

Spring 2017 two Woodward control system retrofits completed on offshore GE LM2500 gas turbines

Spring 2017 VBR has completed two Woodward control system retrofits on GE LM2500 gas turbines operated by a major Oil & Gas company and located offshore in the North Sea.

The actual installation & commissioning of these control systems onsite at the platform has been "plug & play" as a result of extensive factory testing with a tailor-made digital GT engine model.

The availability of this tailor-made digital GT engine model also provides opportunities to apply predictive health monitoring on existing and older gas turbines.

This will support extension of service intervals and total engine life by means of data driven condition based maintenance.



What are the benefits of a VBR gas turbine control system retrofit?

- Fully open & accessible gas turbine control systems
- Multiple available choices for hardware & software
- Full factory testing with a tailor-made digital GT engine model
- Plug & play installation & commissioning onsite
- Integrated advanced predictive health monitoring capabilities
- Enables data driven condition based maintenance on GT engines
- Supports extension of service intervals and the total life of GT engines
- Very cost effective compared to OEM or other third party retrofit alternatives
- Supported by education & training for the onsite operation & maintenance staff



VBR GAS TURBINE CONTROL SYSTEM RETROFIT INFORMATION

Gas turbines supported for retrofits

GE	: LM6000, LM2500/+, LM1600 (SAC & DLE)
Nuovo Pignone	: PGT25/+ (SAC & DLE)
GE	: Frame 6B, Frame 7E, Frame 9E (SAC & DLN)
Rolls-Royce	: Avon, RB-211, Spey
Siemens	: SGT-100, SGT-200, SGT-400, SGT-600, SGT-700
Solar	: Centaur, Mars, Saturn
Ruston	: Cyclone, Tornado, Typhoon
Alstom	: GT10/B

GT control systems suited for a VBR retrofit

Woodward NetCon, Micronet
Speedtronic Mk4, Mk5, Mk6, Mk6e
Allen-Bradley
Turbotronix
Rustronic

VBR Turbine Partners headquarters & warehouse

Industrieweg Oost 6 info@vbr-turbinepartners.com
6662 NE Elst (Gld) Phone: +31(0)88 010 9000
The Netherlands www.vbr-turbinepartners.com

VBR Turbine Partners UK service office

Woodhall, Westoby Lane vbr.uk@vbr-turbinepartners.com
Barrow Upon Humber, Nth. Lincolnshire Phone: +44 1469 533 337
DN19 7DJ United Kingdom www.vbr-turbinepartners.com



TURBINE PARTNERS
support beyond expectation

Positive supplier performance feedback of a VBR Woodward control system retrofit in FPAL / Achilles

VBR Turbine Partners have completed two Woodward control system retrofits on GE LM engines located at an offshore platform of a major Oil & Gas company in the North Sea.

After completion of this retrofit project the customer has submitted a supplier performance evaluation into the FPAL professional procurement system for the Oil & Gas Industry.

The outcome of this FPAL supplier performance evaluation on the VBR Woodward control system retrofit:

Excellent

- Service Quality
- Project Management
- Organisation
- Installation & Commissioning
- Competence & Training

Good

- Product Quality
- Planning & Delivery
- Health & Safety
- Environment
- Innovation & Improvement
- Commercial Management
- Customer Interfaces
- Facilities
- Documentation

(No evaluation outcomes reported in the categories "adequate", "mediocre" or "poor".)



For more information about high quality VBR gas turbine control system retrofits contact controls@vbr-turbinepartners.com

VBR Turbine Partners headquarters & warehouse

Industrieweg Oost 6 info@vbr-turbinepartners.com
6662 NE Elst (Gld) Phone: +31(0)88 010 9000
The Netherlands www.vbr-turbinepartners.com

VBR Turbine Partners FZCO Middle East service office

PO Box 17573 vbr.me@vbr-turbinepartners.com
536, Techno Park Phone: +971 563 758 975
Jebel Ali, Dubai, UAE www.vbr-turbinepartners.com

Independent ISO 9001/2015 certified O&M improvement experts for GE LM gas turbines, auxiliaries & packages LM1600 | LM2500 | LM5000 | LM6000