

SELECTED TECHNICAL REFERENCE

GE10 Gas Turbine Major Overhaul

A controlled example of whole-engine inspection, repair, component recovery, replacement, precision reassembly and operational verification for a mature industrial gas turbine.



THE CHALLENGE	THE RESPONSE	THE RESULT
An extended-service engine required a complete condition assessment. Compressor, combustion and turbine sections showed deterioration requiring a disciplined repair-or-replace decision process.	The engine was stripped, cleaned and inspected. Serviceable parts were restored within controlled limits; unsuitable components were replaced before rotor balancing, reassembly and verification.	The programme demonstrates an integrated route from incoming assessment through precision rebuild and test readiness, supported by controlled technical records and continuing service capability.

Wider experience

This case study represents one example of the wider gas-turbine overhaul and component-repair experience available through Drivetec Energy and its specialist engineering network. Supporting capability extends across multiple industrial gas-turbine platforms. Further technical references may be reviewed with qualified customers, subject to confidentiality requirements.

CONTROLLED OVERHAUL ROUTE

From strip inspection to test readiness

01	Incoming assessment	Condition review, failure analysis and controlled work-scope definition.
02	Disassembly & cleaning	Structured strip, identification, protection and cleaning of assemblies and components.
03	Inspection & evaluation	Visual, dimensional and non-destructive inspection supported by engineering assessment.
04	Repair or replacement	Restoration of eligible parts and replacement of components outside approved repair limits.
05	Rotor & assembly control	Precision rotor work, balancing, controlled reassembly and alignment verification.
06	Verification & support	Borescope review, operational verification, documentation and continuing lifecycle support.

A deliberately concise public reference

Detailed repair criteria, process parameters, customer information, tooling data and proprietary technical records are not included in this publication. Controlled information can be discussed during technical qualification and under appropriate confidentiality arrangements.

Discuss a similar overhaul

Provide the engine model, location, operating history, known condition and required outage window. Drivetec Energy will structure the technical and commercial route for inspection, overhaul, exchange support or component supply.

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