

GE Energy

Motor Reliability Program

Benefits

- Increased motor reliability and availability
- Avoidance of unplanned failure
- Optimized efficiency and operating performance
- Reduced long-term maintenance and repair costs
- Reduced total ownership costs
- Extended equipment component life
- Minimal capital investment required

GE Energy, a leader in the motor industry, understands the costs associated with plant downtime. Because motors are a key link in production systems, maximizing the reliability and life-cycle of a motor can have significant financial benefits to plant operators. To help monitor and maintain the performance of your critical motors, GE Energy now offers the Motor Reliability Program.

This unique program combines two valuable services:

- Performance monitoring with GE's patented Condition Forecaster™ system
- Comprehensive maintenance and repair services

The Condition Forecaster system provides advanced notice of probable failures and statistically forecasts the remaining life of a motor. Using this in-depth information, GE Energy can proactively plan repair or replacement timing for critical process equipment, reducing downtime and improving the efficiency of asset management in your organization.

With limited capital investment required, the Motor Reliability Program includes a Condition Forecaster system for each motor specified in the service contract. GE also provides all necessary motor repair services, whether in-shop or on-site, in response to system alerts.

Condition Forecaster™ Monitoring

Condition Forecaster is a unique and easy-to-use monitoring system that analyzes industry historical motor data and predicts not only specific upcoming failures, but also the expected time before the failure occurs.

GE's patented, leading-edge Condition Forecaster technology offers significant advantages over other types of monitoring systems:

- Uses industry-standard monitoring system data collection such as mechanical, electrical, and ambient measurements.
- Analyzes information in conjunction with other historical data compiled by GE (database includes more than 40,000 maintenance activities to reference).
- Estimates motor residual life through multi-parameter regression analysis, Bayesian belief networks, and Weibull reliability curves.
- Takes advantage of the wide variety of continuous monitoring hardware that may already be in use at customer sites or supplied through other sources.

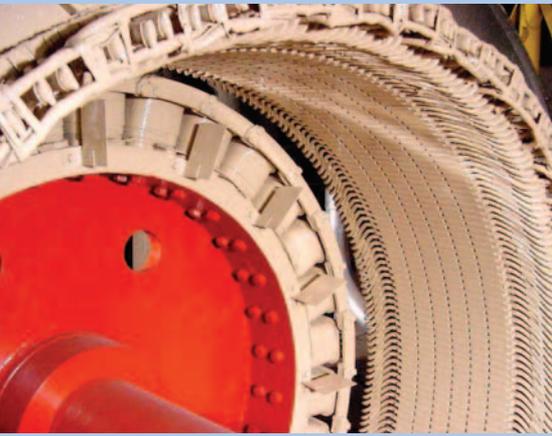
GE can set up Condition Forecaster in a stand-alone format or remotely monitor equipment status for you. The system sends alerts and time-to-failure estimates via phone, e-mail, or pager when components are under stress.



Applicability

This offering is applicable to any large AC motors (typically 500 HP or larger), often used in the following industries:

- Utility
- Pulp and paper
- Mining
- Steel industry
- Manufacturing



Motor Maintenance and Repair Services

Another important feature of the Motor Reliability Program is GE's expert motor maintenance and repair services. GE has been providing quality AC and DC electric motor service and repair for more than 50 years through our global network of service centers. We service equipment from many manufacturers and from a wide range of industries, including motors used in special applications.

You can trust trained GE experts to ensure that the correct materials and procedures are applied to provide the reliability, quality, and performance you require.

Our motor services include:

- Test and inspection
- Failure analysis and diagnostics
- Rebuilds and repairs
- Stator rewinds
- Coil manufacturing
- Insulation system upgrades
- Vacuum pressure impregnation (VPI)
- Replacement parts (exchange program)
- New motors
- Equipment management programs
- Engineering support with on-site field engineering available as needed
- Full on-site service capabilities
- Emergency response, 24x7

By offering an outstanding selection of service options from repairs and refurbishment to new units, GE can help you keep your operation "up and running" with experience you can trust.

Contact

To learn more about this offering, contact your GE Sales Representative or visit gerepairsolutions.com

