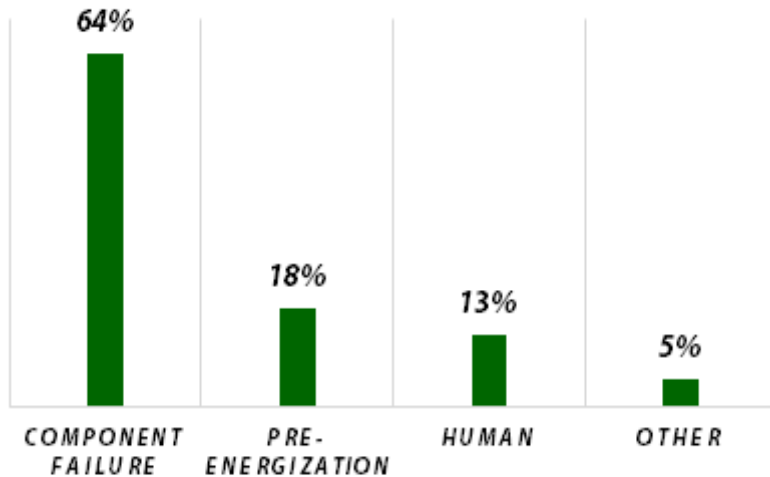


## Breaker Life Extension Upgrade (BLEU)

Always on. BLEU is extending the life of PowlVac® and Power/Vac® Medium Voltage circuit breakers.

### *Component failure is the top reason for breaker failure*



—US Nuclear Regulatory Commission. (2003). Common-Cause Failure Event Insights: Circuit Breakers.—

### *To prevent breaker failures:*

Powell has developed a breaker life extension upgrade program, this includes an extensive teardown, cleaning and inspection of the breaker; along with the installation of the latest technology upgrades. BLEU breaker work is performed at the Powell Factory Certified Service Center nearest you.

#### **Breaker:**

5kV to 38kV ANSI PowlVac® Circuit Breakers & 5kV to 15kV Power/Vac® Breakers

#### **Life:**

Prevents the need to replace circuit breakers, increases reliability and addresses the most common causes of breaker failures.

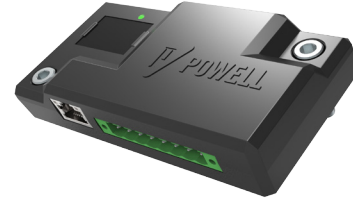
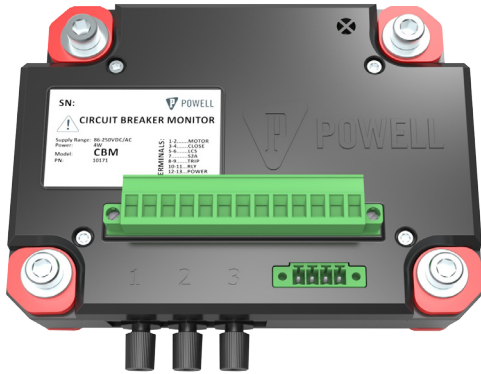
#### **Extension:**

Powell will fully warrant the circuit breaker for two years. A Loaner Breaker program is available to reduce any operational impact to your facility.

#### **Upgrade:**

Includes upgraded components and Powell's latest advanced technology, Circuit Breaker Monitor (CBM), capable of providing real-time circuit breaker data acquisition and diagnostics.





\*External IRIM Indication and Communication System sold separately\*

## BLEU UPGRADE PARTS

Powell Circuit Breaker Monitor (CBM) - Continuous onboard monitoring of operating coils, charging motor, trip/close timing, primary conductor temperature, mechanism operation, and environmental parameters. With an onboard memory capable of storing up to 2000 operations, CBM trending analysis helps to extend your maintenance intervals from costly time-based preventive cycles to the more economical condition-based predictive cycles. Combined with the optional Powell BreakerView™ software and cloud-based 24/7 monitoring packages, the real-time status and health of your power circuit breakers are never more than a few keystrokes away.

Based on evaluation the following components covered by the **BLEU** program may be replaced:

- Main Drive Shaft Assembly
- Operating Pushrods
- Wishbone Insulators
- Primary Trip Prop
- Trip/Close Coils
- Spring Charging Motor
- Auxiliary Switch
- Anti-Pump Relay Assembly
- Fly Wheel
- Spring Charging Hub
- Dashpot
- Limit Switch Assemblies

## Contact Us

[powellind.com](http://powellind.com)

### Texas Service Center

7232 Airport Blvd.  
Houston, TX 77061  
+1.713.944.6900

### Canada Service Center

10960 274 Street  
Acheson, AB T7X-6P7  
+1.780.948.3300

### United Kingdom Service Center

Ripley Road  
Bradford, West Yorkshire BD4 7EH  
+44.0.1274.734221

### Arizona Service Center

18395 South 186th Way  
Queen Creek, Arizona 85142  
+1.800.480.7273

### Louisiana Service Center

11662 Investor Ave. Suite A  
Baton Rouge, LA 70809  
+1.225.756.4972

### Ohio Service Center

8967 Pleasantwood Ave NW North  
Canton, OH 44720  
+1.330.966.1750

### Pennsylvania Service Center

3412 Progress Drive  
Bensalem, PA 19020  
+1.800.480.7273

### Singapore Service Center

350 Orchard Road  
#11-08 Shaw House  
Singapore, 238868  
+65.9662.5698

### Middle East Service Center

N419, Jebel Ali North Free Zone  
Dubai, United Arab Emirates 16961  
+971 4 8170215

### Bahrain Service Center

Road 2802, Block 428  
Al Seef, Bahrain  
+973 178 272 38