATS (Automatic Transfer Switch) within only four weeks, we were able to secure the necessary guarantees and commitments from component suppliers to accept this prestigious contract.

The largest Perkins engine currently available, a 4016-TAG2 rated at 2000kVA prime duty 50Hz, provided the motive power coupled to a twin bearing Stamford Newage PMG excited brushless alternator.

The package was built on time to specification and complemented with a free-standing ATS using 4 pole 3200 Amp rated ABB motorised air circuit breakers.

Our role did not end there. We arranged special equipment flat racks, custom made tarpaulins, heavy duty strapping and heavy lift transport to move this valuable consignment to the port to catch the earliest vessel to Thailand.

POWERPRO PERKINS POWERED 2 X 2000 kVA **SUPPORTING BANGKOK AIRPORT**

_Perkins 2000 kVA



STABLE. SAFE. SECURE.

PowerPro Generating Sets

Our PowerPro range of generators are all built using tried, tested and trusted components. These enable us to guarantee that we meet reliability and durability objectives. All the units we supply are fully load tested prior to despatch using resistive load banks (switchable in 1 kW increments) and test certificates are issued when requested.

Whilst majoring on the European 50 Hz electrical specifications, we are also able to offer generators built with 60Hz systems too – our data sheets are available to suit either market requirements.

The quality of our generators means you will invariably find them protecting and securing the operations of many key strategic locations around the world, from private residences, embassies and offices to factories, airports and hospitals – to name but a few.

We have standard build units available for fast deliveries, but can also customise a machine in terms of finished colour, automatic start/stop systems, multi-set synchronising, acoustic/weather protecting canopies and road-tow trailers, all to suit the end clients preferences or technical objectives.

POWERPRO PERKINS POWERED GENERATOR RANGE



(Example Shown: Perkins 30 kVA + canopy)



(Example Shown: Perkins 250 kVA)



All PowerPro generating sets are designed for arduous operation under the harshest conditions using tried, tested and trusted components.

We welcome the chance to put forward detailed proposals or proformas for the supply of standard or customised power packages.

A comprehensive data sheet for each of our engine ranges is available in hard copy, by e-mail or downloadable from our website. This sheet enables the client to better understand the specification of the engine, the performance and the shipping dimensions/weight.

As can be seen from the accompanying pictures, our PowerPro tailor-made range allows us to take a standard product and tailor it to suit the clients' requirements.

This can involve acoustic treatment to meet current EC standards or indeed even lower noise breakout. It is important for the client to recognise that no canopied genset can ever be completely silent and that noise reduction is logarithmic. For example a reduction from 85dBA @ 1 metres to 75 dBA @ 1 metres reflects not a 12% reduction as simple mathematics would suggest but rather a 1000% reduction!

POWERPRO DEUTZ POWERED GENERATOR RANGE



(Example Shown: Deutz 60 kVA)

POWERPRO SCANIA POWERED GENERATOR RANGE



(Example Shown: Scania 400 kVA)

In areas of stable mains supply, it is practical to consider an AMF solution whereby the generator control system can monitor the utility. In the event of failure of one or more phases, or a voltage swing that takes it outside the acceptable operating limits, the generator will receive a start signal. If required, we can also provide a separate ATS (Automatic



Transfer Switch) using either contactors, breakers or a motorised switch to effect a controlled transfer between utility and genset and back - once the utility returns to a stable condition.

In many larger industrial applications, it is likely that a factory will have a dramatically varying load where various manufacturing machines are switched on and off, according to production process systems etc. Rather than using a single large generator it can be better to consider



POWERPRO VOLVO POWERED GENERATOR RANGE



**VOLVO
PENTA**

[Example Shown: Volvo 500 kVA]

POWERPRO MTU POWERED GENERATOR RANGE



mtu

[Example Shown: MTU 1000 kVA]

a group of small rated gensets that can synchronise and load share automatically to provide a flexible output. This can considerably save wear and tear of the engine, diesel fuel consumption and also allow for a certain level of power availability - even when a generator is taken off line for service or repair.



