

# Core capabilities

We design and develop new equipment, contract for availability and capability, and provide managed equipment services. We manage over 33,000 UK government assets.



Generators, interface units, distribution modules and cables as used by the UK MOD

## Development and design of high specification power generation & distribution systems:

Our experienced engineering team consists of electrical and mechanical engineers, project managers and ILS (Integrated Logistics Support) specialists. The team are highly skilled with experience designing many different types of special, highly specified military power systems and packages. In addition our team of dedicated support engineers provide all aspects of in-service equipment management to ensure availability of power.

A comprehensive range of equipment support services are offered and tailored to individual customer requirements (see the support services section for more details). Our core services include a 24/7 technical helpdesk, spares provision and servicing of equipment, engineering support for legacy and third-party equipment, as well as warehousing and logistics.



Production of Auxiliary Power Units for Armoured Fighting Vehicles

**The Future Power contract for the UK MOD demonstrates the following capabilities:**

- In-house design and manufacture of new diesel generator and power distribution equipment.
- Contractor logistics support for over 28,000 items of UK MOD owned (Government Furnished) generation and distribution equipment with associated spares inventory.
- Demonstrated ability to maintain & support third party power distribution equipment.
- In-house asset management using MOD “JAMES” (Joint Asset Management & Engineering Solutions) software.
- Level 4 repairs for operationally fatigued and damaged equipment undertaken at RRDGS facility.
- Equipment safety case management (including third party) using MOD eCASSANDRA software.
- Provision of full integrated logistics support including creation / update of Army Equipment Support Publications (AESPs) and user training courses.
- Contracted under target cost incentive fee arrangements with annual cost certificate.
- Provision of dedicated customer 24/7 helpdesk.
- Post-design services engineering support for legacy/third-party equipment.
- Adoption / reverse engineering of supply chain required to support third party equipment.



Generators ready for despatch



Central to our ability to provide systems that meet harsh military specifications is our experience in modifying commercial off the shelf diesel engines. The most suited Commercial off-the-shelf (COTS) engine for the application is selected and we then apply our expertise to upgrade ancillaries and dressings eg, fuel and electrical systems, bracketry and sensors.

**Technology & developments:**

Variable Speed Permanent Magnet technology (VSPM) has been a basis of our power generation systems. This technology provides power dense, efficient and reliable electrical power systems. These are operationally flexible and easily deployable, making them ideally suited for effective expeditionary missions.

Innovative technologies are being evaluated and developed so that we can continue to provide our customers with power generation efficiencies, to incorporate renewable technology, energy storage and enhanced service offerings.



Engine modification for a naval application featuring dual sheathed fuel lines