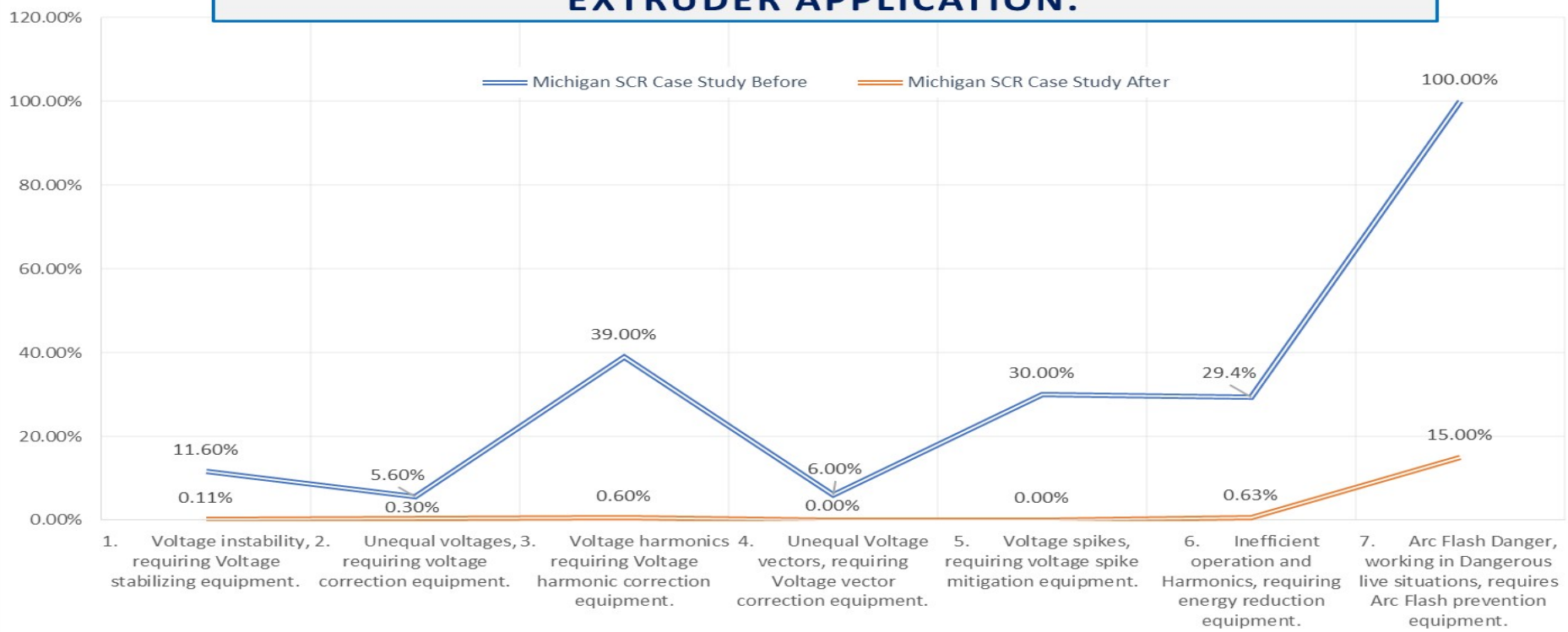
QUALITY POWER IS ACHIEVED
ENERGY COST IS REDUCED,
VOLTAGE QUALITY IS CORRECTED & RISKS ARE REDUCED.
VSGR WAS USED IN THIS MICHIGAN SCR DRIVE -DC MOTOR EXTRUDER APPLICATION.



PQ CASE STUDY 2

A Michigan extruder plant, with SCR / DC motor, was having recurring downtime caused by equipment failure. Capacitors and Drives were failing weekly, which caused other control issues & serious production problems.

Action items: *VSGR installed, 2. AmpTrap Filter removed, 3. Isolation Transformer removed.*

Results: Drives & Motors now run reliably, quietly & efficiently, with no more capacitor failures.

Every electric power system can be made reliable, reducing unplanned downtime, by removing those elements contributing to poor Power Quality.

For a Quality Power System these problems need to be corrected:

1. **Voltage instability,** *will contribute to unplanned downtime & operational cost.*
2. **Unequal voltages,** *will cause equipment faults & inefficiency. Downtime.*
3. **Voltage harmonics,** *will cause control malfunction, nuisance tripping. Downtime.*
4. **Unequal,** *Voltage vectors, will cause control problems lost setup. Downtime.*
5. **Voltage spikes,** *Will cause equipment failure and worse. Downtime.*
6. **Inefficient operation,** *Reduces profitability, by increasing energy cost.*
7. **Arc Flash Danger**, *working in Dangerous live situations. Risk Death, downtime & cost.*

Phaseback VSGR *is the only device that will solve all of these conditions* *when* connected to the power system.

Install ***Phaseback VSGR*** *on every Transformer!*

Most Arc Flash risks, caused by Flash-overs are eliminated. When single phase ground faults are not allowed to develop, experts estimate 85% of Arc Flash events are prevented.

Phaseback VSGR works hand in glove with the Electrical Relay /Protection scheme & personnel safety training, to provide the safest possible electrical system.

When designed with VSGR & other key components, the electrical system will be Safe, Efficient, Economical & Reliable, for Optimum Uptime.

Call me for a demonstration Cy Cates cycates@cycates.com www.cycates.com www.phaseback.com 4/6/2019