

# ProSeries POWERQUALITY

## Power Solutions: Mitigate downtime & lost production

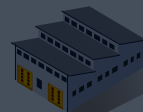


INDUSTRY  
SPOTLIGHT

# SAWMILLS **SAVE THOUSANDS** IN POWER CORRECTION



# OVERVIEW



## ProSeries POWERQUALITY

### STEP 1

Contact us to review & audit your electricity usage, the size of your operation, and measure your electrical consumption



### STEP 2

We customize a solution that is tailored to your specific needs and present you with a solution, a time line and tentative ROI



### STEP 3

We install your custom solution onsite and make sure that its all working as specified in our solution plan



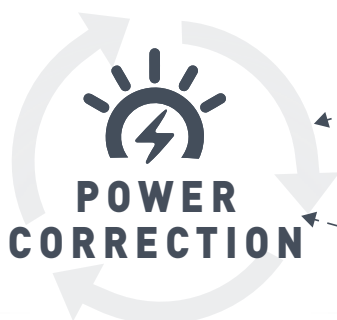
## Power Factor 300 kVAR System

### BENEFITS

- Power Quality lowers the temperature of motors by lowering the amount of amps needed to operate
- Power Quality is a must for all industries, large and small that have electricity usages
- Power Quality helps mitigate downtime and lost production for tripped breakers
- Robotics can cause flicker and brownouts causing damage to equipment and downtime
- Cleaning up the power at a plant – the electrical usage (kva) is lowered up to 35%

 **POWER FACTOR**

 **UNDER VOLTAGE**



**HARMONICS** 

**POWER FLICKER** 





# CASE STUDY

## Nothland Lumber

Our Team was engaged to conduct a comprehensive energy audit for Northland Lumber. During the audit, we discovered the sawmill was incurring \$148,000 annually in power factor penalties.

Subsequently, Northland Lumber requested an analysis of all their Motor Control Centers, which involved measuring five key areas. After gathering the necessary data, we met with the ownership group and presented our findings, along with a proposed solution to eliminate the \$148,000 penalty. Our analysis projected a return on investment within 13 months.

Given their upcoming major shutdown, Northland Lumber asked us to ensure the equipment was on-site and operational by the end of this period. We successfully delivered and installed the equipment within the shutdown time frame.

We conduct annual check-ups on all the equipment, and over the past four years, Northland Lumber has saved almost \$600,000.



### CUSTOMER RESULT

Northland has saved \$600,000 on "Power Utilities Penalties" over the last 4 years and takes advantage of our annual maintenance plan.

Northland Lumber was paying electricity penalties for many years

# CUSTOM POWER SOLUTIONS

# STATE OF THE ART TECHNOLOGY



Power Factor Correction opened cabinet

## ENERGY EFFICIENCY

We specialize in providing top-of-the-line power factor and electrical harmonics equipment tailored to meet the unique needs of industrial operations. Our state-of-the-art technology and electrical expertise, can help you achieve substantial energy savings, improve power quality, and enhance your bottom line.

Maximizing operational efficiency and reducing

costs are key priorities for any industrial company. Our cutting-edge power quality equipment solutions, are designed to address your high electrical bills and optimize your energy consumption.

Don't let high electrical bills and power quality issues hinder your industrial operations and profitability.



Custom solutions to enhance your electrical usage

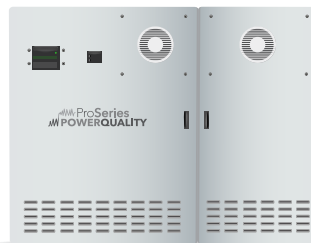
## Our Product Line of Customized Solutions

Each industrial facility has unique power quality challenges. We offer tailored solutions designed specifically for your business. Our team of experts will assess your energy usage patterns and design a comprehensive system that maximizes your electrical savings and minimizes many disruptions.



PROBLEM  
Over/Under Voltage

MITIGATION  
**SureVolt | Sag Fighter**



PROBLEM  
Power Factor & Harmonics

MITIGATION  
**Varset**



PROBLEM  
Power Factor & Harmonics

MITIGATION  
**ReactiVar**



PROBLEM  
Harmonics

MITIGATION  
**AccuSine**





# YEARS OF SUCCESS AND RESULTS

## Our Expertise

**Unparalleled Energy Efficiency:** Our advanced power quality solutions ensure that your electrical system operates at its highest efficiency. By optimizing the power factor, we reduce the amount of reactive power drawn from the grid, significantly lowering your utility bills.

