

Refurbished power supply

Rejuvenating and supplying previously owned packages

energy

Rolls-Royce recognises that the supply of previously owned packages, that have been returned to 'as new' condition, may suit a customer more so than a new unit. We have been repurchasing good quality used packages for some time and refurbishing the equipment at dedicated facilities. During this process we undertake a complete equipment assessment to ensure that the latest modifications are incorporated into the re-work.

In the rapidly deregulating power generation sector, a growing number of Independent Power Producers (IPPs) are looking to establish fast-track generating capacity. The installation and commissioning time associated with traditional power plant development can prove too lengthy for the needs of the typical IPP.

'Previously owned' Avon compressor sets have been re-engineered for installation on an FPSO, for use offshore Brazil



A range of modifications can be incorporated into the refurbishment

Fact Sheet



Refurbishing equipment at dedicated facilities

Our 3MW to 30MW range of refurbished power systems can be readily configured to the operating frequency and fuel preference of power producers throughout the world. Where environmental concerns are the prime driver behind a project, our award-winning Dry Low Emissions combustion technology can also be incorporated into the scope of the refurbished package.

We can undertake and complete such a wide range of system refurbishments for the energy sector thanks to our totally focused approach to the process.

We carry out our refurbishment work in dedicated centres of excellence staffed by the necessary engineering, project management and technical experts to breathe new life into mature and previously owned equipment.

Typical 501 refurbished generating set

Gas turbine

501-KB or 501-KB5

ISO power rating

3.8MW

Gearbox

Single reduction, parallel offset

Bearing RTDs, seismic vibration transducers

Generator

Air-cooled enclosure

Brushless rotating exciter, stator and bearing

Electrical configuration

13.6 kV, 3 phase, 60 Hz, 4734 kVA, 0.8 PF

Fuel system

Dual fuel, natural gas and liquid

Lubrication system

Single system, synthetic turbine oil

Onboard sumps, offboard air fin/fan type cooler

Control system

Programmable Logic Controller based sequencer

Automatic synchroniser, isochronous and droop load controls

Application

Continuous duty, 8,000 hours annually

Disciplined project management ensures completion on time



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