

# EASYchange<sup>®</sup>

## BRUSH CONDITION MONITORING



Cutsforth™ is on the cutting edge of brush holder technology, installing over 40,000 of the best-in-class brush holders on turbine generators worldwide. Now, with our **exclusive EASYchange<sup>®</sup> Brush Condition Monitoring**, Cutsforth™ offers an even better way to operate your generator's brush-type excitation:

- **Increases Safety**

- » EASYchange<sup>®</sup> brushes are safe and easy to change and clean; Brush Condition Monitoring (BCM) now makes the brush changes easy and predictable
- » The system reduces the time technicians spend interacting with collector rings, reducing potential injuries

- **Reduces Operating and Maintenance Costs**

- » BCM decreases the risk of ring fires from short brushes
- » Reduces O&M costs through more efficient manpower usage

- **Greater Manpower Efficiency**

- » Plants will have shorter and less frequent inspections freeing up technicians for other projects

- **Boosts Reliability**

- » Scheduling and planning for repairs and maintenance is easier with fewer surprise forced shutdowns due to collector ring maintenance

- **Lengthens Time Between Maintenance**

- » Maintenance can now be performed based on brush condition rather than a calendar

- **Improves Maintenance**

- » System delivers condition based alerts that allow for condition based maintenance, which saves time and money
- » Brush maintenance is tied to short brushes, not a calendar
- » The Monitoring system uncovers leading indicators for failure, such as imbalances load and high vibrations

- **Measures and Tracks Historical Data Trends**

- » Wear rate
- » Usable brush length
- » Vibration
- » Peak temperature