Generator service companies, utility companies and even military operations may require a mobile solution so that power can be taken to a remote site or to replace a unit under service or repair. We are able to offer a range of basic trailers with single or close coupled twin axles and hydraulically activated overrun brakes or even air brakes on larger units.



REPAIR. REVITALISE. RESTORE.

Spare Parts

Many clients also come to us for consumable or repair parts either for our own PowerPro sets or for systems that have been purchased directly from other manufacturers or via local agents and dealers.

Over the years we have carefully built up our stores stockholding of fast moving parts, complimented by our direct access to most major component suppliers extensive inventories of parts and products. We also have contacts to obtain parts that have been made obsolete/NLA by the engine or alternator manufacturers.

Our total commitment to customer service and support, complemented with rapid response to enquiries and speedy dispatch of orders, has led us to become a favoured supplier within the domestic and export power generation industry.

We are authorised agents and dealers for a great many of the global engine, alternator and control/instruments suppliers. For ease of understanding our product range and to better understand the full scope of our abilities, please refer to the suppliers logos shown on page 21.

MECHANICAL PARTS



[Example Shown: Perkins Spares]

Powersource Projects Limited are accredited to ISO 9001 and are full members of AMPS (certificates are available on request). We take pride that our name has become synonymous with first class service and supply of genuine parts.



The global market is awash with copy or will fit parts that will, at best, not perform to full requirements and at worst can seriously damage the engine. It also follows that any warranties are forfeit, if during the warranty period, the original parts are not used.



[Example Shown: Donaldson filters]

ALTERNATOR PARTS



[Examples Shown: Assorted alternator parts]



[Examples Shown: Assorted AVR's]

All the parts that we offer are genuine i.e. direct from the original manufacturers. In some cases where the parts are NLA (No Longer Available) it may be possible for us to work with the original part manufacturer to supply the identical item

We operate the latest secure computerised parts ID systems and can often provide technical assistance to enable parts to be correctly identified and fitted.



If the client can provide the part number we can quote accordingly. If part number is not available we shall require the exact engine type and serial number to ensure that the correct part is offered and supplied.

As with mechanical parts the alternator parts market suffers from clone or copy AVR's finding their way into machines.

Whilst it would be wrong to deem all such items as useless and dangerous, there has never been a more appropriate adage than "you get what you pay for".

CONTROL SYSTEMS



(Examples Shown: Assorted instruments and controls)



(Examples Shown: Deep Sea Electronics range of modules)

Relative to the cost of the parts, a small saving on a replacement non genuine AVR, has the potential to damage a generator beyond economic repair or result in loss of voltage control that could damage clients' equipment.



We stock a full range of genuine AVR's (Automatic Voltage Regulator) and RSK (Rectifier Service Kits) and can generally obtain other parts eg wire wound components on short leadtimes.



FOCUS. FLEXIBILITY. FACILITATE.

Generator Components

These days, duty and tariff structures along with local regulations often prohibit the importation of a complete finished generator. Likewise local labour and overhead recovery rates can make a significant difference to the assembly costs per man hour.

In response to this changing market, we have identified and established strategic alliances with suppliers and stockists to give our genset assembler clients access to a single source for all the major and ancilliary components. We stress this is done in such a way as to ensure the integrity of global warranties and our established OEM (Original Equipment Manufacture) agreements.

Offering effectively a 'one stop shop' approach, we can quickly respond to an assemblers requirements and ensure they have the right component at the right time in order to complete their work. This also gives them greater flexibility in their management of their cashflow and project commitments.

From a set of AVMs, to panel instruments and meters all the way through to a matching engine/ alternator monoblock, we are here to help!

GENERATOR COMPONENTS



[Example Shown: Perkins & Volvo generator engines]



[Examples Shown: Stamford Newage (CGT) & Mecc Alte alternators]

Quality is our watchword and we only work with suppliers that we are confident can meet our and our clients' expectations. Whether confirming the compound shore hardness of the AVM, the depth of a fuel tank fitting, the dbA reduction of the exhaust silencer or the materials used in canopy door furniture, our suppliers are innovative and knowledgeable leaders in their respective fields.



