CIRCUIT ENERGY

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# How does Poor Power Quality affect your operation?

Power quality issues , from both outside and inside your facility , can be costly and disruptive . Short , typically under 240ms intermittent power supply failures from utility's auto fault re-closures often result in undesirable trips and process interruptions for sensitive equipment . Voltage fluctuations , unbalanced current , harmonics , poor power factor, and surge & transients also lead to unnecessary premature wear and tear on both your distribution network and equipment and can lead to potential penalties.

## Circuit Energy's Power Conditioning Devices can provide up to 5 major benefits in all types of facilities:

- **Intermittent Power Supply Failure Ride Through**
- **Guaranteed Energy Savings Through Reduction of KVA, KW & KWh**
- **Total Harmonic Distortion Reduction**
- **Transformer Overheating Minimization**
- **Power Factor Penalties Elimination**

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# Case Study

A dairy manufacturing facility in Southern Ontario had a poor power factor. Using a custom built Power Conditioning Device from Circuit Energy , the facility was able to improve its power factor , eliminate harmonics and address voltage fluctuations . The Power Conditioning system provided ride -through for voltage sags which reduced the number of power interruptions and led to an annual savings of almost $20,000. The facility is also enjoying far less maintenance downtime.

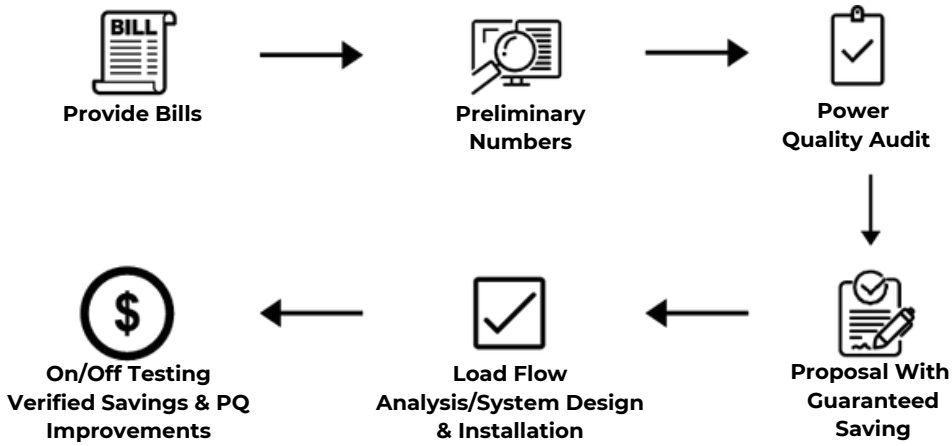
**Increased Machinery lifetime**

**Total Annual Savings: $19,251**

**Project Cost: $41,397**

**Simple Payback: 2.15 years**

## Power Conditioning Project Timeline:




1-866-895-4545

32 - 70 East Beaver Creek Rd.
Richmond Hill, ON, L4B 3B2

info@circuitenergy.ca