

## **NEW INTEREST IN “OLD” UPS TECHNOLOGY**

### **Comparison of Static and Rotary UPS Systems Revisited**

The ever-expanding demand for clean, uninterruptible power for Data Centers, Financial Institutions, Healthcare Facilities, and Continuous Industrial Processes, has created a renewed interest in Rotary UPS systems to protect mission critical loads. In addition, the drive to lower infrastructure and energy costs, and utilize alternative energy sources, has uncovered new issues and opportunities in critical power protection.

Although Rotary UPS systems have been in use for nearly 40 years, the ever-changing technologies of static and rotary UPS, require regular evaluation to discern what best meets your needs for protecting mission critical loads. This presentation will provide a comparison of UPS topologies and technology configurations, review short term energy storage options, and highlight decision criteria and design considerations that show how this “old” technology can provide some new benefits to you or your clients.

### **AGENDA**

- A. Static and Rotary UPS Definitions and Topology Configurations*
- B. Comparison of UPS Technologies*
- C. Design Considerations*
- D. Comparison of Kinetic Energy Stores*
- E. Topics for Discussion*
  - a) Flywheel or Battery*
  - b) First Cost or Total Cost of Ownership*
  - c) RUPS or Static Application*
  - d) Medium Voltage and 400Vac*
  - e) Voltage and Frequency Stabilization for Alternate Energy Sources*