We stand ready to assist with all enquiries. Our aim is to be a true one-stop shop for all your power generating requirements.



EASE. EXPERIENCE. EXPERTISE.

Offshore buying facility / Procurement.

Many of our customers find the Powersource service and support ethos to work so well for them that they request to use our knowledge, acumen and facilities to handle the purchase and shipment of a wide range of other equipment and materials.

They can rest secure in the knowledge that we can handle their procurement quickly, professionally and effectively.

In some overseas markets our clients may suffer delays or punitive pricing due to obstructive local agents, lack of local stock or confusion as to whether an offered product is indeed "genuine"! At this point Powersource can offer to step in to handle the business.

From luxury car parts for Royal vehicles, fleets of Mack Trucks, to regular shipments of process chemicals, container handling equipment and even the latest technological gadgets – we have seen it all!! This is further evidence that Powersource go further to help our clients support their clients...



POWERPRO DEUTZ POWERED 15 TO 150 kVA SUPPORTING YEMEN TELECOMS



In past years Powersource has supplied over 150 units through our local dealer for installation at exchanges and remote GSM sites all over the territory of Yemen.

Operating mainly in dual mutual mode, Deutz air and water cooled engines have provided stable and reliable power to keep the sites operational in harsh conditions.

Special panels, designed to suit the tender requirements, have ensured precise switching between sets on a time programmable rotational basis and returning to standby mode if sites have mains utility connection.

Powersource has also supplied sets to GSM operations in Nigeria, Liberia, Gambia, Uganda, Kenya, UAE, Pakistan and Sri Lanka and other countries where we have supplied gensets via main or electrical project contractors.



POWERPRO PERKINS POWERED 500 kVA SUPPORTING SOUTH AFRICAN MINE SITES



In 2008 Powersource were privileged to succeed in our bid to supply standby power modules to provide back up for mine site administration facilities.

Despite a massive variance in the sites likely requirements, we recommended a uniform power module with a synchronising control system set up for "plug and play" so the client could match together the requisite number of units to achieve the required power.

For better performance and load acceptance, the generators had an upgraded excitation system – PMG (Permanent Magnet Excitation). We also provided an additional fuel/water separator to handle the local extremes in temperature that result in condensation. This can be highly detrimental to the fuel injection system.

The whole package was then acoustically treated with modified exhaust discharge and all necessary health and safety labelling and documentation to satisfy local legislation and practise.





MANAGEMENT. MOVEMENTS. MONIES.

Logistics and documentation.

Operating in a truly global market economy as we do, over the years we have come to develop a detailed understanding of foreign currencies, international trading standards, shipping procedures and inspection formalities.

We are able to work with payment terms that suit the market conditions and opportunities including letters of credit, cash transfers and guarantee backed account facilities.

Our knowledge base of the individual markets in which we operate, (which is continually developing to respond to the latest local legislative changes), ensures we repeatedly deliver a consistently reliable and responsive service.

As members of our local Chamber of Commerce, we are able to handle legalised documents, Certificates of Origin and documents that need to pass through the relevant country's UK embassies.

We prepare our own commercial documents to suit the agreed contractual terms and the INCOTERMS of shipment.

As appropriate, we liaise with the paying bank to ensure correct documents are submitted or where a Letter of Credit is not involved, we can send documents directly to the buyer.

Correct documents must be complemented with effective logistical movements. We have developed excellent and long-standing contacts with the major air and sea carriers and international courier networks.

This enables movement from the smallest emergency part of less than half a kilo up to multiple container movements booked on a single vessel. Depending upon the weight and even the end location e.g. landlocked counties, we are able to offer fast air cargo connections to almost all destinations.



At Powersource Projects, we are delighted to work in partnership with world leading suppliers.

If you require a solution to any power supply problem, we'd be very happy to hear from you and do our best to help solve it. For further information on the PowerPro range of generators and spare parts please contact us as below

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