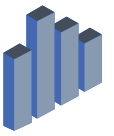


**Harmonics Mitigation:** Industrial operations often generate electrical harmonics that can cause a multitude of problems, including equipment failures, increased energy consumption, and excessive heat. Our electrical harmonics equipment effectively eliminates these issues, leading to improved system reliability and reduced maintenance costs.

Our solutions are customized for heavy production

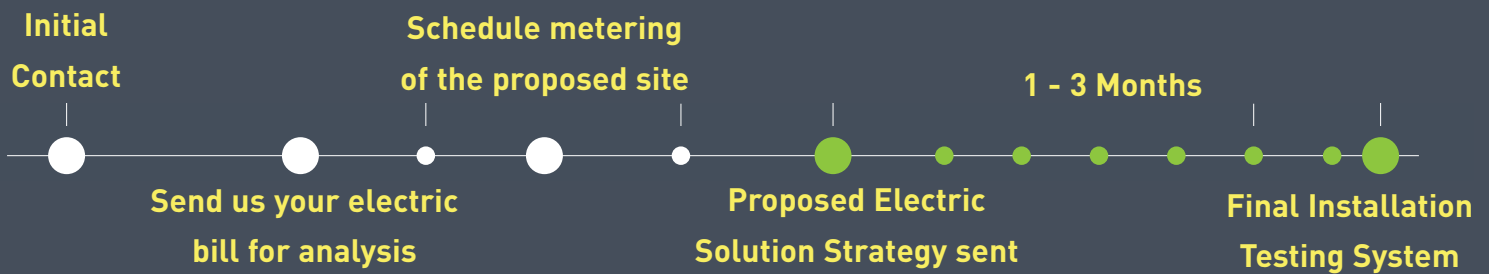
### MOTOR LOADS AT SAWMILLS

Some of the biggest draws on electrical consumption happens when large capacity motors have been running on large batch processing for hours, causing Power Factor and Harmonic problems. We can help you solve and help mitigate your electric bill



## SOLID INVESTMENT

Rapid Return on Investment: Investing in our power quality equipment is a smart financial decision. By reducing your energy consumption and improving the efficiency of your electrical system, you can expect to see a rapid return on your investment. Our solutions pay for themselves in the form of both significant energy savings and maintenance costs in a short period.



Reliable Support and Service: ProSeries Power Quality prioritizes the success of our clients. Our dedicated team of professionals is committed to providing exceptional customer service, from the initial consultation to ongoing technical support. We are always available to address any concerns or questions you may have and ensure that your power quality system continues to operate optimally.

Don't let high electrical bills and power quality issues hinder your industrial operations and profitability.

### SAWMILLS SUCCESS STORY: Bjornwood

Bjornwood, referred by Zavisha Sawmill, due to major daily downtime issues that were causing delays in supplying Zavisha with necessary pallets and wood shims for U.S. shipments. Bjornwood operates on a 200A, 240V single-phase service, which then goes through a power inverter to convert it to 240V three-phase to run their motors. The main issue was that the 200A breaker was tripping multiple times daily, resulting in half-hour downtimes and idle workers. We devised a plan and built a temporary unit over the weekend—a rare and swift turnaround. After installing the permanent unit, their load was reduced by 40%, allowing them to add more motors and increase production without further breaker issues. Despite the added motor load, their power bill decreased. A year later, the utility company upgraded their service to 400A, which they couldn't do the previous year. During this upgrade, Bjornwood requested another unit for their new saw line. We built and installed the unit, further solidifying our relationship with them.

Bjornwood requested an additional unit after having success with the first unit installed



# EXECUTIVE SUMMARY

## MAKING A DIFFERENCE AT SAWMILLS

Our electricians swiftly connected the equipment, completing the installation in just a few days.

Upon commissioning the units, we successfully reduced the harmonics to approximately 3%.

Our annual maintenance plans keep the newly installed equipment running at optimal efficiency.

## WE ARE HERE TO HELP YOU

To learn more about how ProSeries Power Quality can help your business reduce costs, enhance energy efficiency, and optimize power quality, contact us directly to learn more about our products.

Thank you for considering ProSeries Power Quality as your trusted partner in power quality solutions. We look forward to the opportunity to work with you and deliver tangible results that positively impact your company's bottom line.





# ProSeries POWERQUALITY

Your power quality partner



CONTACT US  
**TODAY**



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